OFFICIAL YEAR BOOK OF AUSTRALIA

No. 61, 1975 and 1976

Prepared under instructions from the Right Honourable the Treasurer by

R. J. CAMERON

AUSTRALIAN STATISTICIAN



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PREFACE

By the Constitution of the Commonwealth of Australia, the Parliament of the Commonwealth is empowered, subject to the Constitution, 'to make laws for the peace, order, and good government of the Commonwealth, with respect to . . . Census and statistics.' In the exercise of the power so conferred, a Census and Statistics Act was passed in 1905, and in the year following the Commonwealth Bureau of Census and Statistics was created. During the late 1960s and early 1970s it became increasingly evident that new statistical legislation was required to enable the Bureau to respond to the changing needs of Government. As a consequence, the Australian Bureau of Statistics Act, 1975 was enacted in mid 1975. The Act came into operation from 3 May 1976. The legislation established the Australian Bureau of Statistics (ABS) as the central statistical authority for the Commonwealth Government, the office of the Australian Statistician and the Australian Statistics Advisory Council (ASAC).

The first Official Year Book was published early in 1908. This is the sixty-first Official Year Book issued under the authority of the Commonwealth Government. The Year Book is the principal general reference work produced by the Central Office of the Australian Bureau of Statistics. It provides a comprehensive and detailed statistical review of all aspects of the economy and social conditions of Australia, and in addition contains descriptive matter dealing with Australia's history, geography, physiography, climate and meteorology, government, defence and repatriation services, and international relations.

In the various chapters of the Year Book, and in the special index which precedes the general index, there are references to special articles, background material and items of historic interest which have appeared in previous issues.

Most of the statistics contained in this volume relate to the years ended June or December 1975. More detailed statistics on subjects dealt with in the Year Book are available in the various annual reports published by the ABS, and more recent statistics are contained in the Digest of Current Economic Statistics (monthly), the Monthly Review of Business Statistics, and in other publications issued monthly, quarterly, half-yearly, or yearly.

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Australian Bureau of Statistics, Canberra, A.C.T. 2600. March 1976



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SYMBOLS AND OTHER FORMS OF USAGE IN THIS YEAR BOOK

The following symbols, where shown in tables, mean:

- n.a. -not available
- .. —nil or less than half the final digit shown, or not applicable
- p —preliminary—figure or series subject to revision
- r —figure or series revised since previous issue
- n.e.i. -not elsewhere included
- n.e.c.-not elsewhere classified
- n.s. -not stated
- m.-males; f.-females; p.-persons
- Break in continuity of series (where drawn across a column between two consecutive figures).

A blank space in a column of figures means that the figure concerned is not yet available.

The following abbreviations are used for the titles of the Australian States and Territories and Australia: N.S.W. (New South Wales), Vic. (Victoria), Qld (Queensland), S.A. (South Australia), W.A. (Western Australia), Tas. (Tasmania), N.T. (Northern Territory), A.C.T. (Australian Capital Territory), Aust. (Australia).

In general, the statistics in this volume relate to the States and Territories of Australia, i.e. they exclude particulars of the External Territories of Australia, which, however, are specifically dealt with in Chapter 30, The Territories of Australia. A few series elsewhere include particulars of Papua New Guinea because of the nature of the subject-matter—these series are indicated.

Yearly periods shown as e.g. 1975 refer to the year ended 31 December 1975; those shown as e.g. 1974-75 refer to the year ended 30 June 1975. Other yearly periods are specifically indicated. The range of years shown in table headings, e.g. 1901 to 1974-75, indicates the period covered, but does not necessarily imply that each intervening year is included.

Values are shown in Australian dollars (\$ or \$A) or cents (c) unless another currency is specified.

Reference numbers. In the introductory paragraphs to most chapters a list of relevant publications is shown. In each case the reference number is shown in brackets and this should be quoted when ordering Bureau publications.

Any discrepancies between totals and sums of components in tables are due to rounding.



METRIC UNITS AND CONVERSION FACTORS

| | | | Conversion Factors | |
|-------------------------|--|---|---|--|
| Quantity | Imperial unit | Metric unit | Imperial to Metric units | Metric to Imperial units |
| Length | inch (in) foot (ft) yard (yd) furlong (fur) mile | millimetre (mm) or centimetre (cm) centimetre (cm) or metre (m) metre (m) metre (m) or kilometre (km) kilometre (km) | 1 in = 25.4 mm 1 ft = 30.5 cm 1 yd = 0.914 m 1 fur = 201 m 1 mile = 1.61 km | 1 cm = 0.394 in 1 m = 3.28 ft 1 m = 1.09 yd 1 km = 4.97 fur 1 km = 0.621 mile |
| For navigation | | international nautical mile (n mile) | 1 ii mile | = 1852 m |
| Mass | ounce (oz) pound (lb) stone ton | gram (g) gram (g) or kilogram (kg) kilogram (kg) tonne (t) | 1 oz = 28.3 g 1 lb = 454 g 1 stone = 6.35 kg 1 ton = 1.02 t | 1 g = 0.0353 oz 1 kg = 2.20 lb 1 kg = 0.157 stone 1 t = 0.984 ton |
| Area | square inch (in*) square foot (ft*) square yard (yd*) prood (rd) | square centimetre (cm³) square centimetre (cm³) or square metre (m³) square metre (m²) square metre (m³) hectare (ha) | $\begin{array}{l} 1 \text{ in}^2 = 6.45 \text{ cm}^2 \\ 1 \text{ ft}^2 = 929 \text{ cm}^2 \\ 1 \text{ yd}^2 = 0.836 \text{ m}^2 \\ 1 \text{ p} = 25.3 \text{ m}^2 \\ 1 \text{ rd} = 0.101 \text{ ha} \end{array}$ | $\begin{array}{l} 1 \text{ cm}^2 = 0.155 \text{ in}^3 \\ 1 \text{ m}^2 = 10.8 \text{ ft}^3 \\ 1 \text{ m}^2 = 1.20 \text{ yd}^2 \\ 1 \text{ m}^3 = 0.0395 \text{ p} \\ 1 \text{ ha} = 9.88 \text{ rd} \end{array}$ |
| | acre (ac) square mile | hectare (ha) square kilometre (km²) | 1 ac = 0.405 ha 1 square mile = 2.59 km² | 1 ha = 2.47 ac 1 km ² = 0.386 square mile |
| Volume | cubic inch (in³) cubic foot (ft³) cubic yard (yd³) bushel (bus) | cubic centimetre (cm³) cubic metre (m³) cubic metre (m³) cubic metre (m³) | 1 in ³ = 16.4 cm ³ 1 ft ³ = 0.0283 m ³ 1 yd ³ = 0.765 m ³ 1 bus = 0.0364 m ³ | 1 cm ³ = 0.0610 in ³ 1 m ³ = 35.3 ft ³ 1 m ³ = 1.31 yd ³ 1 m ³ = 27.5 bus |
| Volume (fluids) | fluid ounce (fl oz) pint (pt) gallon (gal) acre foot | millilitre (ml) millilitre (ml) or litre (l) litre (l) or cubic metre (m²) cubic metre (m³) or megalitre (Ml) | 1 fl oz = 28.4 ml 1 pt = 568 ml 1 gal = 4.55 litres 1 acre foot = 1230 m ³ = 1.23 Ml | 1 mi = 0.0352 ft oz 1 litre = 1.76 pt 1 m ² = 220 gal 1 Mi = 0.811 acre-foot |
| Force | pound-force (lbf) ton-force (tonf) | newton (N) kilonewton (kN) | 1 lbf = 4.45 N 1 tonf = 9.96 kN | 1 N = 0.225 lbf 1 kN = 0.100 tonf |
| Pressure | pound per square inch | kilopascal (kPa) | 1 psi = 6.89 kPa | 1 kPa = 0.145 psi |
| | (psi) atmosphere (atm) ton per square inch | kilopascal (kPa) <i>or</i> megapascal (MPa) megapascal (MPa) | 1 atm = 101 kPa 1 ton/in ² = 15.4 MPa | 1 MPa = 9.87 atm 1 MPa = 0.0647 ton/in ² |
| For meteorology | (ton/in²) inch of mercury (inHg) | millibar (mb) | 1 inHg = 33.9 mb 1 mb = | 1 mb = 0.0295 inHg = 100 Pa |
| Speed For navigation | mile per hour (mph) | kilometre per hour (km/h) knot (kn) | 1 mph = 1.61 km/h 1 kn = | 1 km/h = 0.621 mph 1.85 km/h |
| Temperature | degree Fahrenheit (°F) | degree Celsius (°C) | $^{\circ}C = \frac{5}{9} (^{\circ}F - 32)$ | $^{\circ}F = \frac{9 \times ^{\circ}C}{5} + 32$ |
| Density | pound per cubic inch | gram per cubic centimetre | 1 lb/in ³ = 27.7 g/cm ³ | 1 g/cm ³ = 0.0361 lb/in ³ |
| | (lb/in³) | (g/cm²) = tonne per cubic metre (t/m²) | $1 \text{ lb/in}^3 = 27.7 \text{ t/m}^3$ | $1 \text{ t/m}^a = 0.0361 \text{ lb/in}^a$ |
| | ton per cubic yard | tonne per cubic metre (t/m²) | $1 \text{ ton/yd}^3 = 1.33 \text{ t/m}^3$ | $1 \text{ t/m}^3 = 0.752 \text{ ton/yd}^3$ |
| Energy | British thermal unit | kilojoule (kJ) | 1 Btu = 1.06 kJ | 1 kJ = 0.948 Btu |
| For electrical energy | therm | megajoule (MJ) kilowatt hour (kWh) | 1 therm = 106 MJ 1 kWh = | $1 \text{ MJ} = 9.48 \times 10^{-3} \text{ therm}$ = 3.60 MJ |
| Power | horsepower (hp) | kilowatt (kW) | 1 hp = 0.746 kW | 1 kW = 1.34 hp |
| Time | | second (s) minute (min) hour (h) | | n = 60 s = 3600 s |
| Frequency | cycle per second (c/s) | hertz (Hz) | 1 c/s = 1 Hz | 1 Hz = 1 c/s |
| Angular velocity | revolution per minute (rpm) | radian per second (rad/s) revolution per minute (rpm) | 1 rpm = 1.105 rad/s | 1 rad/s = 9.55 rpm |

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CHAPTER 1

DISCOVERY, COLONISATION AND FEDERATION OF AUSTRALIA

Early knowledge and discovery of Australia

The following paragraphs contain only a bare outline of the pre-history and of the more important facts relating to the early history of Australian discovery. A more detailed summary of the discovery of Australia may be found in Year Book No. 39 (see page 1) and earlier issues.

Pre-history

Man entered the Australian continent from the South-East Asian area during the last glaciation, some 30,000 years ago, when sea levels were lower than in recent times. Nevertheless these first migrations would have entailed sea voyages of at least some 60 kilometres. Settlement was well established at least 25,000 to 30,000 years ago, and by 20,000 years ago almost all the continent was inhabited.

The original Australians lived as hunters and gatherers, using tools of wood, bone and stone. The archaeological evidence indicates that originally there was a simple, pan-continental tool-making tradition characterised by stone core tools and scrapers used to make further tools of wood. This tradition persisted until 5,000 to 6,000 years ago, when a series of new influences became apparent. A range of more specialised and sophisticated small tools was added to the old technology. The dingo, the only animal domesticated by the Aborigines, also entered the continent at this time. These new influences never reached Tasmania, isolated for some 12,000 years by the post-glacial rising seas, where a few thousand Tasmanian Aborigines maintained the culture of the late Pleistocene period until the European settlement of the island.

The Aborigines probably achieved maximum exploitation of local resources within the limits of their technology. Population balance had apparently been attained long before European settlement, and anthropologists accept that there were at least some 250,000 to 300,000 Aborigines in Australia in 1788. They were divided into some 500 small groups, speaking a variety of languages and dialects. These 'tribes' were further divided into families or clusters of family groups; these 'bands' formed the basic self-sufficient economic unit, and ranged within territorial limits. Labour was divided between the sexes, the men hunting, while the women foraged for the roots, seeds and small animals which formed a basic part of their subsistence. When abundant food or water supplies were available, or when ceremonial obligations demanded, local groups would congregate; in leaner times they scattered. Ceremonial exchanges of goods at these gatherings led to their wide dispersal. Religious and ceremonial activities related to the land, were a vital part of Aboriginal life. There is evidence that they had developed the use of ochre as a ritual painting material as early as 25,000 years ago, while some form of ritual burial was also practised at this time.

The physical barriers of distance and aridity within Australia itself, were cause in part of the cultural isolation and linguistic diversity of its people. European exploration and settlement was for most Aboriginal societies their first contact with an outside culture. The impact of this settlement led rapidly to the disappearance of the traditional Aboriginal way of life in those areas where the colonists established themselves most successfully.

Terra Australis

Although references to an Austral land are found in the works of writers in the early centuries after Christ, and evidence appeared in maps, globes, and manuscripts from the Middle Ages onward, there is no definite evidence connecting this so-called *Terra Australis* with Australia. Cornelius Wytfliet's map of 1597, however, indicates roughly the eastern and western coasts of Australia, as well as the Gulf of Carpentaria.

Early discoveries of Australia

The Portuguese may have discovered part of the Australian coast before 1542, and it has been suggested that the Arabs may have come to Australia even earlier, though there is no evidence to support this theory. For all practical purposes, however, the coastal exploration of Australia may be taken as having begun with the Spaniards and the Dutch.

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In 1606 the Spaniard Quiros, on reaching the island that has retained the name of Espiritu Santo (the largest island of the New Hebrides group), thought he had discovered the great land of the south, and therefore named the group La Australia del Spiritu Santo. After leaving the New Hebrides Quiros sailed eastward, but Torres, his second-in-command, took a westerly course and passed through the strait that now bears his name. In all probability he sighted the Australian continent but no mention of it is made in his records. This voyage marks the close of Spanish activity in the work of discovery in the South Seas.

The Dutch discovered Australia when the Dutch East India Company sent the Duyfken from Bantam, Java, to explore the island of New Guinea. During March 1606 the Duyfken coasted along the southern shores of New Guinea and followed the west coast of Cape York peninsula as far as Cape Keer-Weer (Turn Again).

During the following thirty years there were nine visits by Dutch navigators to Australian waters; by 1636, through their efforts, the coast of Australia from Cape York westward around to the Great Australian Bight had been discovered.

In 1642 Abel Janszoon Tasman set out from Batavia to ascertain the extent of the great southern continent. He named Van Diemen's Land, imagining it to be part of Australia proper, and sailing north-easterly discovered New Zealand and returned to Batavia. In his second voyage in 1644 Tasman visited the northern coast of Australia, sailing round the Gulf of Carpentaria and along the northwest coast as far south as the tropic of Capricorn. This voyage of Tasman's may be said to have ended the period of Dutch discoveries, although there were subsequent visits by the Dutch to Australia (de Vlamingh in 1696 and Van Delft in 1705).

Discoveries by the English

In the meantime the English had made their first appearance on the Australian coast in 1688, when the north-westerly shores were visited by William Dampier, as supercargo of the Cygnet, a trading vessel whose crew had turned buccaneers. In 1699 he again visited Australia, in command of H.M.S. Roebuck, and on his return to England published an account in which a description is given of trees, flowers, birds, and reptiles observed, and of encounters with natives.

At the end of the seventeenth century it was uncertain whether Tasmania and New Zealand were parts of Australia or whether they were separated from it but themselves formed part of a great Antarctic Continent. Lieutenant (later Captain) James Cook's first voyage, though undertaken primarily for the purpose of observing the transit of Venus from Tahiti, had also the objective of ascertaining whether the unexplored part of the southern hemisphere was only an immense mass of water or contained another continent. In command of H.M.S. Endeavour, and accompanied by Sir Joseph Banks the botanist, Dr Solander the naturalist, Green the astronomer, draughtsmen, and servants, Cook, after observing the transit of Venus at Tahiti, turned towards New Zealand, sighting that land on 7 October 1769 in the neighbourhood of Poverty Bay. Circumnavigating the North and South Islands, he proved that New Zealand was connected neither with the supposed Antarctic Continent nor with Australia, and took formal possession thereof in the name of the British Crown.

Discovery of Australia by Captain Cook

On 20 April 1770* Cook sighted the Australian mainland at a place he called Point Hicks, naming it after his first-lieutenant, who first saw it. Coasting northwards, on 29 April 1770* he discovered Botany Bay, where he landed. Cook sailed along the coast in a northerly direction for nearly 2,100 kilometres until 11 June 1770, when the *Endeavour* was seriously damaged by striking a coral reef in the vicinity of Trinity Bay. Repairs occupied nearly two months, and the Endeavour then again set her course to the north sailing through Torres Strait and eventually anchoring in the Downs on 13 July 1771. In 1772 Cook was put in command of the ships Resolution and Adventure with a view to ascertaining whether a great southern continent existed. Having satisfied himself that, even if it did, it lay so far to the south as to be useless for trade and settlement, he returned to England in 1774. Cook's last voyage was undertaken in 1776, and he met his death on 14 February 1779, by which date practically the whole coast of Australia had been explored. The only remaining discovery of importance, the existence of a channel between the present State of Tasmania and the mainland of Australia, was made by Bass and Flinders in 1798.

^{*}Year Book No. 1 shows the dates of these events as '19th April' and '28th April' respectively. In Year Book No. 2 they have been changed to '20th April' and '29th April', and the following footnote inserted:

'1. Correct dates of Captain Cook's Log. After the 180° meridian of longitude had been passed, and owing to no allowance having been made for westing, the various log-books of this voyage are in error one day as to dates. Thus those in Captain Cook's Private log in his official log, in Gunner Forwood's, Pickergill's, Clerke's, Wilkinson's, and Bootie's Journals, in the Pallister copy of Cook's log, and in Wharton's publication, all need correction by adding one day to the date given: that is, the 19th should read the 20th, etc. The anonymous log, doubtless Green's, is erronously supposed by the author of the "Historical Records of New South Wales," to have been corrected for westing, see the footnote on page 269 therein. The facts are as follows:—What was known as "ship time" began a day earlier than under the present system of astronomical reckoning, that is to say, Jan. I began at noon Dec. 31. The "Astronomical day," however, was a whole day later than the ship's day: thus what would be assigned to the 24th in Cook's Journal would appear in Green's Journal as the 23rd. (See "Captain Cook's Journal," 1768-71, by Captain W. J. L. Wharton, R.N., F.R.S., London, 1893, preface pp. xii., xiii.). There can be no doubt as to the need of the correction in the dates, since on reaching Batavia the log reads:—"Wednesday 10th, according to our reckoning, but by the people here Thursday 11th." (Op. Cit., pp. 352-3.) Attention was drawn to this matter by Mr. P. de Jersey Grut in the "Argus," Melbourne, May 15, 18 and 22, 1907."

The annexation of Australia

Possession taken of eastern coast of Australia by Captain Cook

Although representatives of the nations mentioned in the previous section landed or claimed to have landed on the shores of Australia on various occasions during the sixteenth and seventeenth centuries, it was not until 22 August 1770† that the history of Australia was brought into definite political connection with western civilisation. It was on that date that Captain Cook took possession 'of the whole eastern coast, from latitude 38° S. to this place, latitude 10½° S. in right of His Majesty King George the Third', i.e. over only what are now the eastern parts of New South Wales, Victoria and Queensland.

Annexation of eastern part of Australian continent and Tasmania

Formal possession on behalf of the British Crown, of the whole of the eastern part of the Australian continent and Tasmania was not taken until 26 January 1788, when Captain Phillip's Commission, first issued to him on 12 October 1786 and amplified on 2 April 1787, was read to the people whom he had brought with him in the 'First Fleet'. The commission appointed Phillip 'Captain-General and Governor-in-Chief in and over our territory called New South Wales, extending from the Northern Cape or extremity of the coast called Cape York, in the latitude of ten degrees thirty-seven minutes south, to the southern extremity of the said territory of New South Wales or South Cape, in the latitude of forty-three degrees thirty-nine minutes south and of all the country inland westward as far as the one hundred and thirty-fifth degree of east longitude reckoning from the meridian of Greenwich, including all the islands adjacent in the Pacific Ocean within the latitudes aforesaid of ten degrees thirty-seven minutes south and forty-three degrees thirty-nine minutes south'.

Extension of New South Wales westward

On 17 February 1824 Earl Bathurst notified Sir Thomas Brisbane that he had recommended to His Majesty the dispatch of a ship of war to the north-west coast of New Holland for the purpose of taking possession of the coast between the western coast of Bathurst Island and the eastern side of Coburg Peninsula. Captain James J. Gordon Bremer of H.M.S. *Tamar*, who was selected for the purpose, took possession on 20 September 1824 of the coast from the 135th to the 129th degree of east longitude. On 16 July 1825 the whole territory between those boundaries was described in Darling's commission as being within the boundaries of New South Wales.

Annexation of Western Australia

An expedition under Major Lockyer, sent by Lieutenant-General Sir Ralph Darling, then Governor of New South Wales, to found a settlement at King George Sound, sailed from Sydney on 9 November 1826, landed at the Sound on 26 December following, and on 21 January 1827 hoisted the British flag. Captain Stirling, in command of H.M.S. Success, arrived at Sydney a few weeks after the departure of the expedition to King George Sound. He obtained the Governor's permission to visit Swan River with a view to seizing a position on the western coast and reporting upon its suitability as a place of settlement. Captain Stirling left Sydney on 17 January 1827, and on his return in the following April submitted a glowing report on what he described as a 'rich and romantic country', urging its occupation for the purpose of settlement. He left for England in July 1827, continuing his advocacy, notwithstanding much discouragement, with unabated enthusiasm. He was at last successful, the result being due mainly to the formation of an association of prospective settlers having capital at their disposal. He was appointed Lieutenant-Governor and with a party of settlers arrived at Garden Island, near the Swan River, in the ship Parmelia in June 1829. On the second of the preceding month Captain Fremantle, in command of H.M.S. Challenger, arrived and hoisted the British flag on the south head of Swan River, again asserting possession of 'all that part of New Holland which is not included within the Territory of New South Wales'. Thus before the middle of 1829 the whole territory now known as Australia had been constituted a dependency of the United Kingdom.

The creation of the several Colonies

New South Wales

In Governor Phillip's commission of 1786 the mainland of Australia was divided by the 135th meridian of east longitude into two parts. The earliest colonists believed that the present State of Tasmania was actually joined to the mainland, and it was not until 1798 that the contrary was known. In that year Bass and Flinders proved that it was an island by sailing through Bass Strait. The territory of New South Wales, as originally constituted (3,834,565 square kilometres, including Van Diemen's Land 67,897 square kilometres), and of New Zealand (269,000 square

kilometres), which may be included although Cook's annexation was not properly given effect to until 1840, consisted of 4,103,568 square kilometres. A further area of 1,341,971 square kilometres was added in 1825 when the western boundary was extended to 129th east meridian. The territory was subsequently reduced by the separation of various areas to form the other colonies, and at the time of the establishment of the Commonwealth the area of New South Wales was 803,863 square kilometres. Following the transfer of the Australian Capital Territory and an area at Jervis Bay to the Commonwealth in 1911 and 1915 respectively the area was further reduced to 801,431 square kilometres.

Lord Howe Island, which is a dependency of New South Wales, and for political purposes is included in one of the electorates of Sydney, is situated in latitude 31° 32′ south, longitude 159° 05′ east, about 800 kilometres east-north-east of Sydney, and has an area of 1,625 hectares.

Tasmania

Van Dieman's Land, first settled in 1803, was politically separated from New South Wales in 1825 being constituted a separate colony on 14 June. The area of the colony was 67,897 square kilometres. The name of the colony was officially changed to Tasmania in 1856 when responsible government was established. Following a resurvey of local government areas, the area of Tasmania was determined at 68,332 square kilometres at the end of 1964.

Macquarie Island, about 1,550 kilometres south-east of Hobart, together with a few rocky islets nearby, has been a part of Tasmania since the nineteenth centry. In December 1911 five members of the Australiasian Antarctic Expedition landed on the island and remained there until 1915. On 3 March 1948 another party was landed to man a new station which has been since maintained as a scientific base. The island is about 33 kilometres long and 6 kilometres wide.

Western Australia

The territory westward of the 129th meridian, comprising 2,527,633 square kilometres was constituted a colony under the name of Western Australia in June 1829. It was always distinct and independent of New South Wales, except for the settlement on King George Sound (see page 3), which remained under the jurisdiction of New South Wales until 1831.

South Australia

On 15 August 1834 the Act 4 and 5 William IV., cap. 95, was passed, creating South Australia a 'province', and settlement took place towards the end of the year 1836. The first Governor, Captain Hindmarsh, R.N., arrived at Holdfast Bay on 28 December 1836, and on the same day the new colony was officially proclaimed. The new colony embraced 802,512 square kilometres of territory, lying south of the 26th parallel of south latitude and between the 141st* and 132nd meridians of east longitude. On 10 December 1861, by authority of the Imperial Act 24 and 25 Vict., cap. 44, the western boundary of South Australia was extended to coincide with the eastern boundary of Western Australia, namely, the 129th east meridian. The area of the extension was approximately 181,870 square kilometres. Nearly two years later on 6 July 1863, the Northern Territory, comprising 1,356,176 square kilometres, was brought under the jurisdiction of South Australia, which thereupon controlled an area of 2,340,557 square kilometres. The Territory was transferred to the Commonwealth on 1 January 1911 (see page 5). Following a resurvey of Northern Territory notified in 1964 the area was reduced by 8,651 square kilometres.

New Zealand

Although Captain Cook had taken possession of the North Island of New Zealand in November 1769, and of the South Island in January 1770, it is doubtful whether at the time when Captain Phillip's commission was drawn up New Zealand was considered as one of the 'islands adjacent in the Pacific Ocean' (see page 3). The fact that under the Supreme Court Act (Imperial) of 1823 British residents in New Zealand were brought under the jurisdiction of the Court at Sydney, and that in 1839 there was a proposal on the part of the British Government to appoint a consul in New Zealand, leaves this an open question, as nothing more than extra-territorial jurisdiction may have been intended. New Zealand does not appear to have become British territory unequivocally until 1840, when Captain Hobson arrived at the Bay of Islands, and on 30 January read his commissions, which extended the boundaries of the Colony of New South Wales so as to embrace and comprehend the islands of New Zealand. In February 1840 the Treaty of Waitangi, made with the native chiefs, was signed. Finally, on 21 May 1840 British sovereignty over the islands of New Zealand was explicitly proclaimed. New Zealand remained a dependency of New South Wales until, by letters patent of 16 November 1840, it was constituted a separate colony under the powers of the Act 3 and 4 Vict., cap. 62, of 7 August 1840. Proclamation of the separation was made on 3 May 1841. The area of the colony was 269,000 square kilometres. The present area of New Zealand, which acquired responsible government on 7 May 1856 and Dominion status on 26 September 1907, exclusive of island territories but including minor islands, is 268,667 square kilometres.

^{*} The actual surveyed boundary between South Australia and Victoria is at 140° 58' east longitude.

Victoria

In 1851 the 'Port Phillip District' of New South Wales was constituted the colony of Victoria, 'bounded on the north and north-west by a straight line drawn from Cape Howe to the nearest source of the River Murray and thence by the course of that river to the eastern boundary of the colony of South Australia'. The area of the new colony was 227,620 square kilometres, and its separate existance took effect from 1 July 1851.

Oueensland

The northern squatting districts of Moreton, Darling Downs, Burnett, Wide Bay, Maranoa, Leichhardt, and Port Curtis, together with the reputed county of Stanley, were granted an independent administration and formed into a distinct colony under the name of Queensland by letters patent dated 6 June 1859, although separation from New South Wales was not completed until 10 December of the same year. The territory comprised by the new colony was 'so much of the colony of New South Wales as lies northwards of a line commencing on the sea-coast at Point Danger in latitude about 28° 8' south, running westward along the Macpherson and Dividing Ranges and the Dumaresa River to the MacIntyre River, thence downward to the 29th parallel of South latitude, and following that parallel westerly to the 141st meridian of east longitude, which is the eastern boundary of South Australia, together with all the adjacent islands, their members, and appurtenances in the Pacific Ocean'. The area of the colony thus constituted was 1,435,637 square kilometres. By letters patent dated 13 March 1861, fowarded by the Colonial Secretary to the Governor of Queensland on 12 April 1862 the area of Queensland was increased by the annexation of 'so much of the colony of New South Wales as lies to the northward of the 26th parallel of south latitude, and between 141st and 138th meridians of east longitude, together with all the adjacent islands, their members, and appurtenances, in the Gulf of Carpentaria'. With this addition the area of Queensland became 1,736,595 square kilometres. Following a thorough revision of the area of each local government area of Queensland, based on the most recent maps available, the Surveyor-General in 1958 determined the area of Queensland as 1,727,530 square kilometres—a reduction of 9,065 square kilometres from the area previously determined.

The establishment of the Commonwealth of Australia

Federation

On 1 January 1901 the colonies mentioned, with the exception of New Zealand, were federated under the name of the 'Commonwealth of Australia', the designation of 'Colonies'—except in the case of the Northern Territory, to which the designation 'Territory' applied—being at the same time changed to that of 'States'.

Transfer of the Northern Territory to the Commonwealth

On 7 December 1907 the Commonwealth and the State of South Australia entered into an agreement for the transfer of the Northern Territory to the Commonwealth, subject to approval by the Parliaments of the Commonwealth and the State. This approval was given by the South Australian Parliament under The Northern Territory Surrender Act, 1907 and by the Commonwealth Parliament under the Northern Territory Acceptance Act 1910. The Territory was formally transferred to the Commonwealth on 1 January 1911, and became the Northern Territory of Australia.

By Imperial Order in Council dated 23 July 1931 Ashmore Islands, known as Middle, East and West Islands, and Cartier Island, situated in the Indian Ocean off the north-west coast of Australia, were placed under the authority of the Commonwealth. The islands were accepted by the Commonwealth on 10 May 1934, in the Ashmore and Cartier Islands Acceptance Act 1933, under the name of the Territory of Ashmore and Cartier Islands. The Act authorised the Governor of Western Australia to make ordinances having the force of law in and in relation to the Territory. An amendment to the Act in July 1938 annexed the islands to the Northern Territory, whose laws, ordinances, and regulations, wherever applicable, thereupon applied.

The area of Ashmore Reef is approximately 150 square kilometres (to the limit of the reef), and it is situated 350 kilometres off the western coast of Australia and 850 kilometres west of Darwin. Cartier Island is approximately 9 square kilometres in area (to the limit of the reef), and is situated 290 kilometres off the western coast of Australia and 790 kilometres west of Darwin.

Transfer of the Australian Capital Territory to the Commonwealth

On 18 October 1909 the Commonwealth and the State of New South Wales entered into an agreement for the surrender to and acceptance by the Commonwealth of an area of 2,359 square kilometres as the Seat of Government of the Commonwealth. In December 1909, Acts were passed by the Commonwealth and New South Wales Parliaments approving the agreement, and on 5 December 1910 a proclamation was issued vesting the territory in the Commonwealth on and from 1 January 1911. By the Jervis Bay Territory Acceptance Act 1915 an area of 73 square kilometres at Jervis Bay, surrendered by New South Wales according to an agreement made in 1913, was accepted by the Commonwealth, and was transferred as from 4 September 1915.

Present composition of Australia

In 1973 the total area of Australia and of the individual States and Territories was determined by the Division of National Mapping as 7,682,300 square kilometres. (For a description of the method used in calculation of the areas see Chapter 2, page 26). The years in which the respective areas were annexed, the years of first permanent settlement, and the years in which responsible government was granted to the Colonies, and the present areas of the several States and Territories and of Australia are shown below.

| ATICTD ATTA. | COMPONENT | STATES AND | TERRITORIES |
|--------------|-----------|------------|-------------|
| | | | |

| State or Territory | | | | Year of annexation | Year of first permanent settlement | Year of formation into separate Colony or Territory | Year in which responsible government was granted | Present area in km² |
|--------------------|----|---------|--|-----------------------|---|---|--|---------------------------|
| New South Wales | | | | 1770 | 1788 | 1786 | 1855 | 801,600 |
| Victoria . | | | | 1770 | 1834 | 1851 | 1855 | 227,600 |
| Queensland . | | | | 1770 | 1824 | 1859 | (a)1859 | 1,727,200 |
| South Australia | | | | 1788 | 1836 | 1834 | 1856 | 984,000 |
| Western Australia | | | | 1829 | 1829 | 1829 | 1890 | 2,525,500 |
| Tasmania . | | | | 1788 | 1803 | 1825 | 1855 | 67,800 |
| Northern Territory | , | | | | | (b)1863 | | 1,346,200 |
| Australian Capital | Te | rritory | | | | (c)1911 | • • | 2,400 |
| Australia | | | | •• | | •• | (d) | 7,682,300 |

⁽a) As part of New South Wales in 1855; as a separate colony in 1859. (b) Previously part of New South Wales then brought under the jurisdiction of South Australia in 1863—transferred to the Commonwealth in 1911. (c) Previously part of New South Wales. (d) Constituted as from 1 January 1901.

The Constitution of the Commonwealth of Australia

Information regarding the development of the Constitutions of the various Colonies (now States), together with a brief history of the federal movement in Australia, was embodied in this chapter in issues of the Year Book up to and including No. 22.

Commonwealth Constitution Act

The Commonwealth of Australia Constitution Act, 63 and 64 Vict., Chapter 12, namely: 'An Act to constitute the Commonwealth of Australia', as amended by the Constitution Alteration (Senate Elections) 1906, the Constitution Alteration (State Debts) 1909, the Constitution Alteration (State Debts) 1928, the Constitution Alteration (Social Services) 1946, and the Constitution Alteration (Aboriginals) 1967, is given in extenso hereunder, and the text contains all the alterations of the Constitution which have been made up to and including 31 December 1975.

THE COMMONWEALTH OF AUSTRALIA CONSTITUTION ACT. 63 & 64 VICT., CHAPTER 12.

An Act to Constitute the Commonwealth of Australia. (9th July, 1900.)

WHEREAS the people of New South Wales, Victoria, South Australia, Queensland, and Tasmania, humbly relying on the blessing of Almighty God, have agreed to unite in one indissoluble Federal Commonwealth under the Crown of the United Kingdom of Great Britain and Ireland, and under the Constitution hereby established:

And whereas it is expedient to provide for the admission into the Commonwealth of other Australasian colonies and possessions of the Queen:

Be it therefore enacted by the Queen's Most Excellent Majesty, by and with the advice and consent of the Lords Spirit al and Temporal, and Commons, in this present Parliament assembled and by the authority of the same, as follows:—

- 1. This Act may be cited as the Commonwealth of Australia Constitution Act.
- 2. The provisions of this Act referring to the Queen shall extend to Her Majesty's heirs and successors in the sovereignty of the United Kingdom.

- 3. It shall be lawful for the Queen, with the advice of the Privy Council, to declare by proclamation that, on and after a day therein appointed, not being later than one year after the passing of this Act, the people of New South Wales, Victoria, South Australia, Queensland, and Tasmania, and also, if Her Majesty is satisfied that the people of Western Australia have agreed thereto, of Western Australia, shall be united in a Federal Commonwealth under the name of the Commonwealth of Australia. But the Queen may, at any time after the proclamation, appoint a Governor-General for the Commonwealth.
- 4. The Commonwealth shall be established, and the Constitution of the Commonwealth shall take effect, on and after the day so appointed. But the Parliaments of the several colonies may at any time after the passing of this Act make any such laws, to come into operation on the day so appointed, as they might have made if the Constitution had taken effect at the passing of this Act.
- 5. This Act, and all laws made by the Parliament of the Commonwealth under the Constitution, shall be binding on the courts, judges, and people of every State and of every part of the Commonwealth, notwithstanding anything in the laws of any State: and the laws of the Commonwealth shall be in force on all British ships, the Queen's ships of war excepted, whose first port of clearance and whose port of destination are in the Commonwealth.
- 6. "The Commonwealth" shall mean the Commonwealth of Australia as established under this Act.
- "The States" shall mean such of the colonies of New South Wales, New Zealand, Queensland, Tasmania, Victoria, Western Australia, and South Australia, including the northern territory of South Australia, as for the time being are parts of the Commonwealth, and such colonies or territories as may be admitted into or established by the Commonwealth as States; and each of such parts of the Commonwealth shall be called "a State."
 - "Original States" shall mean such States as are parts of the Commonwealth at its establishment.
- 7. The Federal Council of Australasia Act, 1885, is hereby repealed, but so as not to affect any laws passed by the Federal Council of Australasia and in force at the establishment of the Commonwealth.

Any such law may be repealed as to any State by the Parliament of the Commonwealth, or as to any colony not being a State by the Parliament thereof.

- 8. After the passing of this Act the Colonial Boundaries Act, 1895, shall not apply to any colony which becomes a State of the Commonwealth; but the Commonwealth shall be taken to be a selfgoverning colony for the purposes of that Act.
 - The Constitution of the Commonwealth shall be as follows:—

THE CONSTITUTION.

This Constitution is divided as follows:-

I.—The Parliament: Chapter

Part I.—General: Part II.—The Senate:

Part III.—The House of Representatives:

Part IV.—Both Houses of the Parliament:

Part V.—Powers of the Parliament:

II.—The Executive Government: Chapter

Chapter III.—The Judicature:

Chapter IV.—Finance and Trade:

Chapter V.—The States:

Chapter VI.—New States:

Chapter VII.—Miscellaneous:

Chapter VIII.—Alteration of the Constitution.

The Schedule.

CHAPTER I.—THE PARLIAMENT.

PART I.—GENERAL.

- 1. The legislative power of the Commonwealth shall be vested in a Federal Parliament, which shall consist of the Queen, a Senate, and a House of Representatives, and which is hereinafter called "The Parliament", or "The Parliament of the Commonwealth".
- 2. A Governor-General appointed by the Oueen shall be Her Majesty's representative in the Commonwealth, and shall have and may exercise in the Commonwealth during the Queen's pleasure, but subject to this Constitution, such powers and functions of the Queen as Her Majesty may be pleased to assign to him.

3. There shall be payable to the Queen out of the Consolidated Revenue Fund of the Commonwealth, for the salary of the Governor-General, an annual sum which, until the Parliament otherwise provides, shall be ten thousand pounds.

The salary of a Governor-General shall not be altered during his continuance in office.

- 4. The provisions of this Constitution relating to the Governor-General extend and apply to the Governor-General for the time being, or such person as the Queen may appoint to administer the Government of the Commonwealth; but no such person shall be entitled to receive any salary from the Commonwealth in respect of any other office during his administration of the Government of the Commonwealth.
- 5. The Governor-General may appoint such times for holding the sessions of the Parliament as he thinks fit, and may also from time to time, by Proclamation or otherwise, prorogue the Parliament, and may in like manner dissolve the House of Representatives.

After any general election the Parliament shall be summoned to meet not later than thirty days after the day appointed for the return of the writs.

The Parliament shall be summoned to meet not later than six months after the establishment of the Commonwealth.

6. There shall be a session of the Parliament once at least in every year, so that twelve months shall not intervene between the last sitting of the Parliament in one session and its first sitting in the next session.

PART II.—THE SENATE.

7. The Senate shall be composed of senators for each State, directly chosen by the people of the State, voting, until the Parliament otherwise provides, as one electorate.

But until the Parliament of the Commonwealth otherwise provides, the Parliament of the State of Queensland, if that State be an Original State, may make laws dividing the State into divisions and determining the number of senators to be chosen for each division, and in the absence of such provision the State shall be one electorate.

Until the Parliament otherwise provides there shall be six senators for each Original State.* The Parliament may make laws increasing or diminishing the number of senators for each State, but so that equal representation of the several Original States shall be maintained and that no Original State shall have less than six senators.

The senators shall be chosen for a term of six years, and the names of the senators chosen for each State shall be certified by the Governor to the Governor-General.

- 8. The qualification of electors of senators shall be in each State that which is prescribed by this Constitution, or by the Parliament, as the qualification for electors of members of the House of Representatives; but in the choosing of senators each elector shall vote only once.
- 9. The Parliament of the Commonwealth may make laws prescribing the method of choosing senators, but so that the method shall be uniform for all the States. Subject to any such law, the Parliament of each State may make laws prescribing the method of choosing the senators for that State

The Parliament of a State may make laws determining the times and places of elections of senators for the State.

- 10. Until the Parliament otherwise provides, but subject to this Constitution, the laws in force in each State, for the time being, relating to elections for the more numerous House of the Parliament of the State shall, as nearly as practicable, apply to elections of senators for the State.
- 11. The Senate may proceed to the despatch of business, notwithstanding the failure of any State to provide for its representation in the Senate.
- 12. The Governor of any State may cause writs to be issued for elections of senators for the State. In case of the dissolution of the Senate the writs shall be issued within ten days from the proclamation of such dissolution.
- 13. As soon as may be after the Senate first meets, and after each first meeting of the Senate following a dissolution thereof, the Senate shall divide the senators chosen for each State into two classes, as nearly equal in numbers as practicable; and the places of the senators of the first class shall become vacant at the expiration of [the third year] three years,† and the places of those of the second class at the expiration of [the sixth year] six years,† from the beginning of their term of service; and afterwards the places of senators shall become vacant at the expiration of six years from the beginning of their term of service.

^{*} The Parliament has otherwise provided, by means of the Representation Act 1948, that the number of senators shall be ten for each State from the first meeting of Parliament after the first dissolution of the House of Representatives occurring after the commencement of the Act (18 May 1948).

[†] As amended by Section 2 of the Constitution Alteration (Senate Elections) 1906. The words in square brackets have been repealed; amendments are shown in italics.

The election to fill vacant places shall be made [in the year at the expiration of which] within one year before* the places are to become vacant.

For the purposes of this section the term of service of a senator shall be taken to begin on the first day of [January] July* following the day of his election, except in the cases of the first election and of the election next after any dissolution of the Senate, when it shall be taken to begin on the first day of [January] July* preceding the day of his election.

- 14. Whenever the number of senators for a State is increased or diminished, the Parliament of the Commonwealth may make such provision for the vacating of the places of senators for the State as it deems necessary to maintain regularity in the rotation.
- 15. If the place of a senator becomes vacant before the expiration of his term of service, the House of Parliament of the State for which he was chosen shall, sitting and voting together, choose a person to hold the place until the expiration of the term, or until the election of a successor as hereinafter provided, whichever first happens. But if the Houses of Parliament of the State are not in session at the time when the vacancy is notified, the Governor of the State, with the advice of the Executive Council thereof, may appoint a person to hold the place until the expiration of fourteen days after the beginning of the next session of the Parliament of the State, or until the election of a successor, whichever first happens.

At the next general election of members of the House of Representatives, or at the next election of senators for the State, whichever first happens, a successor shall, if the term has not then expired, be chosen to hold the place from the date of his election until the expiration of the term.

The name of any senator so chosen or appointed shall be certified by the Governor of the State to the Governor-General.

- 16. The qualifications of a senator shall be the same as those of a member of the House of Representatives.
- 17. The Senate shall, before proceeding to the despatch of any other business, choose a senator to be the President of the Senate; and as often as the office of President becomes vacant the Senate shall again choose a senator to be the President.

The President shall cease to hold his office if he ceases to be a senator. He may be removed from office by a vote of the Senate, or he may resign his office or his seat by writing addressed to the Governor-General.

- 18. Before or during any absence of the President, the Senate may choose a senator to perform his duties in his absence.
- 19. A senator may, by writing addressed to the President, or to the Governor-General if there is no President or if the President is absent from the Commonwealth, resign his place, which thereupon shall become vacant.
- 20. The place of a senator shall become vacant if for two consecutive months of any session of the Parliament he, without the permission of the Senate, fails to attend the Senate.
- 21. Whenever a vacancy happens in the Senate, the President, or if there is no President or if the President is absent from the Commonwealth, the Governor-General, shall notify the same to the Governor of the State in the representation of which the vacancy has happened.
- 22. Until the Parliament otherwise provides, the presence of at least one third of the whole number of the senators shall be necessary to constitute a meeting of the Senate for the exercise of its powers.
- 23. Questions arising in the Senate shall be determined by a majority of votes, and each senator shall have one vote. The President shall in all cases be entitled to a vote; and when the votes are equal the question shall pass in the negative.

PART III.—THE HOUSE OF REPRESENTATIVES.

24. The House of Representatives shall be composed of members directly chosen by the people of the Commonwealth, and the number of such members shall be, as nearly as practicable, twice the number of the senators.

The number of members chosen in the several States shall be in proportion to the respective numbers of their people, and shall, until the Parliament otherwise provides, be determined, whenever necessary, in the following manner:—

- (i) A quota shall be ascertained by dividing the number of the people of the Commonwealth, as shown by the latest statistics of the Commonwealth, by twice the number of the senators:
- (ii) The number of members to be chosen in each State shall be determined by dividing the number of the people of the State, as shown by the latest statistics of the Commonwealth, by the quota; and if on such division there is a remainder greater than one-half of the quota, one more member shall be chosen in the State.

^{*} As amended by Section 2 of the Constitution Alteration (Senate Elections) 1906. The words in square brackets have been repealed; amendments are shown in italics.

But notwithstanding anything in this section, five members at least shall be chosen in each Original State

- 25. For the purpose of the last section, if by the law of any State all persons of any race are disqualified from voting at elections for the more numerous House of the Parliament of the State, then, in reckoning the number of the people of the State or of the Commonwealth, persons of that race resident in that State shall not be counted.
- 26. Notwithstanding anything in section twenty-four, the number of members to be chosen in each State at the first election shall be as follows:—

New South Wales twenty-three; South Australia . six: Victoria twenty; Tasmania . five: Oueensland eight: Provided that if Western Australia is an Original State, the numbers shall be as follows:— New South Wales South Australia . seven: twenty-six; Victoria twenty-three; Western Australia five: Queensland Tasmania . five. nine:

- 27. Subject to this Constitution, the Parliament may make laws for increasing or diminishing the number of the members of the House of Representatives.
- 28. Every House of Representatives shall continue for three years from the first meeting of the House, and no longer, but may be sooner dissolved by the Governor-General.
- 29. Until the Parliament of the Commonwealth otherwise provides, the Parliament of any State may make laws for determining the divisions in each State for which members of the House of Representatives may be chosen, and the number of members to be chosen for each division. A division shall not be formed out of parts of different States.

In the absence of other provision, each State shall be one electorate.

- 30. Until the Parliament otherwise provides, the qualification of electors of members of the House of Representatives shall be in each State that which is prescribed by the law of the State as the qualification of electors of the more numerous House of Parliament of the State; but in the choosing of members each elector shall vote only once.*
- 31. Until the Parliament otherwise provides, but subject to this Constitution, the laws in force in each State for the time being relating to elections for the more numerous House of the Parliament of the State shall, as nearly as practicable, apply to elections in the State of members of the House of Representatives.
- 32. The Governor-General in Council may cause writs to be issued for general elections of members of the House of Representatives.

After the first general election, the writs shall be issued within ten days from the expiry of a House of Representatives or from the proclamation of a dissolution thereof.

- 33. Whenever a vacancy happens in the House of Representatives, the Speaker shall issue his writ for the election of a new member, or if there is no Speaker or if he is absent from the Commonwealth the Governor-General in Council may issue the writ.
- 34. Until the Parliament otherwise provides, the qualifications of a member of the House of Representatives shall be as follows:—
 - (i) He must be of the full age of twenty-one years, and must be an elector entitled to vote at the election of members of the House of Representatives, or a person qualified to become such elector, and must have been for three years at the least a resident within the limits of the Commonwealth as existing at the time when he is chosen:
 - (ii) He must be a subject of the Queen, either natural-born or for at least five years naturalized under a law of the United Kingdom, or of a Colony which has become or becomes a State, or of the Commonwealth, or of a State.†
- 35. The House of Representatives shall, before proceeding to the despatch of any other business, choose a member to be the Speaker of the House, and as often as the office of Speaker becomes vacant the House shall again choose a member to be the Speaker.

The Speaker shall cease to hold his office if he ceases to be a member. He may be removed from office by a vote of the House, or he may resign his office or his seat by writing addressed to the Governor-General.

- 36. Before or during any absence of the Speaker, the House of Representatives may choose a member to perform his duties in his absence.
- 37. A member may by writing addressed to the Speaker, or to the Governor-General if there is no Speaker or if the Speaker is absent from the Commonwealth, resign his place, which thereupon shall become vacant.

^{*} The Parliament has otherwise provided, by means of the Commonwealth Electoral Act 1918, Sections 39 and 39A (repealing an earlier provision made by the Commonwealth Franchise Act 1902). For present qualifications see Chapter 3, General Government.

[†] The Parliament has otherwise provided, by means of the Commonwealth Electoral Act 1918. Section 69. For present qualifications see Chapter 3, General Government.

- 38. The place of a member shall become vacant if for two consecutive months of any session of the Parliament he, without the permission of the House, fails to attend the House.
- 39. Until the Parliament otherwise provides, the presence of at least one-third of the whole number of the members of the House of Representatives shall be necessary to constitute a meeting of the House for the exercise of its powers.
- 40. Questions arising in the House of Representatives shall be determined by a majority of votes other than that of the Speaker. The Speaker shall not vote unless the numbers are equal, and then he shall have a casting vote.

PART IV.—BOTH HOUSES OF THE PARLIAMENT.

- 41. No adult person who has or acquires a right to vote at elections for the more numerous House of the Parliament of a State, shall, while the right continues, be prevented by any law of the Commonwealth from voting at elections for either House of the Parliament of the Commonwealth.
- 42. Every senator and every member of the House of Representatives shall before taking his seat make and subscribe before the Governor-General, or some person authorized by him, an oath of affirmation of allegiance in the form set forth in the schedule to this Constitution.
- 43. A member of either House of the Parliament shall be incapable of being chosen or of sitting as a member of the other House.
 - 44. Any person who-
 - (i) Is under any acknowledgment of allegiance, obedience, or adherence to a foreign power, or is a subject or a citizen or entitled to the rights or privileges of a subject or a citizen of a foreign power: or
 - (ii) Is attainted of treason, or has been convicted and is under sentence, or subject to be sentenced, for any offence punishable under the law of the Commonwealth or of a State by imprisonment for one year or longer: or
 - (iii) Is an undischarged bankrupt or insolvent: or
 - (iv) Holds any office of profit under the Crown, or any pension payable during the pleasure of the Crown out of any of the revenues of the Commonwealth: or
 - (v) Has any direct or indirect pecuniary interest in any agreement with the Public Service of the Commonwealth otherwise than as a member and in common with the other members of an incorporated company consisting of more than twenty-five persons:

shall be incapable of being chosen or of sitting as a senator or a member of the House of Representatives.

But sub-section (iv) does not apply to the office of any of the Queen's Ministers of State for the Commonwealth, or of any of the Queen's Ministers for a State, or to the receipt of pay, half-pay, or a pension by any person as an officer or member of the Queen's navy or army, or to the receipt of pay as an officer or member of the naval or military forces of the Commonwealth by any person whose services are not wholly employed by the Commonwealth.

- 45. If a senator or member of the House of Representatives—
 - (i) Becomes subject to any of the disabilities mentioned in the last preceding section: or
 - (ii) Takes the benefit, whether by assignment, composition, or otherwise, of any law relating to bankrupt or insolvent debtors: or
 - (iii) Directly or indirectly takes or agrees to take any fee or honorarium for services rendered to the Commonwealth, or for services rendered in the Parliament to any person or State:

his place shall thereupon become vacant.

- 46. Until the Parliament otherwise provides, any person declared by this Constitution to be incapable of sitting as a senator or as a member of the House of Representatives shall, for every day on which he so sits, be liable to pay the sum of one hundred pounds to any person who sues for it in any court of competent jurisdiction.
- 47. Until the Parliament otherwise provides, any question respecting the qualification of a senator or of a member of the House of Representatives, or respecting a vacancy in either House of the Parliament, and any question of a disputed election to either House shall be determined by the House in which the question arises.
- 48. Until the Parliament otherwise provides, each senator and each member of the House of Representatives shall receive an allowance of four hundred pounds a year, to be reckoned from the day on which he takes his scat.*

^{*} The Parliamentary allowance has been varied from time to time. For current allowances, see Chapter 3, General Government.

- 49. The powers, privileges, and immunities of the Senate and of the House of Representatives, and of the members and the committees of each House, shall be such as are declared by the Parliament, and until declared shall be those of the Commons House of Parliament of the United Kingdom, and of its members and committees, at the establishment of the Commonwealth.
 - 50. Each House of the Parliament may make rules and orders with respect to-
 - (i) The mode in which its powers, privileges, and immunities may be exercised and upheld;
 - (ii) The order and conduct of its business and proceedings either separately or jointly with the other House.

PART V .-- POWERS OF THE PARLIAMENT.*

- 51. The Parliament shall, subject to this Constitution, have power to make laws for the peace, order, and good government of the Commonwealth with respect to:—
 - (i) Trade and commerce with other countries, and among the States:
 - (ii) Taxation; but so as not to descriminate between States or parts of States:
 - (iii) Bounties on the production or export of goods, but so that such bounties shall be uniform throughout the Commonwealth:
 - (iv) Borrowing money on the public credit of the Commonwealth:
 - (v) Postal, telegraphic, telephonic, and other like services:
 - (vi) The naval and military defence of the Commonwealth and of the several States, and the control of the forces to execute and maintain the laws of the Commonwealth:
 - (vii) Lighthouses, lightships, beacons and buoys:
 - (viii) Astronomical and meteorological observations:
 - (ix) Quarantine:
 - (x) Fisheries in Australian waters beyond territorial limits:
 - (xi) Census and statistics:
 - (xii) Currency, coinage, and legal tender:
 - (xiii) Banking, other than State banking; also State banking extending beyond the limits of the State concerned, the incorporation of banks, and the issue of paper money:
 - (xiv) Insurance, other than State insurance; also State insurance extending beyond the limits of the State concerned.
 - (xv) Weights and measures:
 - (xvi) Bills of exchange and promissory notes:
 - (xvii) Bankruptcy and insolvency:
 - (xviii) Copyrights, patents of inventions and designs, and trade marks:
 - (xix) Naturalization and aliens:
 - (xx) Foreign corporations, and trading or financial corporations formed within the limits of the Commonwealth:
 - (xxi) Marriage:
 - (xxii) Divorce and matrimonial causes; and in relation thereto, parental rights, and the custody and guardianship of infants:
 - (xxiii) Invalid and old-age pensions:
 - (xxiiia) †The provision of maternity allowances, widows' pensions, child endowment, unemployment, pharmaceutical, sickness and hospital benefits, medical and dental services (but not so as to authorize any form of civil conscription), benefits to students and family allowances:
 - (xxiv) The service and execution throughout the Commonwealth of the civil and criminal process and the judgments of the courts of the States:
 - (xxv) The recognition throughout the Commonwealth of the laws, the public Acts and records, and the judicial proceedings of the States:
 - (xxvi) The people of any race [other than the aboriginal race in any State]‡ for whom it is deemed necessary to make special laws:

^{*}Particulars of proposed laws which were submitted to referendums are referred to in Chapter 3, General Government, of this Year Book.

[†] Under Section 2 of the Constitution Alteration (Social Services) 1946, the Constitution was amended by the insertion of this paragraph.

[‡] Under Section 2 of the Constitution Alteration (Aboriginals) 1967, the words in square brackets were omitted.

- (xxvii) Immigration and emigration:
- (xxviii) The influx of criminals:
- (xxix) External affairs:
- (xxx) The relations of the Commonwealth with the islands of the Pacific.
- (xxxi) The acquisition of property on just terms from any State or person for any purpose in respect of which the Parliament has power to make laws:
- (xxxii) The control of railways with respect to transport for the naval and military purposes of the Commonwealth:
- (xxxiii) The acquisition, with the consent of a State, of any railways of the State on terms arranged between the Commonwealth and the State:
- (xxxiv) Railway construction and extension in any State with the consent of that State:
- (xxxv) Conciliation and arbitration for the prevention and settlement of industrial disputes extending beyond the limits of any one State:
- (xxxvi) Matters in respect of which this Constitution makes provision until the Parliament otherwise provides:
- (xxxvii) Matters referred to the Parliament of the Commonwealth by the Parliament or Parliaments of any State or States, but so that the law shall extend only to States by whose Parliaments the matter is referred, or which afterwards adopt the law:
- (xxxviii) The exercise within the Commonwealth, at the request or with the concurrence of the Parliaments of all the States directly concerned, of any power which can at the establishment of this Constitution be exercised only by the Parliament of the United Kingdom or by the Federal Council of Australasia:
- (xxxix) Matters incidental to the execution of any power vested by this Constitution in the Parliament or in either House thereof, or in the Government of the Commonwealth, or in the Federal Judicature, or in any department or officer of the Commonwealth.
- 52. The Parliament shall, subject to this Constitution, have exclusive power to make laws for the peace, order, and good government of the Commonwealth with respect to—
 - (i) The seat of Government of the Commonwealth, and all places acquired by the Commonwealth for public purposes:
 - (ii) Matters relating to any department of the public service the control of which is by this Constitution transferred to the Executive Government of the Commonwealth:
 - (iii) Other matters declared by this Constitution to be within the exclusive power of the Parliament.
- 53. Proposed laws appropriating revenue or moneys, or imposing taxation, shall not originate in the Senate. But a proposed law shall not be taken to appropriate revenue or moneys, or to impose taxation, by reason only of its containing provisions for the imposition or appropriation of fines or other pecuniary penalties, or for the demand or payment or appropriation of fees for licences, or fees for services under the proposed law.

The Senate may not amend proposed laws imposing taxation, or proposed laws appropriating revenue or moneys for the ordinary annual services of the Government.

The Senate may not amend any proposed law so as to increase any proposed charge or burden on the people.

The Senate may at any stage return to the House of Representatives any proposed law which the Senate may not amend, requesting, by message, the omission or amendment of any items or provisions therein. And the House of Representatives may, it it thinks fit, make any of such omissions or amendments, with or without modifications.

Except as provided in this section, the Senate shall have equal power with the House of Representatives in respect of all proposed laws.

- 54. The proposed law which appropriates revenue or moneys for the ordinary annual services of the Government shall deal only with such appropriation.
- 55. Laws imposing taxation shall deal only with the imposition of taxation, and any provision therein dealing with any other matter shall be of no effect.

Laws imposing taxation, except laws imposing duties of customs or of excise, shall deal with one subject of taxation only; but laws imposing duties of customs shall deal with duties of customs only, and laws imposing duties of excise shall deal with duties of excise only.

56. A vote, resolution, or proposed law for the appropriation of revenue or moneys shall not be passed unless the purpose of the appropriation has in the same session been recommended by message of the Governor-General to the House in which the proposal originated.

57. If the House of Representatives passes any proposed law, and the Senate rejects or fails to pass it, or passes it with amendments to which the House of Representatives will not agree, and if after an interval of three months the House of Representatives, in the same or the next session, again passes the proposed law with or without any amendments which have been made, suggested, or agreed to by the Senate, and the Senate rejects or fails to pass it, or passes it with amendments to which the House of Representatives will not agree, the Governor-General may dissolve the Senate and the House of Representatives simultaneously. But such dissolution shall not take place within six months before the date of expiry of the House of Representatives by effluxion of time.

If after such dissolution the House of Representatives again passes the proposed law, with or without any amendments which have been made, suggested, or agreed to by the Senate, and the Senate rejects or fails to pass it, or passes it with amendments to which the House of Representatives will not agree, the Governor-General may convene a joint sitting of the members of the Senate and of the House of Representatives.

The members present at the joint sitting may deliberate and shall vote together upon the proposed law as last proposed by the House of Representatives, and upon amendments, if any, which have been made therein by one House and not agreed to by the other, and any such amendments which are affirmed by an absolute majority of the total number of the members of the Senate and House of Representatives shall be taken to have been carried, and if the proposed law, with the amendments, if any, so carried is affirmed by an absolute majority of the total number of the members of the Senate and House of Representatives, it shall be taken to have been duly passed by both Houses of the Parliament, and shall be presented to the Governor-General for the Queen's assent.

58. When a proposed law passed by both Houses of the Parliament is presented to the Governor-General for the Queen's assent he shall declare, according to his discretion, but subject to this Constitution, that he assents in the Queen's name, or that he withholds assent, or that he reserves the law for the Queen's pleasure.

The Governor-General may return to the House in which it originated any proposed law so presented to him, and may transmit therewith any amendments which he may recommend, and the Houses may deal with the recommendation.

- 59. The Queen may disallow any law within one year from the Governor-General's assent, and such disallowance on being made known by the Governor-General by speech or message to each of the Houses of the Parliament, or by Proclamation, shall annul the law from the day when the disallowance is so made known.
- 60. A proposed law reserved for the Queen's pleasure shall not have any force unless and until within two years from the day on which it was presented to the Governor-General for the Queen's assent the Governor-General makes known, by speech or message to each of the Houses of the Parliament, or by Proclamation, that it has received the Queen's assent.

CHAPTER II.—THE EXECUTIVE GOVERNMENT.

- 61. The executive power of the Commonwealth is vested in the Queen and is exercisable by the Governor-General as the Queen's representative, and extends to the execution and maintenance of this Constitution, and of the laws of the Commonwealth.
- 62. There shall be a Federal Executive Council to advise the Governor-General in the government of the Commonwealth, and the members of the Council shall be chosen and summoned by the Governor-General and sworn as Executive Councillors, and shall hold office during his pleasure.
- 63. The provisions of this Constitution referring to the Governor-General in Council shall be construed as referring to the Governor-General acting with the advice of the Federal Executive Council.
- 64. The Governor-General may appoint officers to administer such departments of State of the Commonwealth as the Governor-General in Council may establish.

Such officers shall hold office during the pleasure of the Governor-General. They shall be members of the Federal Executive Council, and shall be the Queen's Ministers of State for the Commonwealth.

After the first general election no Minister of State shall hold office for a longer period than three months unless he is or becomes a senator or a member of the House of Representatives.

- 65. Until the Parliament otherwise provides, the Ministers of State shall not exceed seven in number, and shall hold such offices as the Parliament prescribes, or, in the absence of provision, as the Governor-General directs.*
- 66. There shall be payable to the Queen, out of the Consolidated Revenue Fund of the Commonwealth, for the salaries of the Ministers of State, an annual sum which, until the Parliament otherwise provides, shall not exceed twelve thousand pounds a year.*

^{*} The number of Ministers of State and the annual appropriation for their salaries have been varied from time to time. For current particulars, see Chapter 3, General Government.

- 67. Until the Parliament otherwise provides, the appointment and removal of all other officers of the Executive Government of the Commonwealth shall be vested in the Governor-General in Council, unless the appointment is delegated by the Governor-General in Council or by a law of the Commonwealth to some other authority.
- 68. The command in chief of the naval and military forces of the Commonwealth is vested in the Governor-General as the Queen's representative.
- 69. On a date or dates to be proclaimed by the Governor-General after the establishment of the Commonwealth the following departments of the public service in each State shall become transferred to the Commonwealth:—

Posts, telegraphs, and telephones:

Naval and military defence:

Lighthouses, lightships, beacons and buoys:

Quarantine.

But the departments of customs and of excise in each State shall become transferred to the Commonwealth on its establishment.

70. In respect of matters which, under this Constitution, pass to the Executive Government of the Commonwealth, all powers and functions which at the establishment of the Commonwealth are vested in the Governor of a Colony, or in the Governor of a Colony with the advice of his Executive Council, or in any authority of a Colony, shall vest in the Governor-General, or in the Governor-General in Council, or in the authority exercising similar powers under the Commonwealth, as the case requires.

CHAPTER III.—THE JUDICATURE.

- 71. The judicial power of the Commonwealth shall be vested in a Federal Supreme Court, to be called the High Court of Australia, and in such other federal courts as the Parliament creates, and in such other courts as it invests with federal jurisdiction. The High Court shall consist of a Chief Justice, and so many other Justices, not less than two, as the Parliament prescribes.*
 - 72. The Justices of the High Court and of the other Courts created by the Parliament-
 - (i) Shall be appointed by the Governor-General in Council:
 - (ii) Shall not be removed except by the Governor-General in Council, on an address from both Houses of the Parliament in the same session, praying for such removal on the ground of proved misbehaviour or incapacity:
 - (iii) Shall receive such remuneration as the Parliament may fix; but the remuneration shall not be diminished during their continuance in office.†
- 73. The High Court shall have jurisdiction, with such exceptions and subject to such regulations as the Parliament prescribes, to hear and determine appeals from all judgments, decrees, orders, and sentences—
 - (i) Of any Justice or Justices exercising the original jurisdiction of the High Court:
 - (ii) Of any other federal court, or court exercising federal jurisdiction; or of the Supreme Court of any State, or of any other court of any State from which at the establishment of the Commonwealth an appeal lies to the Queen in Council:
 - (iii) Of the Inter-State Commission, but as to questions of law only:

and the judgment of the High Court in all such cases shall be final and conclusive.

But no exception or regulation prescribed by the Parliament shall prevent the High Court from hearing and determining any appeal from the Supreme Court of a State in any matter in which at the establishment of the Commonwealth an appeal lies from such Supreme Court to the Queen in Council.

Until the Parliament otherwise provides, the conditions of and restrictions on appeals to the Queen in Council from the Supreme Courts of the several States shall be applicable to appeals from them to the High Court.

74. No appeal shall be permitted to the Queen in Council from a decision of the High Court upon any question, howsoever arising, as to the limits inter se of the Constitutional powers of the Commonwealth and those of any State or States, or as to the limits inter se of the Constitutional powers of any two or more States, unless the High Court shall certify that the question is one which ought to be determined by Her Majesty in Council.

The High Court may so certify if satisfied that for any special reason the certificate should be granted, and thereupon an appeal shall lie to Her Majesty in Council on the question without further leave

Except as provided in this section, this Constitution shall not impair any right which the Queen may be pleased to exercise by virtue of Her Royal prerogative to grant special leave of appeal from the High Court to Her Majesty in Council. The Parliament may make laws limiting the matters in which such leave may be asked, but proposed laws containing any such limitation shall be reserved by the Governor-General for Her Majesty's pleasure.

^{*} The Judiciary Act 1903 provided for a Chief Justice and two other Justices, increased by subsequent amendments to six.

† The Judiciary Act 1903 provided for the payment of a salary of £3,500 (\$7,000) a year to the Chief Justice and of £3,000 (\$6,000) a year to each other Justice. These amounts have been varied from time to time.

75. In all matters-

- (i) Arising under any treaty:
- (ii) Affecting consuls or other representatives of other countries:
- (iii) In which the Commonwealth, or a person suing or being sued on behalf of the Commonwealth, is a party:
- (iv) Between States, or between residents of different States, or between a State and a resident of another State:
- (v) In which a writ of Mandamus or prohibition or an injunction is sought against an officer of the Commonwealth:

the High Court shall have original jurisdiction.

- 76. The Parliament may make laws conferring original jurisdiction on the High Court in any matter—
 - (i) Arising under this Constitution, or involving its interpretation:
 - (ii) Arising under any laws made by the Parliament:
 - (iii) Of Admiralty and maritime jurisdiction:
 - (iv) Relating to the same subject-matter claimed under the laws of different States.
- 77. With respect to any of the matters mentioned in the last two sections the Parliament may make laws—
 - (i) Defining the jurisdiction of any federal court other than the High Court:
 - (ii) Defining the extent to which the jurisdiction of any federal court shall be exclusive of that which belongs to or is invested in the courts of the States:
 - (iii) Investing any court of a State with federal jurisdiction.
- 78. The Parliament may make laws conferring rights to proceed against the Commonwealth or a State in respect of matters within the limits of the judicial power.
- 79. The federal jurisdiction of any court may be exercised by such number of judges as the Parliament prescribes.
- 80. The trial on indictment of any offence against any law of the Commonwealth shall be by jury, and every such trial shall be held in the State where the offence was committed, and if the offence was not committed within any State the trial shall be held at such place or places as the Parliament prescribes.

CHAPTER IV.—FINANCE AND TRADE.

- 81. All revenues or moneys raised or received by the Executive Government of the Commonwealth shall form one Consolidated Revenue Fund, to be appropriated for the purposes of the Commonwealth in the manner and subject to the charges and liabilities imposed by this Constitution.
- 82. The costs, charges, and expenses incident to the collection, management, and receipt of the Consolidated Revenue Fund shall form the first charge thereon; and the revenue of the Commonwealth shall in the first instance be applied to the payment of the expenditure of the Commonwealth.
- 83. No money shall be drawn from the Treasury of the Commonwealth except under appropriation made by law.

But until the expiration of one month after the first meeting of the Parliament the Governor-General in Council may draw from the Treasury and expend such moneys as may be necessary for the maintenance of any department transferred to the Commonwealth and for the holding of the first elections for the Parliament.

84. When any department of the public service of a State becomes transferred to the Commonwealth, all officers of the department shall become subject to the control of the Executive Government of the Commonwealth.

Any such officer who is not retained in the service of the Commonwealth shall, unless he is appointed to some other office of equal emolument in the public service of the State, be entitled to receive from the State any pension, gratuity, or other compensation, payable under the law of the State on the abolition of his office.

Any such officer who is retained in the service of the Commonwealth shall preserve all his existing and accruing rights, and shall be entitled to retire from office at the time, and on the pension or retiring allowance, which would be permitted by the law of the State if his service with the Commonwealth were a continuation of his service with the State. Such pension or retiring allowance shall be paid to him by the Commonwealth; but the State shall pay to the Commonwealth a part thereof

to be calculated on the proportion which his term of service with the State bears to his whole term of service, and for the purpose of the calculation his salary shall be taken to be that paid to him by the State at the time of the transfer.

Any officer who is, at the establishment of the Commonwealth, in the public service of a State, and who is, by consent of the Governor of the State with the advice of the Executive Council thereof, transferred to the public service of the Commonwealth, shall have the same rights as if he had been an officer of a department transferred to the Commonwealth and were retained in the service of the Commonwealth.

- 85. When any department of the public service of a State is transferred to the Commonwealth-
 - (i) All property of the State of any kind, used exclusively in connexion with the department, shall become vested in the Commonwealth; but, in the case of the departments controlling customs and excise bounties, for such time only as the Governor-General in Council may declare to be necessary:
 - (ii) The Commonwealth may acquire any property of the State, of any kind used, but not exclusively used in connexion with the department; the value thereof shall, if no agreement can be made, be ascertained in, as nearly as may be, the manner in which the value of land, or of an interest in land, taken by the State for public purposes is ascertained under the law of the State in force at the establishment of the Commonwealth:
 - (iii) The Commonwealth shall compensate the State for the value of any property passing to the Commonwealth under this section; if no agreement can be made as to the mode of compensation, it shall be determined under laws to be made by the Parliament:
 - (iv) The Commonwealth shall, at the date of the transfer, assume the current obligations of the State in respect of the department transferred.
- 86. On the establishment of the Commonwealth, the collection and control of duties of customs and of excise, and the control of the payment of bounties, shall pass to the Executive Government of the Commonwealth.
- 87. During a period of ten years after the establishment of the Commonwealth and thereafter until the Parliament otherwise provides, of the net revenue of the Commonwealth from duties of customs and of excise not more than one-fourth shall be applied annually by the Commonwealth towards its expenditure.

The balance shall, in accordance with this Constitution, be paid to the several States, or applied towards the payment of interest on debts of the several States taken over by the Commonwealth.

- 88. Uniform duties of customs shall be imposed within two years after the establishment of the Commonwealth.
 - 89. Until the imposition of uniform duties of customs-
 - The Commonwealth shall credit to each State the revenues collected therein by the Commonwealth.
 - (ii) The Commonwealth shall debit to each State-
 - (a) The expenditure therein of the Commonwealth incurred solely for the maintenance or continuance, as at the time of transfer, of any department transferred from the State to the Commonwealth;
 - (b) The proportion of the State, according to the number of its people, in the other expenditure of the Commonwealth.
 - (iii) The Commonwealth shall pay to each State month by month the balance (if any) in favour of the State.
- 90. On the imposition of uniform duties of customs the power of the Parliament to impose duties of customs and of excise, and to grant bounties on the production or export of goods, shall become exclusive

On the imposition of uniform duties of customs all laws of the several States imposing duties of customs or of excise, or offering bounties on the production or export of goods, shall cease to have effect, but any grant of or agreement for any such bounty lawfully made by or under the authority of the Government of any State shall be taken to be good if made before the thirtieth day of June, one thousand eight hundred and ninety-eight, and not otherwise.

91. Nothing in this Constitution prohibits a State from granting any aid to or bounty on mining for gold, silver, or other metals, nor from granting, with the consent of both Houses of the Parliament of the Commonwealth expressed by resolution, any aid to or bounty on the production or export of goods.

92. On the imposition of uniform duties of customs, trade, commerce, and intercourse among the States, whether by means of internal carriage or ocean navigation, shall be absolutely free.

But notwithstanding anything in this Constitution, goods imported before the imposition of uniform duties of customs into any State, or into any Colony which, whilst the goods remain therein, becomes a State, shall, on thence passing into another State within two years after the imposition of such duties, be liable to any duty chargeable on the importation of such goods into the Commonwealth, less any duty paid in respect of the goods on their importation.

- 93. During the first five years after the imposition of uniform duties of customs, and thereafter until the Parliament otherwise provides—
 - (i) The duties of customs chargeable on goods imported into a State and afterwards passing into another State for consumption, and the duties of excise paid on goods produced or manufactured in a State and afterwards passing into another State for consumption, shall be taken to have been collected not in the former but in the latter State:
 - (ii) Subject to the last sub-section, the Commonwealth shall credit revenue, debit expenditure, and pay balances to the several States as prescribed for the period preceding the imposition of uniform duties of customs.
- 94. After five years from the imposition of uniform duties of customs, the Parliament may provide, on such basis as it deems fair, for the monthly payment to the several States of all surplus revenue of the Commonwealth.
- 95. Notwithstanding anything in this Constitution, the Parliament of the State of Western Australia, if that State be an Original State, may, during the first five years after the imposition of uniform duties of customs, impose duties of customs on goods passing into that State and not originally imported from beyond the limits of the Commonwealth; and such duties shall be collected by the Commonwealth.

But any duty so imposed on any goods shall not exceed during the first of such years the duty chargeable on the goods under the law of Western Australia in force at the imposition of uniform duties, and shall not exceed during the second, third, fourth, and fifth of such years respectively, four-fifths, three-fifths, two-fifths and one-fifth of such latter duty, and all duties imposed under this section shall cease at the expiration of the fifth year after the imposition of uniform duties.

If at any time during the five years the duty on any goods under this section is higher than the duty imposed by the Commonwealth on the importation of the like goods, then such higher duty shall be collected on the goods when imported into Western Australia from beyond the limits of the Commonwealth.

- 96. During a period of ten years after the establishment of the Commonwealth and thereafter until the Parliament otherwise provides, the Parliament may grant financial assistance to any State on such terms and conditions as the Parliament thinks fit.
- 97. Until the Parliament otherwise provides, the laws in force in any Colony which has become or becomes a State with respect to the receipt of revenue and the expenditure of money on account of the Government of the Colony, and the review and audit of such receipt and expenditure, shall apply to the receipt of revenue and the expenditure of money on account of the Commonwealth in the State in the same manner as if the Commonwealth, or the Government or an officer of the Commonwealth, were mentioned wherever the Colony, or the Government or an officer of the Colony is mentioned.
- 98. The power of the Parliament to make laws with respect to trade and commerce extends to navigation and shipping, and to railways the property of any State.
- 99. The Commonwealth shall not, by any law or regulation of trade, commerce, or revenue, give preference to one State or any part thereof over another State or any part thereof.
- 100. The Commonwealth shall not, by any law or regulation or trade or commerce, abridge the right of a State or of the residents therein to the reasonable use of the waters of rivers for conservation or irrigation.
- 101. There shall be an Inter-State Commission, with such powers of adjudication and administration as the Parliament deems necessary for the execution and maintenance, within the Commonwealth, of the provisions of this Constitution relating to trade and commerce, and of all laws made thereunder.
- 102. The Parliament may by any law with respect to trade or commerce forbid, as to railways, any preference or discrimination by any State, or by any authority constituted under a State, if such preference or discrimination is undue and unreasonable, or unjust to any State; due regard

being had to the financial responsibilities incurred by any State in connexion with the construction and maintenance of its railways. But no preference or discrimination shall, within the meaning of this section, be taken to be undue and unreasonable, or unjust to any State, unless so adjudged by the Inter-State Commission.

- 103. The Members of the Inter-State Commission-
 - (i) Shall be appointed by the Governor-General in Council:
 - (ii) Shall hold office for seven years, but may be removed within that time by the Governor-General in Council, on an address from both Houses of the Parliament in the same session praying for such removal on the ground of proved misbehaviour or incapacity:
 - (iii) Shall receive such remuneration as the Parliament may fix; but such remuneration shall not be diminished during their continuance in office.
- 104. Nothing in this Constitution shall render unlawful any rate for the carriage of goods upon a railway, the property of a State, if the rate is deemed by the Inter-State Commission to be necessary for the development of the territory of the State, and if the rate applies equally to goods within the State and to goods passing into the State from other States.
- 105. The Parliament may take over from the States their public debts [as existing at the establishment of the Commonwealth],* or a proportion thereof according to the respective numbers of their people as shown by the latest statistics of the Commonwealth, and may convert, renew, or consolidate such debts, or any part thereof; and the States shall indemnify the Commonwealth in respect of the debts taken over, and thereafter the interest payable in respect of the debts shall be deducted and retained from the portions of the surplus revenue of the Commonwealth payable to the several States, or if such surplus is insufficient, or if there is no surplus, then the deficiency or the whole amount shall be paid by the several States.
- 105A.†(1.) The Commonwealth may make agreements with the States with respect to the public debts of the States, including—
 - (a) the taking over of such debts by the Commonwealth;
 - (b) the management of such debts;
 - (c) the payment of interest and the provision and management of sinking funds in respect of such debts;
 - (d) the consolidation, renewal, conversion, and redemption of such debts;
 - (e) the indemnification of the Commonwealth by the States in respect of debts taken over by the Commonwealth; and
 - (f) the borrowing of money by the States or by the Commonwealth, or by the Commonwealth for the States.
- (2.) The Parliament may make laws for validating any such agreement made before the commencement of this section.
 - (3.) The Parliament may make laws for the carrying out by the parties thereto of any such agreement
 - (4.) Any such agreement may be varied or rescinded by the parties thereto.
- (5.) Every such agreement and any such variation thereof shall be binding upon the Commonwealth and the States parties thereto notwithstanding anything contained in this Constitution or the Constitution of the several States or in any law of the Parliament of the Commonwealth or of any State.
- (6.) The powers conferred by this section shall not be construed as being limited in any way by the provisions of section one hundred and five of this Constitution.

CHAPTER V.—THE STATES.

- 106. The Constitution of each State of the Commonwealth shall, subject to this Constitution, continue as at the establishment of the Commonwealth, or as at the admission or establishment of the State, as the case may be, until altered in accordance with the Constitution of the State.
- 107. Every power of the Parliament of a Colony which has become or becomes a State, shall, unless it is by this Constitution exclusively vested in the Parliament of the Commonwealth or withdrawn from the Parliament of the State, continue as at the establishment of the Commonwealth, or as at the admission or establishment of the State, as the case may be.

^{*} Under Section 2 of the Constitution Alteration (State Debts) 1909, the words in square brackets were omitted.

[†] Under Section 2 of the Constitution Alteration (State Debts) 1928, the Constitution was amended by the insertion of this section.

- 108. Every law in force in a Colony which has become or becomes a State, and relating to any matter within the powers of the Parliament of the Commonwealth, shall, subject to this Constitution, continue in force in the State; and, until provision is made in that behalf by the Parliament of the Commonwealth, the Parliament of the State shall have such powers of alteration and of repeal in respect of any such law as the Parliament of the Colony had until the Colony became a State.
- 109. When a law of a State is inconsistent with a law of the Commonwealth, the latter shall prevail, and the former shall, to the extent of the inconsistency, be invalid.
- 110. The provisions of this Constitution relating to the Governor of a State extend and apply to the Governor for the time being of the State, or other chief executive officer or administrator of the government of the State.
- 111. The Parliament of a State may surrender any part of the State to the Commonwealth; and upon such surrender, and the acceptance thereof by the Commonwealth, such part of the State shall become subject to the exclusive jurisdiction of the Commonwealth.
- 112. After uniform duties of customs have been imposed, a State may levy on imports or exports, or on goods passing into or out of the State, such charges as may be necessary for executing the inspection laws of the State; but the net produce of all charges so levied shall be for the use of the Commonwealth; and any such inspection laws may be annulled by the Parliament of the Commonwealth.
- 113. All fermented, distilled, or other intoxicating liquids passing into any State or remaining therein for use, consumption, sale or storage, shall be subject to the laws of the State as if such liquids had been produced in the State.
- 114. A State shall not, without the consent of the Parliament of the Commonwealth, raise or maintain any naval or military force, or impose any tax on property of any kind belonging to the Commonwealth, nor shall the Commonwealth impose any tax on property of any kind belonging to a State.
- 115. A State shall not coin money, nor make anything but gold and silver coin a legal tender in payment of debts.
- 116. The Commonwealth shall not make any law for establishing any religion, or for imposing any religious observance, or for prohibiting the free exercise of any religion, and no religious test shall be required as a qualification for any office or public trust under the Commonwealth.
- 117. A subject of the Queen, resident in any State, shall not be subject in any other State to any disability or discrimination which would not be equally applicable to him if he were a subject of the Queen resident in such other State.
- 118. Full faith and credit shall be given, throughout the Commonwealth, to the laws, the public Acts and records, and the judicial proceedings of every State.
- 119. The Commonwealth shall protect every State against invasion and, on the application of the Executive Government of the State, against domestic violence.
- 120. Every State shall make provision for the detention in its prisons of persons accused or convicted of offences against the laws of the Commonwealth, and for the punishment of persons convicted of such offences, and the Parliament of the Commonwealth may make laws to give effect to this provision.

CHAPTER VI.-NEW STATES.

- 121. The Parliament may admit to the Commonwealth or establish new States, and may upon such admission or establishment make or impose such terms and conditions, including the extent of representation in either House of the Parliament, as it thinks fit.
- 122. The Parliament may make laws for the government of any territory surrendered by any State to and accepted by the Commonwealth, or of any territory placed by the Queen under the authority of and accepted by the Commonwealth, or otherwise acquired by the Commonwealth, and may allow the representation of such territory in either House of the Parliament to the extent and on the terms which it thinks fit.
- 123. The Parliament of the Commonwealth may, with the consent of the Parliament of a State, and the approval of the majority of the electors of the State voting upon the question, increase, diminish, or otherwise alter the limits of the State, upon such terms and conditions as may be agreed on, and may, with the like consent, make provision respecting the effect and operation of any increase or diminution or alteration of territory in relation to any State affected.
- 124. A new State may be formed by separation of territory from a State, but only with the consent of the Parliament thereof, and a new State may be formed by the union of two or more States or parts of States, but only with the consent of the Parliaments of the States affected.

CHAPTER VII.-MISCELLANEOUS.

125. The seat of Government of the Commonwealth shall be determined by the Parliament and shall be within territory which shall have been granted to or acquired by the Commonwealth, and shall be vested in and belong to the Commonwealth, and shall be in the State of New South Wales, and be distant not less than one hundred miles from Sydney.

Such territory shall contain an area of not less than one hundred square miles, and such portion thereof as shall consist of Crown lands shall be granted to the Commonwealth without any payment therefor.

The Parliament shall sit at Melbourne until it meet at the seat of Government.

126. The Queen may authorize the Governor-General to appoint any person, or any persons jointly or severally, to be his deputy or deputies within any part of the Commonwealth, and in that capacity to exercise during the pleasure of the Governor-General such powers and functions of the Governor-General as he thinks fit to assign to such deputy or deputies, subject to any limitations expressed or directions given by the Queen; but the appointment of such deputy or deputies shall not affect the exercise by the Governor-General himself of any power or function.

*[127. In reckoning the numbers of the people of the Commonwealth, or of a State or other part of the Commonwealth, aboriginal natives shall not be counted.]

CHAPTER VIII.-ALTERATION OF THE CONSTITUTION.

128. This Constitution shall not be altered except in the following manner:-

The proposed law for the alteration thereof must be passed by an absolute majority of each House of the Parliament, and not less than two nor more than six months after its passage through both Houses the proposed law shall be submitted in each State to the electors qualified to vote for the election of members of the House of Representatives.

But if either House passes any such proposed law by an absolute majority, and the other House rejects or fails to pass it or passes it with any amendment to which the first-mentioned House will not agree, and if after an interval of three months the first-mentioned House in the same or the next session again passes the proposed law by an absolute majority with or without any amendment which has been made or agreed to by the other House, and such other House rejects or fails to pass it or passes it with any amendment to which the first-mentioned House will not agree, the Governor-General may submit the proposed law as last proposed by the first-mentioned House, and either with or without any amendments subsequently agreed to by both Houses, to the electors in each State qualified to vote for the election of the House of Representatives.

When a proposed law is submitted to the electors the vote shall be taken in such manner as the Parliament prescribes. But until the qualification of electors of members of the House of Representatives becomes uniform throughout the Commonwealth, only one-half the electors voting for and against the proposed law shall be counted in any State in which adult suffrage prevails.

And if in a majority of the States a majority of the electors voting approve the proposed law, and if a majority of all the electors voting also approve the proposed law, it shall be presented to the Governor-General for the Queen's assent.

No alteration diminishing the proportionate representation of any State in either House of the Parliament, or the minimum number of representatives of a State in the House of Representatives, or increasing, diminishing, or otherwise altering the limits of the State, or in any manner affecting the provisions of the Constitution in relation thereto, shall become law unless the majority of the electors voting in that State approve the proposed law.

SCHEDULE.

OATH.

I, A.B., do swear that I will be faithful and bear true allegiance to Her Majesty Queen Victoria, Her heirs and successors according to law. So HELP ME GOD!

AFFIRMATION.

I, A.B., do solemnly and sincerely affirm and declare that I will be faithful and bear true allegiance to Her Majesty Queen Victoria, Her heirs and successors according to law.

(Note. The name of the King or Queen of the United Kingdom of Great Britain and Ireland for the time being is to be substituted from time to time.)

^{*} Under Section 3 of the Constitution Alteration (Aboriginals) 1967 the section in square brackets was repealed.

The Royal Proclamation

The preceding Act received the Royal assent on 9 July 1900. This made it lawful to declare that the people of Australia should be united in a Federal Commonwealth. This proclamation, made on 17 September 1900, constituted the Commonwealth as from 1 January 1901; it read as follows.

BY THE QUEEN. A PROCLAMATION.

(Signed) VICTORIA R.

WHEREAS by an Act of Parliament passed in the Sixty-third and Sixty-fourth Years of Our Reign, intituled "An Act to constitute the Commonwealth of Australia," it is enacted that it shall be lawful for the Queen, with the advice of the Privy Council, to declare by Proclamation, that, on and after a day therein appointed, not being later than One year after the passing of this Act, the people of New South Wales, Victoria, South Australia, Queensland and Tasmania, and also, if Her Majesty is satisfied that the people of Western Australia have agreed thereto, of Western Australia, shall be united in a Federal Commonwealth under the name of the Commonwealth of Australia.

And whereas We are satisfied that the people of Western Australia have agreed thereto accordingly.

We therefore, by and with the advice of Our Privy Council, have thought fit to issue this Our Royal Proclamation, and We do hereby declare that on and after the First day of January One thousand nine hundred and one, the people of New South Wales, Victoria, South Australia, Queensland, Tasmania, and Western Australia shall be united in a Federal Commonwealth under the name of the Commonwealth of Australia.

Given at Our Court at *Balmoral* this Seventeenth day of *September*, in the Year of Our Lord One thousand nine hundred, and in the Sixty-fourth Year of Our Reign.

GOD SAVE THE QUEEN!

The External Territories of Australia

Norfolk Island

In 1856 Norfolk Island was created a distinct and separate settlement under the jurisdiction of New South Wales. Later, in 1896, it was made a dependency under the Governor of that colony, and finally by the passage of the Norfolk Island Act 1913 it was accepted as a Territory of the Commonwealth of Australia. The island is situated in latitude 29° 03′ S., longitude 167° 57′ E., and comprises an area approximately 36 square kilometres.

Australian Antarctic Territory

In Imperial Order in Council of 7 February 1933 placed under Australian authority 'all the islands and territories other than Adelie Land which are situated south of the 60th degree of South Latitude and lying between the 160th degree of East Longitude and the 45th degree of East Longitude'.

The Order came into force with a proclamation issued by the Governor-General on 24 August 1936, after the passing of the Australian Antarctic Territory Acceptance Act 1933 by the Commonwealth Parliament. The boundaries of Adelie Land were definitely fixed by a French Decree of 1 April 1938 as latitude 60° S., longitude 136° E., and longitude 142° E.

Heard and McDonald Islands

Heard and McDonald Islands, about 4,100 kilometres south-west of Fremantle, were transferred from United Kingdom to Australian control as from 26 December 1947. Heard Island is approximately 43 kilometres long and 20 kilometres wide, and McDonald Islands about 43 kilometres to the west of Heard Island, are small, rocky and precipitous.

Cocos [Keeling] Islands

The Cocos (Keeling) Islands Act 1955 provided for the acceptance of the Cocos Islands, in the Indian Ocean, as a Territory under the authority of the Commonwealth of Australia and was parallel to an Act of the United Kingdom Parliament transferring authority over the islands to the Commonwealth. Consequent on the passing of these Acts, Her Majesty, by Order in Council, specified 23 November 1955 as the date of transfer. From that date the islands came under Australian administration. Day to day affairs in the Territory are managed by an Administrator under delegation from the Minister of Administrative Services. The Territory's area is about 14 square kilometres, and they are situated in the Indian Ocean in latitude 12° 05′ S. and longitude 96° 53′ E.

Christmas Island

The Christmas Island Act 1958 provided for the acceptance of Christmas Island, in the Indian Ocean, as a Territory under the authority of the Commonwealth of Australia. Complementary legislation having been passed by the Parliament of the United Kingdom, the island was transferred to the Australian-administration on 1 October 1958. Day to day affairs in the Territory are managed by an Administrator under delegation from the Minister of Administrative Services. The area of the island is about 140 square kilometres and it is situated in the Indian Ocean in latitude 10° 25'S, and longitude 105° 40'E.

Coral Sea Islands

The Coral Sea Islands were declared to be a Territory of the Commonwealth of Australia by the Coral Sea Islands Act 1969. The scattered reefs and islands, often little more than sandbanks, spread over a sea area of over 1 million square kilometres with only a few square kilometres of actual land area, between the Great Barrier Reef, latitude 12° S. and longitude 157° 10′ E.



CHAPTER 2

CLIMATE AND PHYSICAL GEOGRAPHY OF AUSTRALIA

General description of Australia

This chapter has been prepared by the Bureau of Meteorology, Department of Science. It is mainly concerned with the climate of Australia, although some geographic comparisons and a summary of landform features influencing climate have been included together with a summary of atmospheric climatic controls.

The climate of Australia is predominantly continental but the insular nature of the land mass is significant in producing modification of the continental pattern.

The island continent of Australia is relatively dry with 50 per cent of the area having a median rainfall of less than 300 millimetres per year and 80 per cent less than 600 millimetres. Extreme minimum temperatures are not as low as those recorded in other continents because of the absence of extensive mountain masses and because of the expanse of ocean to the south. However, extreme maxima are comparatively high, reaching 50°C over the inland, mainly due to the great east-west extent of the continent in the vicinity of the Tropic of Capricorn.

Climatic discomfort, particularly heat discomfort, is significant over most of Australia. During summer, prolonged high temperatures and humidity around the northern coasts and high temperatures over the inland cause physical discomfort. In winter, low temperatures and strong cold winds over the interior and southern areas can be severe for relatively short periods.

Position and area

Position. Australia, including Tasmania, comprises a land area of 7,682,300 square kilometres. The land lies between latitudes 10° 41′S (Cape York) and 43° 39′S (South East Cape, Tasmania) and between longitudes 113° 09′E (Steep Point) and 153° 39′E (Cape Byron). The most southerly point on the mainland is South Point (Wilson's Promontory) 39° 08′S. The latitudinal distance between Cape York and South Point, Wilson's Promontory (South East Cape, Tasmania) is about 3,180 kilometres (3,680 kilometres) respectively and the longitudinal distance between Steep Point and Cape Byron is about 4,000 kilometres.

Area of Australia compared with areas of other countries. The area of Australia is almost as great as that of the United States of America excluding Alaska, about 50 per cent greater than Europe (excluding U.S.S.R.) and 32 times greater than the United Kingdom. The following table shows the area of Australia in relation to areas of other continents and countries.

AREAS OF CONTINENTS AND COUNTRIES, circa 1970 ('000 square kilometres)

| Country | Area | Country Area |
|-------------------------------|---------|-------------------------------------|
| Continental divisions— | | Europe(a)— |
| Europe(a) | 4,936 | France 54 |
| Asia(a) | 27,532 | Spain (including possessions) . 503 |
| U.S.S.R. (Europe and Asia) . | 22,402 | Sweden 450 |
| Africa | 30,319 | Finland |
| North and Central America and | • | Norway 324 |
| West Indies | 24,247 | Poland |
| South America | 17,834 | Italy 301 |
| Oceania | 8,504 | Yugoslavia 256 |
| | ., | Germany, Federal Republic of . 248 |
| | | United Kingdom 244 |
| Total, World excluding Arctic | | Romania 237 |
| and Antarctic continents . | 135,771 | Other 1,189 |

AREAS OF CONTINENTS AND COUNTRIES, circa 1970—continued ('000 square kilometres)

| Country | Area | Country | Arec |
|-----------------------------------|--------|-------------------------------|------|
| Asia(a)— | | Africa—continued | |
| China, (excl. Taiwan Province) . | 9,561 | Somalia | 638 |
| India | 3,268 | Central African Republic | 623 |
| Saudi Arabia | 2,150 | Madagascar | 58 |
| Iran | 1,648 | Kenya | 58 |
| Mongolia | 1,565 | Other | 4,81 |
| Indonesia | 1,492 | | • |
| Pakistan | 947 | | |
| Turkey | 781 | North and Central America— | |
| Burma | 678 | Canada | 9.97 |
| Afghanistan | 647 | United States of America(b) | 9,36 |
| Thailand | 514 | 1 | |
| Iraq | 435 | | 2,17 |
| Other | 4.058 | Mexico | 1,97 |
| | ., | Nicaragua | 13 |
| | | Cuba | 11 |
| J.S.S.R | 22,402 | Honduras | 11 |
| | , | Other | 40 |
| Africa— | | South America— | |
| Sudan | 2,506 | | 0.51 |
| Algeria | 2,382 | Brazil | 8,51 |
| Congo, People's Republic of the . | 342 | Argentina | 2,77 |
| Zaire | 2,345 | Peru | 1,28 |
| Libya | 1,760 | Colombia (excluding Panama) . | 1,13 |
| Chad | 1,284 | Bolivia | 1,09 |
| Niger | 1,267 | Venezuela | 91 |
| Angola | 1,247 | Chile | 75 |
| South Africa, Republic of | 1,221 | Paraguay | 40 |
| Mali | 1,240 | Ecuador | 28 |
| Ethiopia | 1,222 | Other | 65 |
| Mauritania | 1,031 | | |
| United Arab Republic | 1,001 | | |
| Tanzania, United Republic of . | 945 | Oceania— | |
| Nigeria | 924 | Australia | 7,68 |
| South-West Africa | 824 | Australia | 26 |
| | 783 | Papua New Guinea(c) | 46 |
| Mozambique | | | |

⁽a) Excludes U.S.S.R., shown below.

Area, coastline, tropical and temperate zones, and standard times. The areas of the States and Territories and the length of the coastline were determined in 1973, by the Division of National Mapping, Department of National Resources, by manually digitising these features from the 1:250,000 map series of Australia. This means that only features of measurable size at this scale were considered. About 60,000 points were digitised at an approximate spacing of 0.5 kilometres. These points were joined by chords as the basis for calculation of areas and coastline lengths by computer.

The approximate high water mark coastline was digitised and included all bays, ports and estuaries which are open to the sea. In these cases, the shoreline was assumed to be where the seaward boundary of the title of ownership would be. In mangroves, the shoreline was assumed to be on the landward side. Rivers were considered in a similar manner but the decisions were rather more subjective, the line being across the river where it appeared to take its true form.

⁽b) Includes Hawaii.

⁽c) West Irian is included in Other Asia.

AREA, COASTLINE, TROPICAL AND TEMPERATE ZONES, AND STANDARD TIMES: AUSTRALIA

Note. See paragraphs page 26 for methods of estimating area and coastline.

| | | | Estimated | l area | | Percentage total area | | Standard | 4 |
|----------------------|------------------------------|----|-----------|--------------------------------|---------------------------|--------------------------|------------------------|------------------------------------|----------|
| State or Territory | | _ | Total | Percentage of total area | Length of coastline | Tropical zone | Tem- perate zone | Meridian Ahead o selected G.M.I | |
| | | | km² | | km | | | | hours |
| New South Wales | | | 801,600 | 10.43 | 1,900 | | 100 | 150°E | 10.0 |
| Victoria | | | 227,600 | 2.96 | 1,800 | • | 100 | 150°E | 10.0 |
| Queensland . | | | 1,727,200 | 22.48 | 7,400 | 54 | 46 | 150°E | 10.0 |
| South Australia . | | | 984,000 | 12.81 | 3,700 | | 100 | 142°30'E | 9.5 |
| Western Australia | | | 2,525,500 | 32.87 | 12,500 | 37 | 63 | 120°E | 8.0 |
| Tasmania | | | 67,800 | 0.88 | 3,200 | | 100 | 150°E | 10.0 |
| Northern Territory | | | 1,346,200 | 17.52 | 6,200 | 81 | 19 | 142°30'E | 9.5 |
| Australian Capital T | Australian Capital Territory | | 2,400 | 0.03 | 35 | | 100 | 150°E | 10.0 |
| Australia . | • | ٠. | 7,682,300 | 100.00 | 36,735 | 39 | 61 | | |

Land forms

The average altitude of the surface of the Australian land mass is only about 300 metres. Approximately 87 per cent of the total land mass is less than 500 metres and 99.5 per cent is less than 1,000 metres. The highest point is Mount Kosciusko (2,228 metres) and the lowest point is Lake Eyre (-15 metres).

Australia has three major landform features: the western plateau, the interior lowlands and the eastern uplands. The western half of the continent consists mainly of a great plateau of altitude 300 to 600 metres. The interior lowlands include the channel country of southwest Queensland (drainage to Lake Eyre) and the Murray-Darling system to the south. The eastern uplands consist of a broad belt of varied width extending from north Queensland to Tasmania and consisting largely of table-lands, ranges and ridges with only limited mountain areas above 1,000 metres.

The rivers of Australia may be divided into two major classes, those of the coastal plains with moderate rates of fall and those of the central plains with very slight fall. Of the rivers of the northern part of the east coast, the longest are the Burdekin and the Fitzroy in Queensland. The Hunter is the largest coastal river of New South Wales, and the Murray River, with its great tributary the Darling, drains part of Queensland, the major part of New South Wales, and a large part of Victoria, finally flowing into the arm of the sea known as Lake Alexandrina, on the eastern side of the South Australian coast. The total length of the Murray is about 2,520 kilometres, about 650 being in South Australia and about 1,870 kilometres from South Australia to the source. The Darling from its junction with the Murray to its junction with the Culgoa is 1,390 kilometres. The Upper Darling (1,140 kilometres) incorporates the Barwon which commences at the junction of the Culgoa to its junction with the Weir River and the Macintyre River from its junction with the Weir to its source near Maybole. The rivers of the north-west coast of Australia (Western Australia), e.g. the Murchison, Gascoyne, Ashburton, Fortescue, De Grey, Fitzroy, Drysdale, and Ord are of considerable size. So also are those in the Northern Territory, e.g. the Victoria and Daly, and those on the Queensland side of the Gulf of Carpentaria, such as the Gregory, Leichhardt, Cloncurry, Gilbert, and Mitchell. The rivers of Tasmania have short and rapid courses, as might be expected from the configuration of the country.

The 'lakes' of Australia may be divided into three classes: true permanent lakes; lakes which, being very shallow, become mere morasses in dry seasons or even dry up, and finally present a cracked surface of salt and dry mud; and lakes which are really inlets of the ocean, opening out into a lake-like expanse. The second class, which are a characteristic of the interior lowlands are of considerable extent. The largest are Lake Eyre 9,500 square kilometres, Lake Torrens 5,900 square kilometres and Lake Gairdner 4,300 square kilometres.

For further information on the landforms and the geographical features of Australia earlier issues of the Year Book should be consulted. The list of special articles, etc., at the end of this volume indicates the nature of the information available and its position in the various issues.

Climate of Australia

Climatic controls

The generally low relief of Australia causes little obstruction to the atmospheric systems which control the climate. A notable exception is the eastern uplands which interrupt the flow in the lower levels of the atmosphere.

In the winter half of the year (May-October) anticyclones, or high pressure systems, pass from west to east across the continent and often remain almost stationary over the interior for several days. These anticyclones may extend to 4,000 kilometres along their west-east axes. Northern Australia is then influenced by mild dry south-east trade winds and southern Australia experiences cool moist westerly winds. The westerlies and the frontal systems associated with extensive depressions travelling over the Southern Ocean have a controlling influence on the climate of southern Australia during the winter season, causing rainy periods. Cold outbreaks, particularly in south-east Australia, occur when cold air of Southern Ocean origin is directed northwards by intense depressions having diameters up to 2,000 kilometres. Cold fronts associated with the southern depressions, or with secondary depressions over the Tasman Sea, may produce large day-to-day changes in temperature in southern areas, particularly in south-eastern coastal regions.

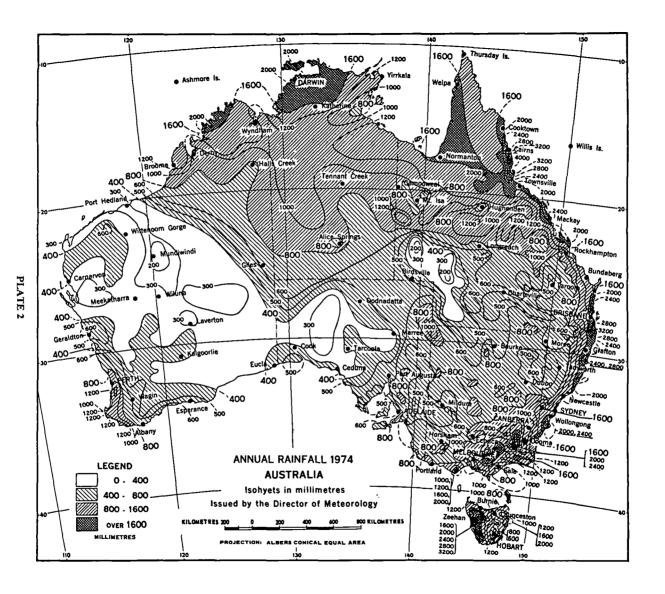
In the summer half of the year (November-April) the anticyclones travel from west to east on a more southerly track across the southern fringes of Australia directing easterly winds generally over the continent. Fine warmer weather predominates in southern Australia with the passage of each anticyclone. Heat waves occur when there is an interruption to the eastward progression of the anticyclone (blocking) and winds back northerly and later north-westerly. Northern Australia comes under the influence of summer disturbances associated with the southward intrusion of warm moist monsoonal air from north of the inter-tropic convergence zone, resulting in a hot rainy season.

Tropical cyclones develop over the seas to the north-west and the north-east of Australia in summer between November and April. Their frequency of occurrence and the tracks they follow vary greatly from season to season. On the average about three Coral Sea cyclones per season directly affect the Queensland coast; and about two Indian Ocean cyclones affect the north-western coast. Tropical cyclones approaching the coast usually produce very heavy rain in coastal areas. Some cyclones move inland, losing intensity but still producing widespread heavy rainfall. Individual cyclonic systems may control the weather over northern Australia for periods extending to three weeks.

Rainfall

Annual. Rainfall for the years 1974 and 1975 is shown in Plates 2 and 3, pages 29 and 30. The annual 50 percentile* rainfall and the annual 10 and 90 percentiles are shown on Plates 4, 5 and 6 respectively. The area of lowest rainfall is east of Lake Eyre in South Australia, where the median (50 percentile) rainfall is only about 100 millimetres. Murnpeowie with 70 years of record, has a median annual rainfall of 101 millimetres. Another very low rainfall area is in Western Australia in the Giles-Warburton Range region, which has a median annual rainfall of about 150 millimetres. A vast region extending from the west coast near Shark Bay across the interior of Western Australia and South Australia to south-west Queensland and north-west New South Wales has a median annual rainfall of less than 200 millimetres. This region is not normally exposed to moist air masses for extended periods and rainfall is irregular, averaging only one or two days per month. However, in favourable synoptic situations, which infrequently occur over extensive parts of the region, up to 400 millimetres of rain may fall within a few days resulting in widespread flooding.

^{*} The amounts that are not exceeded by 10, 50 and 90 per cent of all recordings are the 10, 50 and 90 percentiles or the first, fifth and ninth deciles respectively. The 50 percentile is usually called the median.



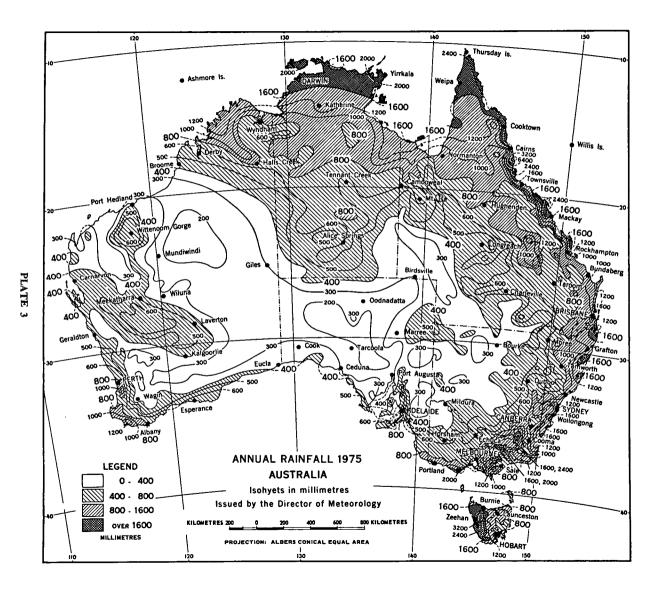
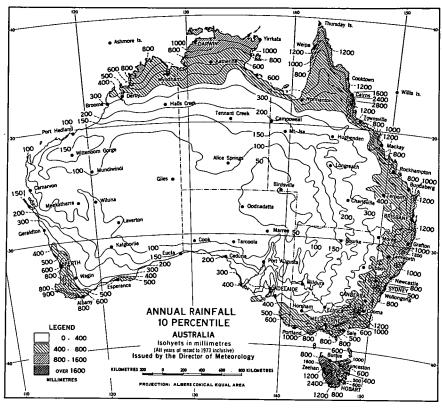
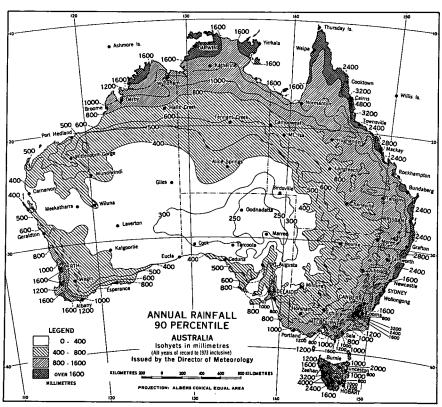


PLATE 4





PLATES 5 and 6

The region with the highest median annual rainfall is the east coast of Queensland between Cairns and Cardwell, where Tully's median is highest (4,400 millimetres). The mountainous region of western Tasmania also has a high annual rainfall, with 3,600 millimetres at Lake Margaret. In the mountainous areas of north-east Victoria and some parts of the east coastal slopes there are small pockets with median annual rainfalls greater than 2,500 millimetres but the map scale is too small for these to be shown.

The Snowy Mountains area in New South Wales also has a particularly high rainfall. The highest median annual rainfall isohyet drawn for this region is 3,200 millimetres and it is likely that small areas have a median annual rainfall approaching 4,000 millimetres on the western slopes above 2,000 metres elevation. (Gaffney 1971 (i)).

The following table shows the area distribution of the median annual rainfall derived from the map in Plate 4.

AREA DISTRIBUTION OF MEDIAN ANNUAL RAINFALL: AUSTRALIA
(Per cent)

| Median annual rainf | all | W.A. | N.T. | S.A. | Qld N | V.S.W.(a) | Vic. | Tas. | Aust |
|---------------------|-----|-------|-------|-------|-------|-----------|-------|-------|-------|
| Under 200 mm . | | 43.5 | `15.5 | 74.2 | 10.2 | 8.0 | Nil | Nil | 29.6 |
| 200 to 300 mm | | 29.6 | 35 6 | 13.5 | 13.0 | 20.3 | 63 | Nil | 22.9 |
| 300 ,, 400 ,, | | 10.5 | 9.0 | 6.8 | 12.3 | 19.0 | 19.2 | Nil | 11.2 |
| 400 ,, 500 ,, | | 4.3 | 6.6 | 3.2 | 13.5 | 12.4 | 11.8 | Nil | 7.6 |
| 500 ,, 600 ,, | | 3.1 | 5.8 | 1.8 | 11.6 | 11.3 | 14.1 | 12.2 | 6.6 |
| 600 ,, 800 ,, | | 4.6 | 11.6 | 0.5 | 20.5 | 15.1 | 24.5 | 18.2 | 10.7 |
| 800 ,, 1,200 ,, | | 3.7 | 9.6 | | 12.6 | 11.3 | 17.7 | 25.0 | 7.7 |
| Above 1,200 ,, | | 0.7 | 6.3 | | 6.3 | 2.6 | 6.4 | 44.6 | 3.7 |
| Total . | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

(a) Includes Australian Capital Territory.

Seasonal. As discussed under the heading of climatic controls, the rainfall pattern is strongly seasonal in character with a winter rainfall regime in the south and a summer regime in the north.

The dominance of rainfall over other climatic elements in determining the growth of specific plants in Australia has led to the development of a climatic classification based on two main parameters. These parameters are median annual rainfall and seasonal rainfall incidence (Gaffney 1971 (ii)). Plate 7, page 34, is a simplified version of the seasonal rainfall zones arising from this classification.

Evaporation and the concept of rainfall effectiveness are taken into account to some extent in this classification by assigning higher median annual rainfall limits to the summer zones than the corresponding uniform and winter zones. The main features of the seasonal rainfall are:

- (a) marked wet summer and dry winter of northern Australia;
- (b) wet summer and relatively dry winter of south-eastern Queensland and north-eastern New South Wales:
- (c) uniform rainfall in south-eastern Australia—much of New South Wales, parts of eastern Victoria and in southern Tasmania;
- (d) marked wet winter and dry summer of south-west Western Australia and (to a lesser extent) of much of the remainder of southern Australia directly influenced by westerly circulation;
- (e) arid area comprising about half of the continent extending from the north-west coast of Western Australia across the interior and reaching the south coast at the head of the Great Australian Bight.

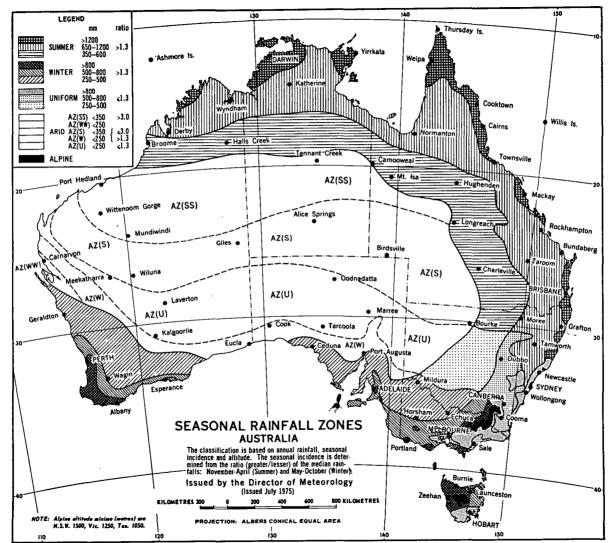


PLATE 7

Variability. The adequate presentation of rainfall variability over an extensive geographical area is difficult. Probably the best measures are found in tables compiled for a number of individual stations in some of the Climatic Survey districts. These tables show the percentage chances of receiving specified amounts of rainfall in monthly, seasonal or annual time spans. Statistical indexes of rainfall variation based on several techniques have been used to compile maps showing main features of the variability of annual rainfall over Australia.

One index for assessing the variability of annual rainfall is given by the ratio of the 90-10 per-

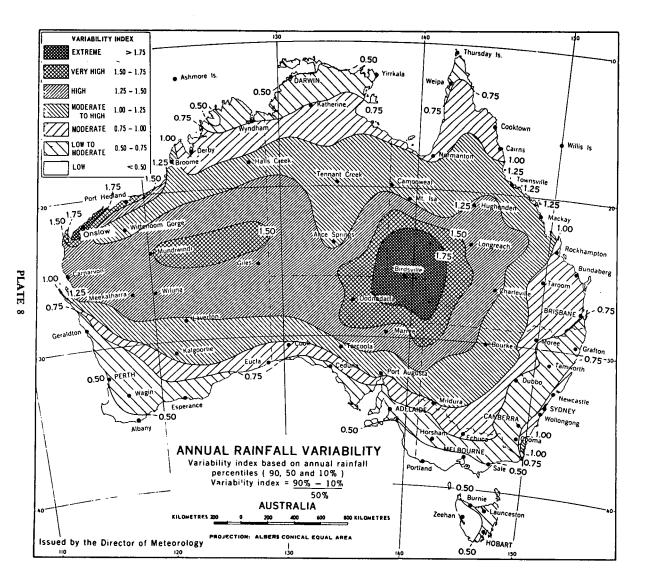
centile range to the 50 percentile (median value) i.e. Variability Index =
$$\left\{\frac{90 - 10}{50}\right\}$$
 percentiles.

Variability based on this relationship (Gaffney 1975) is shown in Plate 8, page 36. The region of high to extreme variability shown in Plate 8, page 36, lies mostly in the arid zone with summer rainfall incidence, AZ(S), defined in Plate 7, page 34. In the winter rainfall zones the variability is generally low to moderate as exemplified by the south-west of Western Australia. In the tropics, random cyclone visitations cause extremely great variations in rainfall from year to year. At Onslow (Western Australia) annual totals vary from 15 mm in 1912 to 1,085 mm in 1961 and in the four consecutive years 1921 to 1924 the annual totals were 566, 69, 682, 55 mm respectively. At Whim Creek (Western Australia) where 747 mm have been recorded in a single day, only 4 mm were received in the whole of 1924. Great variability can also occur in the heavy rainfall areas; at Tully (Queensland) the annual rainfalls have varied from 7,899 mm in 1950 to 2,489 mm in 1961.

Rainday frequency. The average number of days per year with rainfall of 0.2 mm or more is shown in Plate 9, page 37.

The frequency of rain-days exceeds 150 per year in Tasmania, southern Victoria, parts of the north Queensland coast and in the extreme south-west of Western Australia with a maximum of over 200 in western Tasmania. Over most of the continent the frequency is less than 50 rain-days per year. The area of low rainfall with high variability, extending from the north-west coast of Western Australia through the interior of the continent, has less than 25 rain-days per year. In the high rainfall areas of northern Australia the number of rain-days is about 80 per year, but heavier falls occur in this region than in southern regions.

Intensity The highest rainfall intensities for some localities are shown in the first table page 38. These figures represent intensities over only small areas around the recording points because turbulence and exposure characteristics of the measuring gauge may vary over a distance of a few metres. The highest 24-hour (9 a.m. to 9 a.m.) falls are listed by States in the second table page 38. Most of the very high 24-hour falls (above 700 millimetres) have occurred in the coastal strip of Queensland, where a tropical cyclone moving close to mountainous terrain provides ideal conditions for spectacular falls. The highest 24-hour fall, 907 millimetres occurred at Crohamhurst, Queensland on 3 February 1893.





HIGHEST RAINFALL INTENSITIES IN SPECIFIED PERIODS (millimetres)

| | | | | | | Years of complete | Period i | n hours | | | |
|---------------|---|---|---------------|------|---|-------------------|----------|---------|-----|-----|-----|
| Station | | | Period of re- | cord | | records | 1 | 3 | 6 | 12 | 24 |
| | | | | | | | mm | mm | mm | mm | mm |
| Adelaide . | | | 1897–1967 | | | 67 | 69 | 133 | 141 | 141 | 141 |
| Alice Springs | | | 1951-1970 | | | 18 | 54 | 55 | 64 | 87 | 106 |
| Brisbane . | | | 1911-1968 | | | 14 | 88 | 144 | 182 | 244 | 308 |
| Broome . | | | 1948-1970 | | | 23 | 72 | 119 | 130 | 172 | 221 |
| Canberra | | | 1932-1970 | | | 35 | 51 | 68 | 71 | 89 | 138 |
| Carnarvon | | | 1956-1971 | | | 16 | 32 | 63 | 82 | 95 | 10 |
| Charleville | | | 1953-1971 | | | 19 | 42 | 66 | 75 | 111 | 14 |
| Cloncurry | | | 1953-1972 | | | 17 | 46 | 118 | 164 | 173 | 20 |
| Darwin . | | | 1953-1970 | | | 15 | 88 | 101 | 109 | 152 | 19 |
| Esperance | | | 1963-1972 | | | 8 | 23 | 45 | 62 | 68 | 79 |
| Hobart . | | | 1911-1970 | | | 57 | 28 | 56 | 87 | 117 | 16 |
| Meekatharra | | | 1953-1971 | | | 17 | 26 | 67 | 80 | 98 | 11 |
| Melbourne | | | 1878-1969 | | | 79 | 49 | 57 | 86 | 102 | 12 |
| Mildura . | | | 1953-1971 | | | 17 | 49 | 60 | 65 | 65 | 9 |
| Perth . | | ì | 1946-1971 | | | 24 | 32 | 38 | 47 | 64 | 9 |
| Sydney . | - | · | 1913-1967 | | | 51 | 69 | 134 | 162 | 180 | 28 |
| Townsville | • | • | 1953-1970 | • | • | 16 | 87 | 111 | 122 | 161 | 27 |

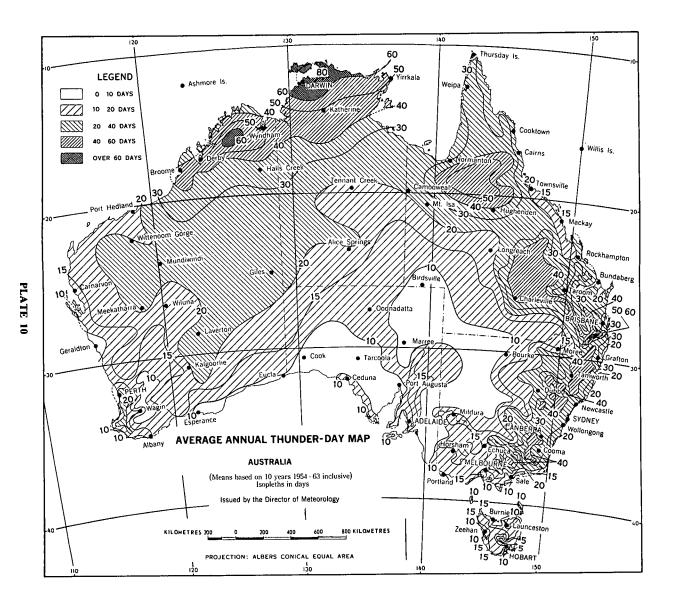
Source: Pluviograph records in Bureau of Meteorology archives.

HIGHEST DAILY RAINFALLS
(all years to 1973 inclusive)

| State | | Station | | Date | Amount |
|--------------------|---|----------------|---|-----------|--------|
| | | | | • | mm |
| Queensland . | | Crohamhurst | | 3.2.1893 | 907 |
| • | | Finch Hatton | | 18.2.1958 | 878 |
| | | Mount Dangar | | 20.1.1970 | 869 |
| | | Port Douglas | | 1.4.1911 | 801 |
| Western Australia | _ | Whim Creek | | 3.4.1898 | 747 |
| | - | Fortescue . | | 3.5.1890 | 593 |
| New South Wales | | Dorrigo . | | 24.6.1950 | 636 |
| | | Cordeaux River | | 14.2.1898 | 574 |
| Northern Territory | | Roper Valley | | 15.4.1963 | 545 |
| • | | Groote Eylandt | | 28.3.1953 | 513 |
| Tasmania | | Mathinna . | | 5.4.1929 | 336 |
| | | Cullenswood | | 5.4.1929 | 282 |
| Victoria | | Balook . | | 18.2.1951 | 275 |
| | | Hazel Park | Ċ | 1.12.1934 | 267 |
| South Australia . | | Ardrossan . | - | 18.2.1946 | 206 |
| | - | Сагра . | | 18.2.1946 | 199 |

Thunderstorms and hail A thunder-day at a given location is a calendar day on which thunder is heard at least once. Plate 10 page 39 shows isopleths (isobronts) of the average annual number of thunder-days which varies from 80 per year near Darwin to less than 10 per year over parts of the southern regions. Convectional processes during the summer wet season cause high thunderstorm incidence in northern Australia. The generally high incidence (40-60 annually) over the eastern upland areas is produced mainly by orographic uplift of moist air streams.

Hail, mostly of small size (less than 10 millimetres diameter), occurs with winter/spring cold frontal activity in southern Australia. Summer thunderstorms, particularly over the uplands of eastern Australia, sometimes produce large hail (greater than 10 millimetres diameter). Hail, capable of piercing light gauge galvanised iron, occurs at irregular intervals sometimes causing widespread damage.



Snow. Generally snow covers much of the Australian Alps above 1,500 metres for varying periods from late autumn to early spring. Similarly in Tasmania the mountains are covered fairly frequently above 1,000 metres in these seasons. The area, depth and duration are highly variable and in the altitude range 500-1,000 metres no snow falls in some years. Snowfalls at levels below 500 metres are occasionally experienced in southern Australia particularly in the foothill areas of Tasmania and Victoria but falls are usually light and short-lived. In some seasons parts of the eastern uplands above 1,000 metres from Victoria to south-eastern Queensland have been covered with snow for several weeks. In ravines around Mt Kosciusko (2,228 metres) small areas of snow may persist through summer but there are no permanent snowfields.

Temperature

Average temperatures. Average annual air temperatures as shown in plate 11, page 41 range from 28°C along the Kimberley coast in the extreme north of Western Australia to 4°C in the alpine areas of south-eastern Australia. Although annual temperature may be used for broad comparisons, monthly temperatures are required for detailed analyses.

July is the month with the lowest average temperature in all parts of the continent. The months with the highest average temperature are January or February in the south and December in the north, except in the extreme north and north-west where it is November. The slightly lower temperatures of mid-summer in the north are due to the increase in cloud during the wet season.

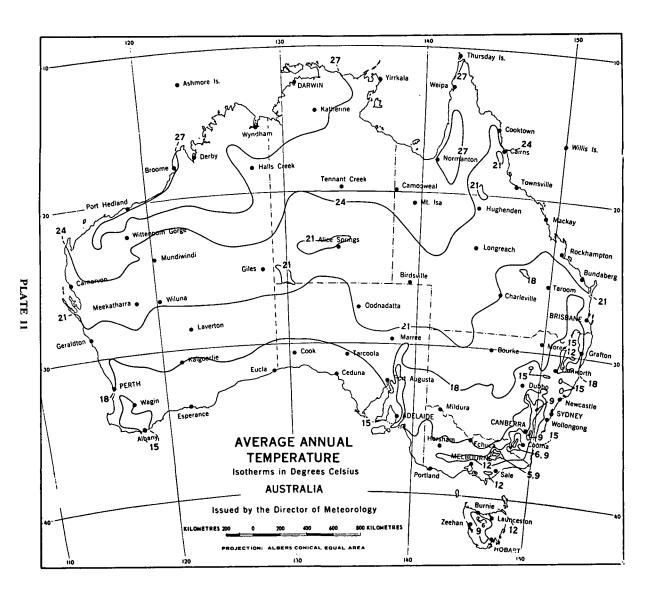
Average monthly maxima. Maps of average maximum and minimum temperatures for the months of January and July are shown in plates 12-15 inclusive.

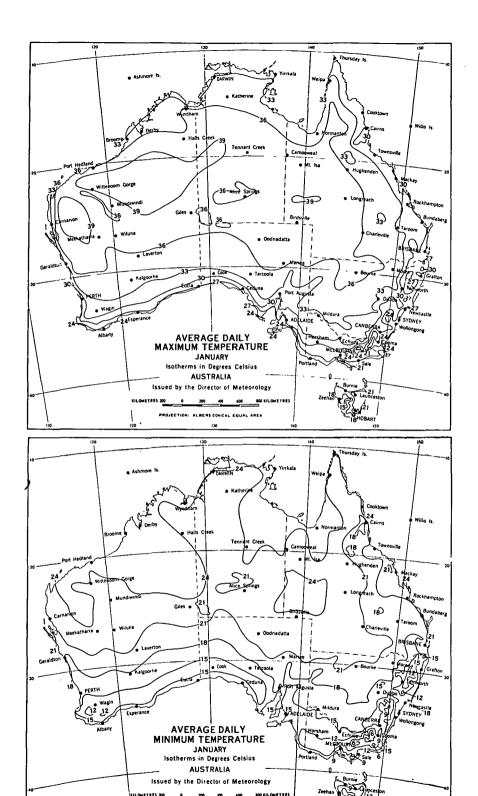
In January average maximum temperatures exceed 35°C over a vast area of the interior and exceed 40°C over appreciable areas of the north-west. The consistently hottest part of Australia is around Marble Bar, Western Australia (150 kilometres south-east of Port Hedland) where the average is 41°C and daily maxima during summer may exceed 40°C consecutively for several weeks at a time.

The marked gradients of isotherms of maximum temperature in summer in coastal areas, particularly along the south and west coasts, are due to the penetration inland of fresh sea breezes initiated by the sharp temperature discontinuities between the land and sea surfaces. There are also gradients of a complex nature in south-east coastal areas caused primarily by the uplands.

Maximum temperatures percentiles for the months of January and July for selected stations are contained in the table, page 44. One measure of the variability of maximum and minimum temperatures is given in the magnitude of the ratio (percentage) of the 20 to 80 percentile range to the median (50 percentile). In January variabilities of maxima based on this criterion show marked spatial variation (Melbourne 50 per cent; Darwin 15 per cent).

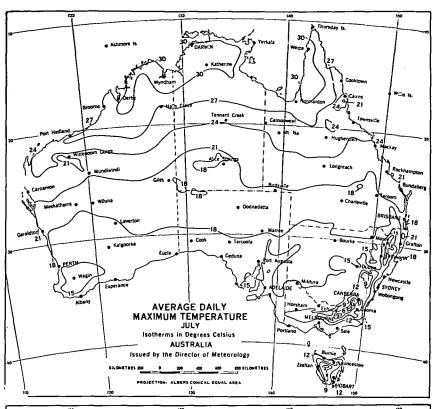
In July a more regular latitudinal distribution of average maxima is evident. Maxima range from 30°C near the north coast to 5°C in the alpine areas of the south-east. The table shows that maxima are generally less variable in July than in January (Melbourne 25 per cent; Darwin 10 per cent).

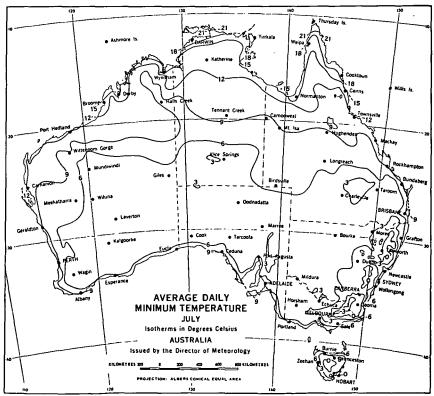




PLATES 12 and 13

PROJECTION: ALBERS CONICAL EQUAL AREA





PLATES 14 and 15

MAXIMUM TEMPERATURES DAILY: VARIABILITY IN JANUARY AND JULY (20, 50 and 80 percentile values, °C.)

| | | Januar | y | | July | | | | |
|-------------------|---------------------|--------|-------|----|-------------|----|----|--|--|
| | | Percen | tiles | | Percentiles | | | | |
| Station | Period of record | 20 | 50 | 80 | 20 | 50 | 80 | | |
| Adelaide | 1955–70 | 22 | 26 | 33 | 13 | 14 | 16 | | |
| Alice Springs . | 1949-68 | 33 | 36 | 38 | 15 | 18 | 22 | | |
| Birdsville | 1957-71 | 35 | 39 | 42 | 17 | 19 | 23 | | |
| Brisbane | 1948-68 | 27 | 28 | 30 | 18 | 20 | 22 | | |
| Canberra | 1950-59 | 23 | 27 | 32 | 9 | 11 | 13 | | |
| Ceduna | 1949-68 | 22 | 26 | 35 | 14 | 16 | 18 | | |
| Charleville | 1949-68 | 30 | 34 | 37 | 16 | 18 | 22 | | |
| Cloncurry | 1949-68 | 34 | 37 | 39 | 22 | 24 | 28 | | |
| Daly Waters | 1939-68 | 33 | 36 | 38 | 26 | 28 | 31 | | |
| Darwin | 1951-70 | 29 | 31 | 33 | 28 | 30 | 31 | | |
| Halls Creek | 1949-68 | 34 | 37 | 39 | 23 | 26 | 29 | | |
| Hobart | 1957-70 | 18 | 21 | 27 | 9 | 11 | 13 | | |
| Kalgoorlie | 1949-68 | 28 | 33 | 38 | 13 | 16 | 18 | | |
| Mackay | 1959-68 | 28 | 29 | 30 | 19 | 21 | 22 | | |
| Marble Bar | 1957-71 | 37 | 41 | 44 | 24 | 27 | 29 | | |
| Melbourne | 1955-68 | 21 | 24 | 33 | 11 | 13 | 14 | | |
| Perth | 1953-70 | 25 | 29 | 35 | 15 | 17 | 18 | | |
| Port Hedland . | 1949-68 | 33 | 36 | 38 | 24 | 26 | 28 | | |
| Sydney | 1955-70 | 22 | 24 | 28 | 15 | 17 | 18 | | |
| Thursday Island . | 1950-68 | 28 | 29 | 31 | 26 | 27 | 29 | | |
| Wilcannia | 1957-68 | 32 | 36 | 39 | 14 | 17 | 18 | | |

Average monthly minima. In January average minima range from 27° C on the north-west coast to 5° C in the alpine areas of the south-east. The table below contains minimum temperature percentiles for January and July at selected stations. In January variabilities of minima calculated from the 20-80 percentile range differ spatially, the value for Melbourne being 45 per cent and for Darwin 15 per cent. In July average minima fall below 5° C in areas south of the tropics (away from the coasts). Alpine areas record the lowest temperatures; the average is as low as -5° C. The table below shows that minima are more variable in July (Melbourne, 85 per cent; Darwin 20 per cent) than in January

MINIMUM TEMPERATURES DAILY: VARIABILITY IN JANUARY AND JULY (20, 50 and 80 percentile values, °C.)

| | | Januar | у | | July | | | |
|-----------------|---------------------|--------|-------|-------------|-------------|-----------|----|--|
| | D : 1 C | Percen | tiles | | Percentiles | | | |
| Station | Period of record | 20 | 50 | 80 | 20 | 50 | 80 | |
| Adelaide . | 1955–70 | 13 | 16 | 20 | 6 | | 9 | |
| Alice Springs | 1949-68 | 17 | 21 | 24 | 0 | 3 | 7 | |
| Birdsville . | 1957-71 | 21 | 24 | 27 | 3 | 5 | 9 | |
| Brisbane . | 1948-68 | 19 | 20 | 22 | 7 | 9 | 12 | |
| Canberra . | 1950-59 | 9 | 12 | 15 | -4 | -1 | 7 | |
| Ceduna . | 1949-68 | 11 | 14 | 17 | 3 | 6 | 3 | |
| Charleville . | 1949-68 | 18 | 21 | 23 | 0 | 3 | 8 | |
| Cloncurry . | 1949-68 | 22 | 24 | 27 | 7 | 10 | 18 | |
| Daly Waters. | 1939-68 | 22 | 23 | 25 | 9 | 12 | 13 | |
| Darwin . | 1951-70 | 23 | 24 | 26 | 17 | 19 | 25 | |
| Halls Creek . | 1949-68 | 22 | 24 | 26 | 9 | 12 | 11 | |
| Hobart . | 1957-70 | 9 | 11 | 14 | 2 | 4 | 4 | |
| Kalgoorlie . | 1949-68 | 14 | 17 | 21 | 1 | 4 | 7 | |
| Mackay . | 1959-68 | 21 | 23 | 24 | 8 | 11 | 17 | |
| Marble Bar . | 1957-71 | 23 | 26 | 27 | 8 | 11 | 16 | |
| Melbourne . | 1955-68 | 10 | 14 | 16 | 3 | 6 | 3 | |
| Perth | 1953-70 | 15 | 18 | 21 | 6 | 8 | 18 | |
| Port Hedland | 1949-68 | 23 | 25 | 26 | 8 | 11 | 11 | |
| Sydney . | 1955-70 | 17 | 18 | 20 | 6 | 8 | 4 | |
| Thursday Island | 1950-68 | 23 | 24 | 26 | 21 | 22 | 29 | |
| Wilcannia . | 1957-68 | 16 | 19 | 23 | 1 | 3 | 3 | |

Extreme maxima. Temperatures have exceeded 45°C at nearly all inland stations more than 150 kilometres from the coast and at many places on the north-west and south coasts. Temperatures have exceeded 50°C at some inland stations and at a few near the coast. It is noteworthy that Eucla on the south coast has recorded the highest temperature in Western Australia 50.7°C. This is due to the long trajectory over land of hot north-west winds from the Marble Bar area. Although the highest temperature recorded in Australia was 53.1°C at Cloncurry (Queensland) more stations have exceeded 50°C in western New South Wales than other areas, due to the long land trajectory of hot winds from the north-west interior of the continent.

Extreme maximum temperatures recorded at selected stations, including the highest recorded in each State, are shown in the table below.

EXTREME MAXIMUM TEMPERATURES
(All years to 1973 inclusive)

| Station | | | | °C | Station | °C | | | |
|------------------|------------|--------|------|------|-------------------|-------|--------|--|------|
| Western Australi | a | | | | New South Wales | | | | |
| Eucla . | | | | 50.7 | Bourke . | | | | 52.8 |
| Roebourne | | | | 49.5 | White Cliffs | | | | 51.1 |
| Marble Bar | | | | 49.2 | Walgett . | | | | 50.1 |
| Northern Territo | ry | | | | Wilcannia . | | | | 50.0 |
| Charlotte Wat | ers (no | ear Fi | nke) | 48.2 | Menindee . | | | | 49.7 |
| South Australia- | - ` | | • | | Australian Capita | l Ter | ritory | | |
| Oodnadatta | | | | 50.7 | Canberra . | | | | 42.2 |
| Kvancutta . | | | | 49.3 | Victoria— | | | | |
| Queensland- | | | | | Mildura . | | | | 50.8 |
| Cloncurry . | | | | 53.1 | Tasmania— | | | | |
| Winton . | | | | 50.7 | Bushy Park | | | | 40.9 |
| Birdsville . | | | | 50.0 | Hobart . | | | | 40.7 |

Extreme minima. The lowest temperatures in Australia have been recorded in the Snowy Mountains, where Charlotte Pass (elevation 1,760 metres) has recorded -22.2° C. Temperatures have fallen below -5° C at most inland places south of the tropics and at some places within a few kilometres of southern coasts. At Eyre on the south coast of Western Australia a minimum of -3.9° C has been recorded and at Swansea on the east coast of Tasmania, the temperature has fallen as low as -4.4° C.

In the tropics, extreme minima below 0° C have been recorded at many places away from the coasts as far north as Herberton, Queensland (-3.3°C). Even very close to the tropical coastline temperatures have fallen to 0° C, a low recording being -0.8°C for Mackay.

The next table shows extreme minimum temperatures recorded at specified stations, including the lowest recorded in each State.

EXTREME MINIMUM TEMPERATURES (All years to 1973 inclusive)

| Station | | | | | ° <i>C</i> | C Station | | | | | |
|-------------------|---|---|---|---|------------|--------------------|------|--------|---|--|-------|
| Western Australia | | | | | | New South Wales- | | | | | |
| Dwellingup | | | | | -7.0 | Charlotte Pass | | | | | -22.2 |
| Booylgoo . | | | | | -6.7 | Kiandra . | | | | | -20.6 |
| Salmon Gums | | | | | -5.4 | Kosciusko Hotel | | | | | -14.4 |
| Northern Territor | v | | | | | Cooma . | | | | | -11.2 |
| Alice Springs | , | | | | -7.2 | Australian Capital | Teri | itory- | _ | | |
| Tempe Downs | | • | • | • | -6.0 | Canberra . | | | | | -10.0 |
| • - | | • | • | • | 0.0 | Victoria— | | | | | |
| South Australia- | | | | | | Mount Hotham | | | | | -12.8 |
| Yongala | • | • | • | • | -8.1 | Omeo . | | | | | -10.0 |
| Kyancutta | • | • | • | | -7.0 | Bairnsdale . | | | | | -7.2 |
| Queensland- | | | | | | Tasmania— | | | | | |
| Stanthorpe . | | | | | -11.0 | Oatlands . | | | | | -12.8 |
| Nanango . | | | | | -9.3 | Bothwell . | | | | | -12.5 |

Temperature range. The average annual temperature range values shown in plate 16, page 47, have been determined by subtracting the lowest average monthly minimum from the highest average monthly maximum. On the basis of this criterion the greatest average range is 33°C over the western interior and the least is 9°C at the tip of Cape York Peninsula. The strong gradient in average range around the coastline illustrates the continental effect. This is marked on the Kimberley coast of Western Australia, where the range varies from 15°C on the coast to 24°C on the plateau a few kilometres inland.

Extreme temperature range, which is mapped in plate 17, page 47, has been calculated by subtracting the lowest temperature on record for each station from its highest. The greatest absolute range yet recorded is 57.2°C at White Cliffs in north-western New South Wales. This extreme range is confined to an elongated area in far north-western New South Wales, where maxima exceeding 49°C in north-westerly air in summer have been recorded and minima about -8°C during cold southern outbreaks in winter. In general terms the extreme range is about 30°C on the northern coast, 45°C on the southern coasts and 50°C away from the coasts.

Heat waves. Periods with a number of successive days having a temperature higher than 40°C are relatively common in summer over parts of Australia. With the exception of the north-west coast of Western Australia, however, most coastal areas rarely experience more than three successive days of such conditions. The frequency increases inland, and periods of up to ten successive days have been recorded at many inland stations. This figure increases in western Queensland and north-western Western Australia to more than twenty days in places. The central part of the Northern Territory and the Marble Bar-Nullagine area of Western Australia have recorded the most prolonged heat waves.

Heat waves are experienced in the coastal areas from time to time such as during 11-14 January 1939, when a severe heat wave affected south-eastern Australia. During this period Adelaide had a record of 47.6°C on the 12th, Melbourne a record of 45.6°C on the 13th and Sydney a record of 45.3°C on the 14th.

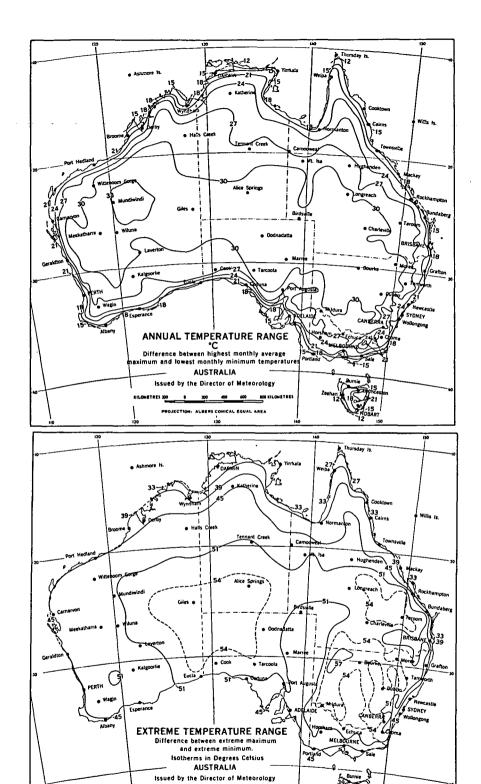
Frost. In Australia frost can cause serious losses in agricultural crops, and numerous climatic studies have been made relating to specific crops cultivated in local areas. Foley (1945 (i)) made a comprehensive study of the incidence of frost at stations recording minimum temperature. Since Foley's work was published the number of stations recording minimum temperatures has increased appreciably.

Under calm conditions, overnight temperatures at ground level are often as much as 5° C lower than those measured in the instrument screen (base height 1.1 metre); differences of 10° C have been recorded. Only a small number of stations measure minima at ground level, the lowest recordings being -15.1° C at Canberra and -14.6° C at Stanthorpe (Queensland). Lower readings may be recorded in alpine areas.

Frost frequency depends on location and orography, and even on minor variations in contour of the land. The parts of Australia which are most subject to frost are the eastern uplands from north-eastern Victoria to the western Darling Downs in southern Queensland. Most stations in this region experience more than ten nights a month with readings of 0°C (or under) for three to five months of the year. On Tasmania's Central Plateau similar conditions occur for three to six months of the year. Frosts may occur within a few miles of the coasts except the Northern Territory coast and most of the north Queensland coast.

Regions in which frosts may occur at any time of the year comprise most of Tasmania, large areas of the tablelands of New South Wales, much of inland Victoria, particularly the north-east, and a small part of the extreme south-west of Western Australia. Over most of the interior of the continent, and on the highlands of Queensland as far north as the Atherton Plateau, frosts commence in April and end in September. Minimum temperatures below 0°C are experienced in most of the subtropical interior in June and July.

The length of the frost period for the year is taken as the number of days between the first and last recording of an air temperature of 2°C or less. The median duration of the frost period in days per year is shown in plate 18, page 48.



PLATES 16 and 17

PROJECTION: ALBERS CONICAL EQUAL AREA



The median frost period over the continent varies from over 200 days per year in the south-eastern uplands areas south of the Hunter Valley to zero in northern Australia. In the southern regions of the continent the annual frost period generally decreases from about 100 days inland to below 50 days towards the coast. However, there are appreciable spatial variations depending mainly on local orography. In Tasmania the frost period exceeds 300 days on the uplands and decreases to 100 days near the coast.

The table below includes the average annual frequency of minima of 2°C or less for a wide selection of stations, particularly those prone to frosts. These data show the high spatial variability of frost frequency across Australia. The south-eastern alpine areas, as represented by Kiandra (elevation 1,400 metres), have a frequency exceeding 200. At Kalgoorlie the average annual frequency is 27, at Alice Springs 33, Charleville 37, Canberra 105 and Melbourne 19.

FROST FREQUENCY Average annual number of frosty nights (screen minimum \leq 2°C) and heavy frosts (\leq 0°C)

| Station | | | | | Period of record | Altitude (metres) | Number of frosty nights | Number of heavy frosts |
|----------------------|--------|-------|------------|--|---------------------|----------------------|-------------------------------|------------------------------|
| Adelaide (airport) | | | | | 1955-70 | 10 | 8 | 1 |
| Alice Springs | | | | | 1940-71 | 550 | 33 | 11 |
| Ballan (near Ballara | t) | | | | 1944-64 | 500 | 63 | 20 |
| Birdsville . | | | | | 1957-71 | 40 | 7 | 1 |
| Brisbane (Archerfiel | d air | port) |) . | | 1939-49 | 10 | 9 | 3 |
| Canberra . | | | | | 1939-71 | 570 | 105 | 65 |
| Ceduna | | | | | 1939-71 | 20 | 18 | 5 |
| Charleville . | | | | | 1942-71 | 290 | 37 | 15 |
| Hobart (Risdon) | | | | | 1957-70 | 40 | 25 | 5 |
| Kalgoorlie . | | | | | 1939-71 | 360 | 27 | 7 |
| Kiandra . | | | | | 1957-69 | 1,400 | 226 | 176 |
| Loch Valley (E of N | 1elbo | urne | e) . | | 1943-59 | 500 | 101 | 53 |
| Melbourne (Essendo | on air | port |) . | | 1939-71 | 80 | 19 | 4 |
| Mount Gambier | | | | | 1942-71 | 60 | 33 | 10 |
| Perth (airport) | | | | | 1944-71 | 20 | 5 | 0 |
| Walgett . | | | | | 1957-71 | 130 | 30 | 7 |

The next table shows percentiles (20, 50 and 80) of the annual number of frosts at selected stations. The difference between the 20 and 80 percentile figures relative to the 50 percentile (median) shows that there is great variability in the number of frosts at individual stations from year to year.

FROST VARIABILITY Annual number of frosty nights (\leq 2°C) and heavy frosts (\leq 0°C) 20, 50 and 80 percentiles

| | | | Numbe | r of frosty n | ights | Numbe | r of heavy f | rosts |
|-----------------------------|---------------------|----------|---------|---------------|-------|---------|--------------|-------|
| | Desired of | Altitude | Percent | iles | | Percent | iles | |
| Station | Period of record | (metres) | 20 | 50 | 80 | 20 | 50 | 80 |
| Alice Springs | 1941-71 | 550 | 16 | 27 | 37 | 5 | 8 | 14 |
| Bathurst | 1957-71 | 705 | 83 | 101 | 111 | 51 | 69 | 76 |
| Beechworth (SW of Albury) . | 1957-71 | 550 | 51 | 58 | 73 | 16 | 22 | 26 |
| Bridgetown | 1957-69 | 155 | 30 | 43 | 53 | 7 | 11 | 19 |
| Canberra | 1939-71 | 570 | 87 | 105 | 116 | 48 | 64 | 75 |
| Charleville | 1943-71 | 290 | ži | 35 | 45 | 6 | 14 | 19 |
| Dubbo | 1957-71 | 262 | 39 | 43 | 50 | 10 | 14 | 27 |
| Hay | 1957-71 | 93 | 21 | 34 | 37 | Š | 9 | 13 |
| Kalgoorlie | 1942-71 | 360 | Ĩ.5 | 22 | 31 | 2 | 4 | ĕ |
| Kiandra | 1957-68 | 1,400 | 206 | 228 | 250 | 163 | 175 | 193 |
| K vanautta | 1957-69 | 58 | 31 | 39 | 40 | .03 | 14 | 20 |
| Mount Gambier | 1942-71 | 60 | 20 | 27 | 34 | á | Ġ | īš |
| Mundiwindi | 1957-69 | 575 | 8 | 11 | 29 | 3 | วั | ii |
| Nhill (near Horsham) | 1957-71 | 129 | 4 Î | 47 | 58 | 12 | 17 | 26 |
| Oatlands | 1957-71 | 435 | 85 | 101 | 111 | 38 | 46 | 57 |
| Omeo | 1957-71 | 660 | 115 | 132 | 138 | 59 | 74 | 83 |
| Richmond (NW of Sydney) | 1953-71 | 20 | 23 | 30 | 40 | 37 | íõ | 13 |
| Sale | 1935-71 | | | | 45 | ٥ | 11 | 17 |
| | 1957-71 | 5 8 | 25 | 34 | 61 | 2 | 13 | iģ |
| Swansea | | | 38 | 45 | 70 | 13 | 25 | 34 |
| Wandering (SE of Perth) . | 1957-69 | 335 | 41 | .57 | | | | 53 |
| Waratah . | 1957-71 | 627 | 104 | 117 | 131 | 35 | 44 | |
| Yongala (E of Port Pirie) . | 1957–69 | 515 | 62 | 75 | 90 | 32 | 39 | 52 |

By convention a heavy frost is taken as corresponding to a minimum screen temperature of 0°C or less—see the two previous tables. The regions of mainland Australia most prone to heavy frosts are the eastern uplands and adjacent areas extending from Victoria through New South Wales to south-eastern Queensland. Stations above 1,000 metres in altitude in the southern parts of these uplands have more than 100 heavy frosts annually; and in the upland areas below 1,000 metres the annual frequency ranges from 100 to about 20. Over the remainder of southern Queensland, New South Wales and Victoria, although there are great spatial variations, the average annual frequency of heavy frosts typically ranges from about 20 inland to 10 towards the coasts. Some places on the coast experience heavy frosts, for example Portland, Victoria; with 3 annually.

In Tasmania, uplands above 1,000 metres have more than 100 heavy frosts annually and in neighbouring areas the frequency is about 100 decreasing to 20 towards the coasts. Even some coastal stations have a relatively high frequency, for example Swansea, 13.

The southern half of Western Australia, the whole of South Australia, and the Alice Springs district of the Northern Territory experience heavy frosts. Differences in annual frequencies between places are great but in general the frequency is about 10 inland, decreasing towards the coasts. Some places average more than 20 heavy frosts annually, notably Wandering, Western Australia (21) and Yongala, South Australia (29). At Alice Springs the annual average frequency is 11.

Humidity

Australia is a dry continent in terms of the water vapour content (humidity) of the air. Humidity is measured at Bureau of Meteorology observational stations by dry and wet bulb thermometers mounted in standard instrument screens. These measurements enable moisture content to be expressed in a number of ways two of which are vapour pressure and relative humidity.

Vapour pressure. Vapour pressure is the pressure exerted by the water vapour in the air and, as such, is a measure of the actual amount of water vapour. The amount of water vapour does not normally vary greatly during the day although afternoon sea breezes at coastal stations may bring in moisture to increase the vapour pressure by amounts up to 5 millibars. The 9 a.m. figure may be taken as an approximation to the mean value for the day. The next table page 51, contains average 9 a.m. vapour pressure figures for selected stations. The average annual figures range from 8.2 millibars at Alice Springs to 25.9 millibars at Darwin and 27.6 millibars at Thursday Island. At the high level station Kiandra (1,400 metres) the average annual figure is 7.3 millibars. Excluding values at Kiandra monthly averages range from 6.0 millibars at Alice Springs in August to 31.1 millibars at Darwin in January and at both Darwin and Broome in February.

Vapour pressure in association with air temperature has been used as a measure of climatic discomfort as it affects human beings. Comfortable conditions are generally accepted as being within the vapour pressure range 7-17 millibars, with air temperatures in the range 15-30°C. Above these limits heat discomfort increases and below the limits cold discomfort increases. The wet bulb temperature may also be used as a simple measure of heat discomfort since discomfort increases as the wet bulb temperature rises above 20°C. Climatic discomfort is treated later in this chapter.

Relative humidity. Relative humidity at a given temperature is the ratio (expressed as a percentage) of actual vapour pressure to the saturated vapour pressure at that temperature. The relative humidity at 9 a.m. may be taken as an approximation of the mean relative humidity for the day (24 hours). As a measure of human discomfort this parameter is of limited value because it must be related to the temperature at the time.

The table, on page 51, contains average relative humidity (per cent) at 9 a.m. for selected stations. Average annual figures range from 30 per cent at Mundiwindi to 80 per cent at Thursday Island. Monthly averages range from 17 per cent at Mundiwindi in October to 89 per cent at Katanning in June, July and August and at Kiandra in June. In northern Australia the highest relative humidity occurs in the summer rainy season about February and the lowest in the winter dry season about July. Darwin averages 81 per cent in January and February and 62 per cent in July. In most of southern Australia the highest relative humidity is experienced in the winter rainy season about June or July and the lowest in the warmer months. Perth averages 76 per cent in July and 51 per cent in December, January and February. Over the interior, relative humidity is consistently low although higher averages occur in winter months when temperatures are low. At Alice Springs, October has the lowest average (24 per cent) and June the highest (62 per cent).

The pattern of variation of relative humidity differs from that of vapour pressure, particularly in the south. This is due to the difference in variation of the two parameters with temperature. If the amount of moisture in the air remains constant, vapour pressure decreases slightly with falling temperature, whereas relative humidity increases. Perth for example, has an average 9 a.m. vapour pressure of 14.8 millibars in January and 10.7 millibars in August; and corresponding relative humidity figures are 51 and 71 per cent.

CLIMATE OF AUSTRALIA

AVERAGE VAPOUR PRESSURE AT 9 A.M.

(mb)

Note. The average monthly and annual figures in this and the next table are derived from the average monthly and annual dry and wet bulb temperatures respectively, using psychrometric formulae. Due to the nature of these formulae annual figures so derived may not equal averages of monthly figures.

| Station | | | Period of record | Jan, | Feh. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year |
|---|---|---|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|
| Adelaide . Alice Springs Armidale | | : | 1868-1971 1957-1971 1957-1971 | 11.9 11.9 15.1 | 12.3 11.5 15.5 | 11.7 10.5 14.1 | 11.3 10.1 11.7 | 10.8 8.4 8.7 | 9.9 7.9 7.5 | 9.4 6.5 6.3 | 9.7 6.0 7.3 | 9.9 6.6 8.3 | 10.1 6.8 10.1 | 10.5 8.6 11.5 | 11.1 9.9 13.3 | 10.7 8.2 10.2 |
| Brisbane . | | : | 1887-1950 1957-1971 1940-1971 | 21.7 29.4 13.1 | 22.0 31.1 13.8 | 20.9 29.4 12.5 | 17.5 22.4 10.3 | 14.3 14.6 8.4 | 12.1 14.2 7.1 | 11.1 11.8 6.6 | 11.7 11.8 7.0 | 13.8 15.8 8.2 | 16.0 21.7 9.7 | 18.1 25.3 10.4 | 20.1 28.8 11.9 | 16.6 20.8 9.9 |
| Carnaryon Ceduna | : | : | 1957–1971 1957–1971 1957–1971 | 21.7 13.8 | 21.9 14.3 | 19.9 14.1 | 16.9 12.0 | 13.8 11.1 | 14.0 9.7 | 11.8 9.4 | 11.6 9.6 | 12.3 10.3 | 13.8 10.3 | 15.9 10.9 | 18.8 12.2 | 15.8 11.1 |
| Cloncurry Darwin . | | : | 1957-1971 1882-1966 | 16.7 19.9 31.1 | 17.1 21.2 31.1 | 15.6 17.8 30.7 | 12.5 13.3 27.0 | 10.2 10.4 21.8 | 9.3 9.2 18.7 | 7.8 7.6 17.6 | 8.1 6.9 20.6 | 8.5 7.5 24.7 | 10.5 9.9 27.7 | 11.3 11.8 29.3 | 14.4 15.4 30.5 | 11.3 12.0 25.9 |
| Halls Creek Hobart | : | : | 1957-1969 1957-1971 1894-1970 | 16.0 21.1 11.0 | 16 7 21.7 11.7 | 15.7 18.5 11.0 | 14.4 12.4 10.0 | 12.7 10.3 8.8 | 12.1 8.2 7.9 | 11.1 6.9 7.6 | 11.1 6.7 7.9 | 11.7 7.5 8.3 | 12.9 10.9 9.1 | 13.9 13.9 9.6 | 15.3 18.0 10.6 | 13.5 12.6 9.5 |
| Katanning Kiandra | : | : | 1957-1971 1957-1972 1957-1972 | 12.9 13.2 11.1 | 14.0 13.9 11.3 | 13.1 13.2 10.3 | 11.8 12.5 7.6 | 10.3 11.0 5.9 | 10.1 10.5 5.4 | 8.9 9.3 4.7 | 8.8 9.7 5.2 | 9.1 10.2 5.5 | 9.6 9.4 7.3 | 10.5 10.6 8.1 | 11.7 11.5 10.3 | 10.7 11.1 7.3 |
| Marble Bar Melbourne Mildura | | : | 1957-1971 1907-1971 1957-1971 | 20.4 13.1 13.6 | 20.8 14.1 13.7 | 17.8 13.3 13.1 | 12.6 11.7 11.7 | 9.5 10.3 10.3 | 10.3 9.3 9.0 | 7.8 8.9 8.7 | 7.6 9.1 9.0 | 7.8 9.5 9.9 | 9.1 10.5 10.4 | 11.0 11.3 10.8 | 15.0 12.5 11.9 | 11.9 11.1 10.8 |
| Mundiwindi Perth Sydney | : | : | 1957-1972 1911-1940 1876-1971 | 13.1 14.8 18.8 | 14.4 14.7 19.2 | 11.8 14.7 18.3 | 10.6 13.4 15.0 | 8.5 12.4 11.9 | 8.8 11.4 10.2 | 7.2 10.9 9.6 | 6.8 10.7 9.5 | 6.7 11.6 11.3 | 6.4 11.7 13.0 | 8.2 12.7 15.0 | 10.2 13.9 17.6 | 8.9 12.7 13.6 |
| Thursday Island Townsville | đ | : | 1957-1971 1957-1971 | 30.2 26.1 | 30.4 27.3 | 30.3 25.4 | 29.0 22.1 | 28.0 18.2 | 25.8 15.3 | 24.1 14.1 | 24.5 15.7 | 24.7 16.7 | 26.1 19.7 | 28.0 22.9 | 29.6 24.6 | 27.6 20.3 |

AVERAGE RELATIVE HUMIDITY AT 9 A.M.

(per cent)

| Station | | Period of record | Jan. | Feh. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year |
|-----------------|---|---------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|------|
| Adelaide . | | 1868-1971 | 41 | 43 | 47 | 56 | 67 | 75 | 76 | 70 | 60 | 51 | 45 | 40 | 56 |
| Alice Springs . | | 1957-1971 | 30 | 32 | 35 | 44 | 54 | 62 | 56 | 43 | 33 | 24 | 25 | 27 | 35 |
| Armidale . | | 1957-1971 | 63 | 68 | 70 | 73 | 77 | 80 | 74 | 73 | 63 | 56 | 54 | 57 | 66 |
| Brisbane | | 1887-1971 | 66 | 69 | 71 | 71 | 71 | 72 | 70 | 67 | 63 | 60 | 59 | 61 | 67 |
| Broome | | 1957-1971 | 69 | 74 | 69 | 56 | 46 | 52 | 48 | 43 | 46 | 54 | 58 | 64 | 58 |
| Canberra . | | 1940-1971 | 58 | 65 | 67 | 73 | 83 | 85 | 83 | 78 | 72 | 66 | 57 | 56 | 69 |
| Carnarvon . | | 1957-1971 | 62 | 59 | 59 | 59 | 60 | 73 | 68 | 63 | 55 | 53 | 55 | 59 | 61 |
| Ceduna | | 1957-1971 | 49 | 54 | 60 | 61 | 75 | 77 | 80 | 74 | 63 | 49 | 45 | 48 | 59 |
| Charleville . | | 1957-1971 | 47 | 49 | 52 | 52 | 62 | 71 | 65 | 55 | 42 | 38 | 34 | 41 | 48 |
| Cloncurry . | | 1957-1971 | 48 | 54 | 49 | 42 | 45 | 49 | 43 | 34 | 28 | 27 | 28 | 35 | 40 |
| Darwin | | 1882-1971 | 81 | 81 | 80 | 72 | 65 | 63 | 62 | 66 | 68 | 68 | 70 | 75 | 71 |
| Esperance . | | 1957-1969 | 61 | 67 | 66 | 71 | 7.5 | 82 | 83 | 77 | ŽĨ | 63 | 62 | 62 | 69 |
| Halls Creek . | | 1957-1971 | 48 | 51 | 44 | 31 | 34 | 33 | 29 | 24 | 20 | 23 | 28 | 38 | 34 |
| Hobart | | 1894-1971 | 58 | 62 | 65 | 70 | 75 | 78 | 78 | 73 | 66 | 62 | 58 | 58 | 67 |
| Kalgoorlie . | - | 1957-1971 | 43 | 50 | 52 | 58 | 65 | 75 | 74 | 65 | 55 | 46 | 42 | 42 | 54 |
| Katanning . | - | 1957-1972 | 58 | 65 | 68 | 78 | 78 | 89 | 89 | 89 | 83 | 54 | 51 | 48 | 69 |
| Kiandra | | 1957-1972 | 63 | 68 | 72 | 75 | 85 | 89 | 88 | 87 | 71 | 64 | 58 | 64 | 71 |
| Marble Bar . | | 1957-1971 | 40 | 44 | 38 | 31 | 32 | 43 | 36 | 30 | 24 | ži | 22 | 28 | 32 |
| Melbourne . | | 1907-1971 | 60 | 63 | 66 | 72 | 79 | 83 | 81 | 75 | 68 | 63 | 60 | 60 | 69 |
| Mildura | - | 1957-1971 | 49 | 52 | 59 | 69 | 82 | 87 | 88 | 81 | 69 | 56 | 48 | 48 | 63 |
| Mundiwindi . | | 1957-1972 | 28 | 35 | 30 | 35 | 40 | 50 | 46 | 37 | 28 | 17 | 19 | 21 | 30 |
| Perth | | 1911-1940 | 51 | 51 | 57 | 61 | 70 | 75 | 76 | 71 | 66 | 60 | 52 | 51 | 62 |
| Sydney | | 1876-1971 | 68 | 70 | 74 | 74 | 75 | 76 | 74 | 68 | 66 | 62 | 62 | 64 | 69 |
| Thursday Island | | 1957~1971 | 84 | 86 | 85 | 81 | 82 | 80 | 79 | 79 | 75 | 73 | 73 | žż | 80 |
| Townsville . | : | 1957-1971 | 69 | 75 | 73 | 68 | 66 | 66 | 64 | 63 | 56 | 58 | 62 | 64 | 65 |

Sunshine, cloud and fog

Sunshine. Sunshine as treated here refers to bright or direct sunshine. Australia receives relatively large amounts of sunshine although seasonal cloud formations have a notable effect on its spatial and temporal distribution. Cloud cover reduces both incoming and outgoing radiation and thus affects sunshine, air temperature and other climatic elements at the earth's surface. Sunshine amounts at Australian capitals are included in the climatic tables, pages 63-70.

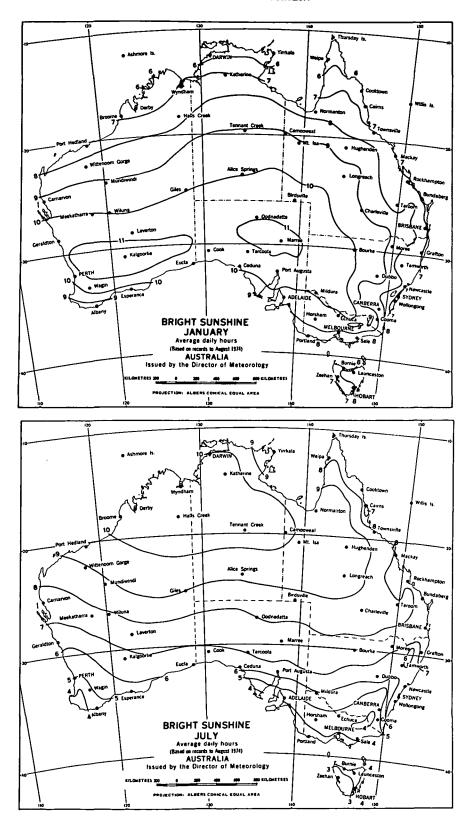
Average daily sunshine (hours) in January and July based on all available data to August 1974, is shown in plates 19 and 20, page 53. In areas where there is a sparsity of data, estimates of sunshine derived from cloud data were used. Most of the continent receives more than 3,000 hours of sunshine a year, or nearly 70 per cent of the total possible and in central Australia and the mid-west coast of Western Australia totals slightly in excess of 3,500 hours occur. Totals of less than 1,750 hours occur on the west coast and highlands of Tasmania; this amount is only 40 per cent of the total possible per year (about 4,380 hours).

In southern Australia generally the duration of sunshine is greatest about December when the sun is at its highest elevation and lowest in June when the sun is lowest. In northern Australia sunshine is generally greatest about August-October prior to the wet season and least about January-March during the wet season. The table gives the 20, 50 and 80 percentiles of daily bright sunshine for the months of June and December at selected stations. These values give an indication of the variability of daily sunshine hours. Perth for example, has a high variability of daily sunshine hours in the wet month of June (160 per cent) and a low variability in the dry month of December (30 per cent). Darwin has a low variability in the dry season month of June (15 per cent) and a high variability in the wet season month of December (85 per cent).

BRIGHT SUNSHINE, VARIABILITY OF DAILY HOURS, JUNE AND DECEMBER (20, 50 and 80 percentile values)

| | | | | June | | | December Percentile | | | | |
|---------------|--|--------------|---------|--------|------|------|---------------------|------|------|--|--|
| | | | Period | Percen | tile | | | | | | |
| Station | | of record | 20 | 50 | 80 | 20 | 50 | 80 | | | |
| Adelaide . | | | 1955-71 | 1.0 | 3.5 | 7.5 | 4.0 | 9.0 | 12.5 | | |
| Alice Springs | | | 1954-71 | 5.5 | 9.5 | 10.0 | 6.5 | 11.0 | 12.5 | | |
| Brisbane . | | | 1951-71 | 2.5 | 8.0 | 9.5 | 4.0 | 8.5 | 11.5 | | |
| Canberra . | | | 1957-71 | 2.0 | 5.0 | 7.0 | 4.0 | 9.5 | 12.0 | | |
| Darwin . | | | 1951-71 | 9.0 | 10.0 | 10.5 | 3.5 | 7.5 | 10.0 | | |
| Hobart | | | 1955-71 | 0.5 | 3.0 | 6.0 | 2.5 | 7.0 | 10.5 | | |
| Melbourne . | | | 1955-70 | 0.5 | 2.5 | 6.0 | 3.0 | 7.5 | 11.5 | | |
| Perth | | | 1945-71 | 1.0 | 4.0 | 7.5 | 8.5 | 11.0 | 12.0 | | |
| Sydney | | | 1955-71 | 0.5 | 6.0 | 8.0 | 1.5 | 7.5 | 11.0 | | |
| Townsville . | | · | 1957-71 | 4.5 | 9.0 | 10.0 | 5.0 | 9.5 | 11.0 | | |

Cloud. Seasonal changes in cloudiness vary with the distribution of rainfall. In the southern parts of the continent, particularly in the coastal and low lying areas, the winter months are generally more cloudy than the summer months. This is due to the formation of extensive areas of stratiform cloud and fog during the colder months, when the structure of the lower layers of the atmosphere favours the physical processes resulting in this type of cloud. Particularly strong seasonal variability of cloud cover exists in northern Australia where skies are clouded during the summer wet season and mainly cloudless during the winter dry season. Cloud coverage is greater near coasts and on the windward slopes of the eastern uplands of Australia and less over the dry interior.



PLATES 19 and 20

The average monthly cloud amounts at Australian capitals are included in the climatic tables, pages 63-70. Darwin has the least average daily coverage of 3.2 eighths and Hobart the highest daily average of 5.0 eighths. The highest daily average for any month occurs at Darwin (5.9 eighths for January) and the lowest average daily is also at Darwin (1.1 eighths for August).

Fog. The formation of fog depends on the occurrence of favourable meteorological elements—mainly temperature, humidity, wind and cloud cover. The nature of the local terrain is important for the development of fog and there is a tendency for this phenomenon to persist in valleys and hollows. The incidence of fog may vary significantly over distances as short as one kilometre.

Fog in Australia tends to be greater in the south than the north, although parts of the east coastal areas are relatively fog prone even in the tropics. Incidence is much greater in the colder months, particularly in the eastern uplands. Fog may persist during the day but rarely until the afternoon over the interior. The highest fog incidence at a capital city is at Canberra which has an average of 46 days per year on which fog occurs, 28 of which are in the period May to August. Brisbane averages 22 days of fog per year, 17 of which occur between April and September. Darwin averages only 3 days per year, June to September.

Global radiation

Global (short wave) radiation includes that radiation energy reaching the ground directly from the sun and that received indirectly from the sky, scattered downwards by clouds, dust particles, etc.

Plates 21 and 22, page 55, shows the average global radiation for the months of January and July. The table below shows the variability of daily global radiation for June and December (1968–72) at selected stations.

GLOBAL RADIATION: VARIABILITY OF DAILY AMOUNTS FOR JUNE AND DECEMBER

(mWh.cm-2)

(20, 50 and 80 percentile values in milliwatt hours per square centimetre (1964-68))

| | - | | June | | | December | | | | |
|---------------|---|--------------|--------|--------|-----|-------------|-----|-----|--|--|
| | | | Percen | itiles | | Percentiles | | | | |
| Station | | | 20 | 50 | 80 | 20 | 50 | 80 | | |
| Alice Springs | | - | 360 | 450 | 480 | 580 | 760 | | | |
| Darwin . | | | 520 | 570 | 590 | 440 | 570 | 620 | | |
| Melbourne | | | 130 | 190 | 240 | 470 | 640 | 780 | | |
| Perth . | | | 180 | 260 | 330 | 770 | 870 | 910 | | |
| Townsville | | | 360 | 490 | 510 | 550 | 710 | 760 | | |
| Williamtown | | | 210 | 270 | 330 | 490 | 650 | 780 | | |

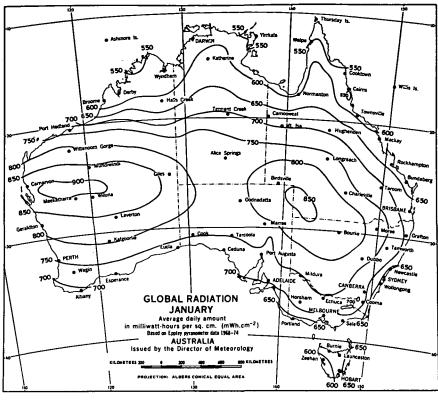
A high correlation exists between daily global radiation (plates 21 and 22, page 55) and daily hours of sunshine (plates 19 and 20, page 53). On the north-west-coast around Port Hedland, where average daily global radiation is the highest for Australia (640 milliwatt hours), average daily sunshine is also highest, being approximately 10 hours. Sunshine is more dependent on variations in cloud coverage than is global radiation, since the latter includes diffuse radiation from the sky as well as direct radiation from the sun. An example is Darwin where in the dry month of July sunshine approaches twice that of the wet (cloudy) month of January but global radiation figures for the two months are comparable.

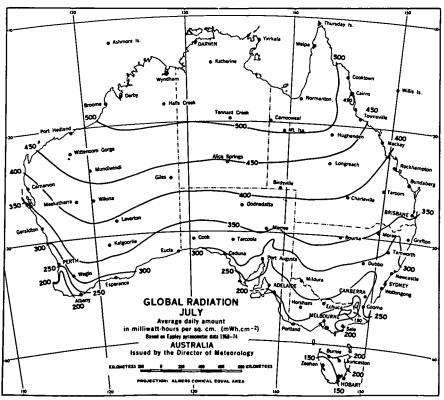
Evaporation

Evaporation is determined by measuring the amount of water evaporated from a free water surface exposed in a pan. Evaporation from a free water surface depends on a number of climatic elements, mainly temperature, humidity and wind. Evaporation data are useful in water conservation studies and in estimating potential evapotranspiration for irrigation and plant growth studies. In Australia, where surface water storage is vital over large areas, evaporation is a highly significant element.

Average annual Class A pan evaporation is mapped in plate 23, page 56 which shows a variation from 900 millimetres in southwest Tasmania to 4,500 millimetres in the dry interior of Western Australia with about 75 per cent of the continent exceeding 2,500 millimetres. In about 75 per cent of the continent, comprising most inland areas, rainfall does not exceed evaporation loss from a free water surface in any month of the year. In the central and north-west parts of the continent the annual evaporation exceeds ten times the rainfall.

CLIMATE OF AUSTRALIA





PLATES 21 and 22

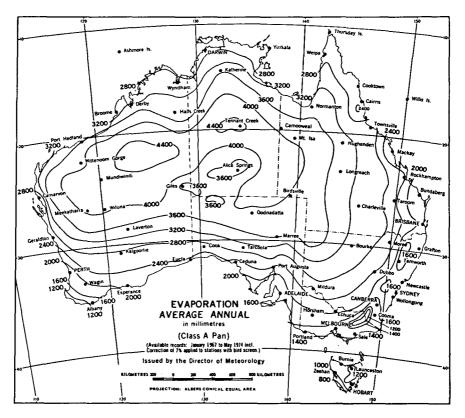


PLATE 23

Winds

The mid-latitude anticyclones are the chief determinants of Australia's two main prevailing wind streams. In relation to the west-east axes of the anticyclones these streams are easterly to the north and westerly to the south. The cycles of development, motion and decay of low pressure systems to the north and south of the anticyclones result in diversity of wind flow patterns. Wind variations are greatest around the coasts where diurnal land and sea breeze effects are important.

Orography affects the prevailing wind pattern in various ways such as the channelling of winds through valleys, deflection by mountains and cold air drainage from highland areas. An example of this channelling is the high frequency of north-west winds at Hobart caused by the north-west south-east orientation of the Derwent River Valley.

Average wind speeds and prevailing directions at Australian capitals are included in the climatic tables, pages 63-70. Perth is the windiest capital with an average wind speed of 15.6 kilometres per hour; Canberra is the least windy with an average speed of 5.8 kilometres per hour.

The highest wind speeds and wind gusts recorded in Australia have been associated with tropical cyclones. The highest recorded gust was 246 kilometres per hour during a cyclone at Onslow, Western Australia in 1975 and gusts reaching 200 kilometres per hour have been recorded on several occasions in northern Australia with cyclone visitations. The highest gusts recorded at Australian capitals were 217 kilometres per hour at Darwin and 156 kilometres per hour at Perth.

Estimates of the extreme wind gust expected in a given return period* have been derived for places throughout Australia (Whittingham, 1964). On this basis, for example, Darwin would have an extreme gust for a return period of 10 years of 140 kilometres per hour, Melbourne 135 and Perth 130.

^{*}Return period is the average period between successive occurrences equal to, or greater than, a given speed. For example the extreme wind gust for a return period of 10 years can be expected to occur once in 10 years on the average.

Floods

Widespread flood rainfall may occur anywhere in Australia but has a higher incidence in the north and in the eastern coastal areas. It is most economically damaging along the shorter streams flowing from the eastern uplands eastward to the seaboard of Queensland and New South Wales. These flood rains are notably destructive in the more densely populated coastal river valleys of New South Wales—the Tweed, Richmond, Clarence, Macleay, Hunter and Nepean-Hawkesbury—all of which experience relatively frequent flooding. Although chiefly summer rains, they may occur in any season.

The great Fitzroy and Burdekin river basins of Queensland receive flood rains during the summer wet season. Much of the run-off due to heavy rain in north Queensland west of the eastern uplands flows southward through the normally dry channels of the network of rivers draining the interior lowlands into Lake Eyre. This widespread rain may cause floods over an extensive area, but it soon seeps away or evaporates, occasionally reaching the lake in quantity. The Condamine and other northern tributaries of the Darling also carry large volumes of water from flood rains south through western New South Wales to the Murray and flooding occurs along their courses at times.

Flood rains occur at irregular intervals in the Murray-Murrumbidgee system of New South Wales and Victoria, the coastal streams of southern Victoria and the north coast streams of Tasmania.

Droughts

Drought in general terms refers to an acute water shortage. This is normally due to rainfall deficiency but with other parameters contributing to the actual water availability. The best single measure of water availability in Australia is rainfall, although parameters such as evaporation and soil moisture are significant, or even dominant, in some situations.

Droughts have severe economic effects in Australia and during the years 1864-1973 inclusive there have been at least eight major droughts affecting the greater part of Australia and at least seven other droughts of lesser severity affecting extensive areas (Foley 1957 (ii)). The droughts of 1895-1903 and 1958-68 were probably the most disastrous in their effects on primary industry.

Gibbs and Maher (1967), having defined a drought year at a certain station as one with the year's rainfall in the first decile range, concluded that the occurrence of areas in the first decile range on annual decile maps for the period 1885–1965 corresponded rather well with drought areas discussed by Foley (1957).

One method of assessing the incidence of rainfall deficiency is the analysis of the distribution of annual rainfalls less than the median (Gaffney 1975). The range between the 50 percentile (median) and the 10 percentile gives a measure of the variation in magnitude of annual rainfalls less than the median. The ratio of this range to the 30 percentile value may be used as an index of rainfall deficiency incidence or drought incidence, i.e.:

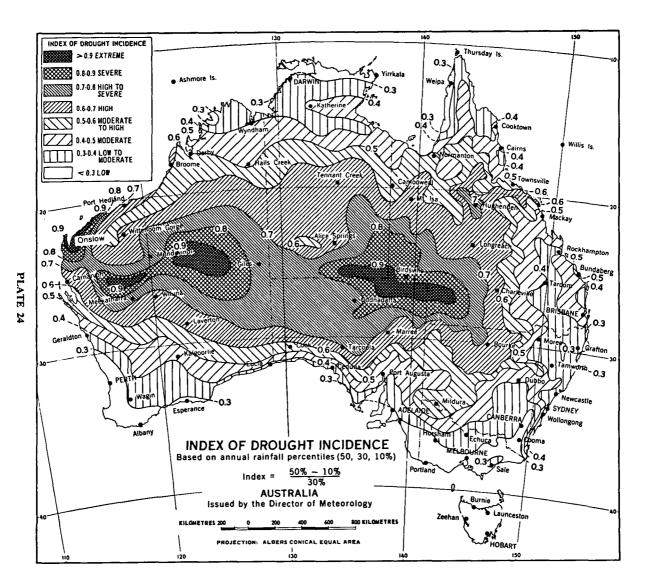
Index of drought incidence =
$$\left\{\frac{50-10}{30}\right\}$$
 percentile

For example, the indexes for Onslow (north-west coast of Western Australia) and similarly, for Cape Otway (south coast of Victoria) are derived thus:

Index for Onslow =
$$\left\{\frac{222 - 64}{145}\right\}$$
 mm = 1.09
Index for Cape Otway = $\left\{\frac{865 - 716}{801}\right\}$ mm = 0.19

Plate 24, page 58 shows the distribution of the index of drought incidence over Australia. The intrusions of high index values from the interior to the central cost of Queensland and across western New South Wales are noteworthy. The extreme values on the north-west coast of Western Australia are among the highest in Australia (e.g. Onslow 1.09) due to the dependence of the rainfall on random cyclone tracks.

The Bureau of Meteorology commenced the issue of *Drought Reviews* in June 1965. These seviews provide a summary of serious rainfall deficiencies and are issued monthly when serious or revere deficiencies exist in any of the rainfall districts. The deficiency criteria are based on monthly rainfall decile analyses. A review of droughts in Australia to 1968 is included in Year Book No. 54, 1968. Summaries of subsequent drought periods may be obtained from the Drought Reviews.



Climatic discomfort

In Australia climatic discomfort is significant in most areas. During the summer half of the year (November-April) prolonged high temperatures and humidity around the northern coasts and high temperatures over the inland cause physical stress. In winter, low temperatures and strong cold winds over the interior and southern areas can be severe for relatively short periods. However, cold stress does not cause prolonged physical hardship in Australia at altitudes lower than 1,000 metres, that is, over more than 99 per cent of the continent.

The climatic variables determining physical discomfort are primarily air temperature, vapour pressure and wind. The complete assessment of physical discomfort also requires analyses of such parameters as thermal conductivity of clothing, vapour pressure at the skin and the metabolic heat rate arising from activity of the human body. The cooling system of the human body depends on evaporation of moisture to keep body temperature from rising to lethal levels as air temperature rises. Defining criteria of discomfort is difficult because personal reactions to the weather differ greatly according to a number of variables including health, age, clothing, occupation and acclimatisation (Ashton 1964). However, climatic strain has been measured experimentally and discomfort indexes based on the average response of subjects under specified conditions have been derived.

Effective Temperature. The effective temperature with respect to any environmental combination of temperature, humidity and wind is defined as the temperature of still, saturated air in which a normally clothed sedentary worker would feel the same level of comfort or discomfort.

Environment studies carried out at the research laboratories of the American Society of Heating, Refrigerating and Air Conditioning Engineers established values of effective temperature corresponding to various combinations of temperature, humidity and air movement. The results were published as a series of research reports commencing in 1923, and have been widely used to measure climatic discomfort (see 1960 report of the Society).

Normally clothed sedentary workers are mostly comfortable within a range of effective temperatures between 15°C and 27°C (air movement 5-8 metres per minute). At effective temperatures greater than 27°C, the majority of people feel heat discomfort and when less than 15°C they feel cold discomfort.

The table below contains the annual average frequency of effective temperature at 3 p.m. within specified limits at selected stations. The figures provide comparisons of daily occurrence of afternoon discomfort for the given environmental conditions.

CLIMATIC DISCOMFORT: EFFECTIVE TEMPERATURE

Annual average frequency of days when effective temperature at 3 p.m. is lower than 15°C (cold discomfort), within 15-27°C (comfort), and higher than 27°C (heat discomfort). Indoors, normally clothed sedentary workers, air movement 5-8 metres per minute.

| | | - | | | Avera | ge days per y | vear |
|---------------|---|---|-------|---------------------|----------------------|---------------|-------------------------|
| Station | | | | Period of record | Less than 15°C | 15-27°C | Greater than 27°C |
| Adelaide | | | • | 1955-72 | 128 | 234 | 3 |
| Albury . | | | | 1962-71 | 141 | 220 | 4 |
| Alice Springs | | | | 1955-67 | 39 | 300 | 26 |
| Brisbane | | | | 1951-70 | 6 | 356 | 3 |
| Broome | | | | 1941-71 | 0 | 225 | 140 |
| Canberra | | | | 1940-72 | 172 | 192 | 1 |
| Carnarvon | | | | 1945~72 | 1 | 345 | 19 |
| Ceduna . | | | | 1955-71 | 77 | 279 | 9 |
| Charleville | | | | 1942-72 | 28 | 316 | 21 |
| Cloncurry | | | | 1940-72 | 1 | 268 | 96 |
| Darwin . | | | | 1955-69 | 0 | 225 | 140 |
| Hobart . | | | | 1944-67 | 239 | 126 | 0 |
| Kalgoorlie | | | | 1940-72 | 66 | 281 | 18 |
| Marble Bar | | | | 1957-71 | 0 | 220 | 145 |
| Melbourne | | | | 1955-71 | 155 | 207 | 3 |
| Mildura | | | | 1946-72 | 95 | 258 | 12 |
| Perth . | | | | 1944-71 | 57 | 302 | 6 |
| Rockhampto | n | | | 1940-72 | 2 | 337 | 26 |
| Sydney . | | | | 1955-72 | 69 | 295 | 1 |
| Townsville | | | | 1941-69 | 0 | 333 | 32 |
| Woomera | | | | 1954-72 | 73 | 279 | 13 |

Heat discomfort is greatest in the north-west, where Marble Bar averages 145 days of high heat discomfort annually; and least in the south-east, where Hobart has only one day every five years. Cold discomfort is least in the north, where Townsville has one day of cold discomfort in ten years; it is greatest in the south-east, where Hobart has 239 days annually when the effective temperature is sufficiently low to cause discomfort. By the suitable choice of clothing discomfort can be decreased significantly on cold days. On cold days also, workers tend to take opportunities to move around, thus increasing metabolic heat rates.

Effective temperature is a useful index but its application is limited because available criteria relate only to indoor workers in sedentary occupations. Furthermore, at lower air temperatures the effective temperature gives excessive weight to humidity.

Relative strain index. The relative strain index derived by Lee and Henschel (1963) has been applied in Australia to measure heat discomfort (Hounam, 1969, Gaffney 1973). The results obtained with Australian data are useful for purposes of comparison but interpretation of the actual results is tentative until empirical environmental studies are carried out in this region. In addition to temperature, humidity and air movement the relative strain index has facilities for incorporation of metabolic heat rate, net radiation and insulation of clothing. It has the advantage of being applicable to manual workers under shelter and expending energy at various metabolic heat rates.

The discomfort map plate 25, page 61 shows the average number of days per year when the relative strain index exceeds 0.3 discomfort level at 3 p.m. assuming standard conditions as defined. Maximum discomfort generally occurs around 3 p.m. on days of high temperature.

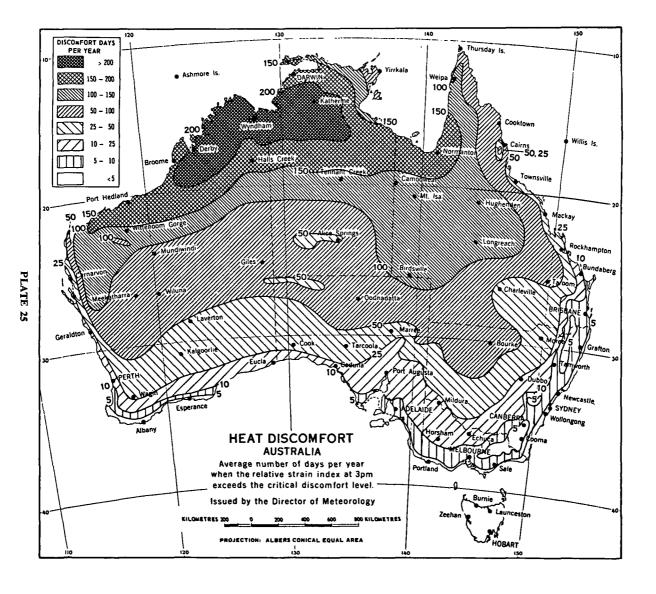
A notable feature is the lower frequency of days of discomfort in Queensland coastal areas in comparison with the northern coastal areas of Western Australia. This is due to the onshore winds prevailing on the Queensland coast and the cooling effect of the adjacent eastern uplands. Lower frequencies on the Atherton Plateau in the tropics near Cairns show the advantage of altitude. Relatively low heat discomfort frequencies are evident in upland and coastal areas of south-east Australia. Tasmania is entirely in the zone of least discomfort experiencing on the average less than one day of heat discomfort per year. In Western Australia most of the Kimberley region in the north lies in the highest discomfort zone with the frequencies decreasing southwards to a strip of lowest discomfort towards the south-west coast. A steep gradient of discomfort frequency on the west coast shows the moderating effect of sea breezes.

The average annual frequency of days when the relative strain index at 3 p.m. exceeds specified discomfort levels is shown in the table below. The Sydney frequencies were derived from observations at the Regional Office of the Bureau of Meteorology, which is representative of eastern coastal suburbs; frequencies are higher in western suburbs. The Melbourne frequencies were derived from observations at the Bureau's Regional Office, which may be taken as fairly representative of inner northern and eastern suburbs; frequencies are lower in bayside suburbs. Similarly in other capital city areas significant variations occur with distance from the coast, for example, at Perth.

HEAT DISCOMFORT

Average number of days per year when relative strain index (RSI) at 3 p.m. exceeds 0.3 (discomfort) and 0.4 (high discomfort) under standard conditions (indoors, manual activities, light clothing, air movement 60 metres per minute).

| | | | | | D : 1 C | Greate | r than |
|---------------|---|--------------------|--|--|---------------------|---------|---------|
| Station | | | | | Period of record | 0.3 RSI | 0.4 RSI |
| Adelaide | _ | - - | | | 1955-72 | 7 | 1 |
| Albury . | | | | | 1962~71 | 8 | 1 |
| Alice Springs | | | | | 1955-67 | 50 | 4 |
| Brisbane | | | | | 1951-69 | 6 | <1 |
| Broome. | | | | | 1940-72 | 155 | 48 |
| Canberra | | | | | 1940-72 | 2 | <1 |
| Carnarvon | | | | | 1945-72 | 23 | 3 |
| Ceduna. | | | | | 1955-71 | 16 | 3 |
| Charleville | | | | | 1942-72 | 42 | 3 |
| Cloncurry | | | | | 1940-72 | 126 | 28 |
| Darwin . | | | | | 1955-69 | 165 | 23 |
| Hobart . | | | | | 1944-67 | <1 | <1 |
| Kalgoorlie | | | | | 1939-72 | 30 | 5 |
| Marble Bar | | | | | 1957-71 | 173 | 69 |
| Melbourne | | | | | 1955-71 | 6 | 1 |
| Mildura | | | | | 1946-72 | 19 | 3 |
| Perth . | | | | | 1944-72 | 12 | 1 |
| Rockhamptor | 1 | | | | 1940-72 | 33 | 5 |
| Sydney . | | | | | 1955-72 | 2 | <1 |
| Townsville | | | | | 1941-69 | 36 | 4 |
| Woomera | | | | | 1954-72 | 25 | 3 |



The variability of the relative strain index in January by percentiles for 3 p.m. values at selected stations is shown in the table below. Melbourne has a significantly higher discomfort variability than Sydney, and Adelaide is more variable than Brisbane.

HEAT DISCOMFORT VARIABILITY, JANUARY

Relative strain index values at 3 p.m. not exceeded by 20, 50 and 80 per cent of all values. Indoors, lightly clothed manual workers, air movement 60 metres per minute.

| | | | | | | D : 1 C | | Percentiles | |
|---------------|----|---|---|---|---|------------------|--------|-------------|------|
| Station | | | | | | Period of record | 20 | 50 | 80 |
| Adelaide | | | | | | 1955-72 | < 0.10 | 0.10 | 0.25 |
| Albury . | • | | | ÷ | • | 1962-71 | 0.10 | 0.15 | 0.25 |
| Alice Springs | • | • | • | ÷ | • | 1955–67 | 0.25 | 0.30 | 0.35 |
| Brisbane | | · | | ÷ | • | 1951-70 | 0.10 | 0.15 | 0.25 |
| Broome | : | Ċ | | ÷ | • | 1940-72 | 0.30 | 0.40 | 0.45 |
| Canberra | • | • | • | · | | 1940-72 | < 0.10 | 0.10 | 0.20 |
| Carnarvon | • | • | • | · | • | 1945-72 | 0.15 | 0.20 | 0.30 |
| Ceduna . | • | Ċ | · | | · | 1955-71 | < 0.10 | 0.10 | 0.25 |
| Charleville | • | • | • | | · | 1942-72 | 0.20 | 0.30 | 0.35 |
| Cloncurry | : | Ċ | | | • | 1940-72 | 0.30 | 0.35 | 0.40 |
| Darwin . | : | · | • | | • | 1955-69 | 0.25 | 0.35 | 0.40 |
| Hobart . | • | Ċ | | : | • | 1944-67 | < 0.10 | < 0.10 | 0.10 |
| Kalgoorlie | • | • | • | • | • | 1939-72 | 0.15 | 0.25 | 0.35 |
| Marble Bar | • | : | : | : | • | 1957-71 | 0.35 | 0.45 | 0.50 |
| Melbourne | • | ÷ | : | · | • | 1955-71 | < 0.10 | 0.10 | 0.25 |
| Mildura | • | • | • | • | • | 1946-72 | 0.10 | 0.20 | 0.30 |
| Perth . | • | : | : | : | • | 1944-72 | < 0.10 | 0.15 | 0.25 |
| Rockhampton | 'n | | | | • | 1940-72 | 0.20 | 0.25 | 0.35 |
| Sydney . | | • | • | : | • | 1955-72 | < 0.10 | 0.10 | 0.15 |
| Townsville | • | • | • | : | ٠ | 1941-69 | 0.20 | 0.30 | 0.15 |
| Woomera | | | · | : | | 1954–72 | 0.15 | 0.25 | 0.35 |

At inland places, relatively low night temperatures have recuperative effects after hot days. Marble Bar, Western Australia (150 km south-east of Port Hedland) for example, has median night minimum temperatures 5-10° C lower than Darwin, except in December-February. Even in this latter period although median minima at both stations are around 25° C, Marble Bar has median vapour pressures and relative humidities much lower than Darwin (by 10 millibars and 30 per cent respectively).

Acclimatised people would suffer discomfort less frequently than shown by the relative strain index figures. For example, Australians living in the north evidently experience less discomfort at high air temperatures than those in the south, if humidities are comparable.

Both direction and speed of prevailing winds are significant for the ventilation of buildings. In the tropics windward slopes allow optimal air movement, for instance, enabling more comfortable ventilation to be obtained. Regular sea breezes such as those experienced at Perth reduce discomfort and their full benefit may not be experienced until after 3 p.m. on some days.

Climatic data for capital cities

The averages and extremes for a number of elements determined from long-period observations at the Australian capitals to 1975 inclusive, are given in the following pages. Extremes generally cover all available data whereas averages may only refer to present sites.

CLIMATIC DATA: PERTH, WESTERN AUSTRALIA

(Lat. 31° 57' S., Long. 115° 52' E. Height above M.S.L. 15 metres)

BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | Mean of 9 a,m. | Wind (he | ight of anemome | ter 22 meti | res) | | | | Mean daily amt | |
|---|--|---|---|--|---|---|--|---|--|---|
| | and 3 p.m. atmospheric pressure reduced to mean sea | Aver- age | Highest mean speed in one day | High- est gust speed | Prevailir direction | | Mean amt evapo- ration | No. days thun- | clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | level (mb) | (km/h) | (km/h) | (km/h) | 9 a.m. | 3 p.m. | (mm) | der | (a) | days |
| No. of years of record January February | 91 1,012.6 1,013.0 1,015.2 1,017.9 1,017.5 1,018.8 1,018.8 1,018.4 1,017.0 1,015.5 1,013.4 1,016.3 | 30(b) 17.5 17.2 16.2 13.7 13.5 14.2 15.1 16.1 17.7 15.6 | 42.3 27/98 40.8 4/73 34.6 6/13 50.7 25/00 44.5 8/73 48.6 17/27 53.9 20/26 51.3 15/03 45.9 11/05 43.0 6/16 41.4 /8/97 41.2 6/22 53.9 20/7/26 | 60 81 87 113 101 119 129 137 156 109 105 101 103 | 30(b) ENE ENE ENE NN NN ENE ENE ENE ENE E E E E | 30(b) SSW SSW SSW SSW SSW WNW WNW SSW SSW SSW | 9 280 241 214 124 83 59 58 75 105 158 205 241 1,843 | 79 0.9 0.7 0.7 0.9 1.8 1.5 1.3 0.7 0.8 0.8 0.9 | 30(b) 2.3 2.5 2.8 3.4 4.3 4.7 4.5 3.9 3.8 3.1 2.6 | 30(b) 14 13 12 9 6 5 5 5 6 8 8 9 13 108 |

(a) Scale 0-8. (b) Standard thirty years normal (1911-1940).

TEMPERATURE AND SUNSHINE

| | | perature da (°Celsius) | | Extreme air temp | erature & | Extreme tempero (°Celsius) | iture | Mean daily hours |
|---|--|---|--|--|--|---|--|--|
| Month | Mean max. | Mean min. | Mean | (°Celsius) Highest | Lowest | Highest in sun | Lowest on grass | sun- shine |
| No. of years of record . January . February . March . April . May . June . July . August . September . October . November . December . Vear { Averages . Extremes . | 79 29.5 29.8 27.8 24.4 20.6 18.1 17.3 17.9 19.4 21.2 24.5 27.3 23.2 | 79 17.6 17.8 16.5 14.0 11.5 9.9 9.0 9.1 10.1 11.4 13.8 16.1 | 79 23.5 23.7 22.2 19.2 16.1 14.1 13.2 13.5 14.8 16.3 19.2 21.7 | 79 43.7 29/56 44.6 8/33 41.3 14/22 37.6 9/10 32.4 2/07 28.1 5/75 24.7 21/21 27.8 21/40 32.7 30/18 37.3 29/67 40.3 24/13 42.3 31/68 | 9.2 20/25 8.7 1/02 7.7 8/03 4.1 20/14 1.3 11/14 1.6 22/55 1.2 7/16 1.9 31/08 2.6 6/56 4.2 6/68 5.6 1/04 8.6 29/57 | 63(a) 80.7 22/14 78.7 4/34 75.0 19/18 69.4 8/16 63.3 4/25 57.5 9/14 56 2 13/15 62.3 29/21 67.5 29/16 71.8 19/54 75.0 30/25 76.0 11/27 | 78 4.2 20/25 4.3 1/13 2.6 (b) -0.7 26/60 -3.9 31/64 -3.4 27/46 -3.8 30/20 -3.0 18/66 -2.7 (c) -1.2 16/31 -1.1 6/71 3.3 29/57 -3.9 | 78 10.5 10.0 8.9 7.2 5.3 6.2 7.2 7.2 10.8 |

(a) Records discontinued 1963.

(b) 8/1903 and 16/1967.

967. (c) 8/1952 and 6/1956.

HUMIDITY, RAINFALL, AND FOG

| | Vapour | | | | Rainfall | (millimetre | es) | | | | | | |
|--------------------------|---|---------|-----------------|----------------|---------------|--------------------|-----|-------------------|---|-----------------|---|---------------|-------------|
| | pres- sure mean | Rel. hu | m. (%) a | t 9 a.m. | | Mean No. | | | , | | G. | eatest | Fog Mean |
| Month | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | | reatest onthly | m | Least onthly | | in one day | No. days |
| No. of years of record . | 30(a) | 30(a) | 79 | 79 | 100 | 100 | | 100 | | 100 | | 100 | 79 |
| January | 14.8 | 51 | 63 | 41 | 8 | 3 | 55 | 1879 | Nil | (b) | 44 | 27/79 | 0.2 |
| February | 14.7 | 51 | 65 | 43 | 11 | 3 | 166 | 1955 | Nil | (b) | 87 | 17/55 | 0.3 |
| March | 14.7 | 57 | 66 | 46 | 20 | 4 | 145 | 1934 | Nil | (b) | 77 | 9/34 | 06 |
| April | 13.4 | 61 | 75 | 51 | 46 | 8 | 149 | 1926 | Nil | 1920 | 67 | 30/04 | 0.9 |
| May | 12.4 | 70 | 81 | 60 | 125 | 14 | 308 | 1879 | 14 | 1964 | 76 | 17/42 | 1.3 |
| June | 11.4 | 75 | 85 | 68 | 185 | 17 | 476 | 1945 | 55 | 1877 | 99 | 10/20 | 1.4 |
| July | 10.9 | 76 | 88 | 69 | 175 | 18 | 425 | 1958 | 61 | 1876 | 76 | 4191 | 1.6 |
| August | 10.7 | 7Ĭ | 83 | 62 | 138 | 18 | 318 | 1945 | 12 | 1902 | 74 | 14/45 | 10 |
| September | 11.6 | 66 | 75 | 58 | 81 | 14 | 199 | 1923 | · 9 | 1916 | 47 | 18/66 | 0.3 |
| October | 11.7 | 60 | 75 | 52 | 55 | ĨĬ | 200 | 1890 | 1 | 1969 | 50 | 4/67 | 0.4 |
| November | 12.7 | 52 | 66 | 41 | 21 | 6 | 71 | 1916 | Nil | 1891 | | 29/56 | 0.2 |
| December | 13.9 | 51 | 63 | 39 | 14 | 4 | 81 | 1951 | Nil | (b) | 47 | 3/51 | 0.2 |
| Totals . | | | | | 879 | 12Ô | | | • | | | | 8.1 |
| Year Averages | 12.7 | 62 | •• | • • • | | | | | | | • | | |
| Extremes | • | | 88 | 39 | :: | :: | 476 | 6/1945 | Nii | (b) | 99 |)/6/20 | :: |

(a) Standard thirty years normal (1911-1940).

(b) Various years.

Figures such as 27/98, 29/56, etc. indicate, in respect of the month of reference, the day and year of the occurrence. Dates in italics relate to nineteenth century.

CLIMATE AND PHYSICAL GEOGRAPHY OF AUSTRALIA

CLIMATIC DATA: DARWIN, NORTHERN TERRITORY

(Lat. 12° 28' S., Long. 130° 51' E. Height above M.S.L. 30 metres)

BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | Mean of 9 a.m. | Wind (he | ight of anemome | ter 36 meti | es) | | | | Mean daily | |
|--------------------------|--|----------|-------------------------------------|-------------------------------|------------------------|--------|---------------------------------|----------------------|---|--------------|
| | and 3 p.m. atmospheric pressure reduced to mean sea | Aver- | Highest mean speed in one day | High- est gust speed | Prevailin direction | | Mean amt evapo- ration | No. days thun- | amt clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | level (mb) | (km/h) | (km/h) | (km/h) | 9 a.m. | 3 p.m. | (mm) | der | (a) | days |
| No. of years of record . | 90 | 20 | | 22(b) | | | 8 | 35 | 35 | 35 |
| January | 1,006.2 | 9.3 | | 106 | w | NW | 225 | 12.9 | 5.9 | ī |
| February | 1,006.3 | 10.6 | | 101 | w | NW | 187 | 10.2 | 5.8 | i |
| March | 1,007.2 | 7.5 | | 157 | w | NW | 190 | 10.6 | 5.2 | 3 |
| April | 1,009.3 | 8.8 | | 67 | SE | ÑŴ | 218 | 4.0 | 2.5 | 10 |
| May | 1,010.9 | 9.6 | | 62 | SE | E | 223 | 0.5 | 2.0 | iš |
| June | 1,012.2 | 10.1 | | 64 | ŠĒ | Ē | 206 | 0.0 | 1.4 | iš |
| July | 1,012.8 | 8.9 | | 62 | SE | Ē | 229 | 0.0 | 1.3 | 20 |
| August | 1,012.6 | 8.6 | :: | 72 | SE | NŴ | 238 | 0.0 | 1.1 | 20 |
| September | 1.011.7 | 8.6 | :: | 64 | ENE | NW | 270 | 1.0 | 1.8 | 16 |
| October | 1,010.5 | 9.8 | | 85 | NE | NW | 285 | 5.3 | 2.7 | - 9 |
| November | 1,008.7 | 8.6 | | 117 | NW | NW | 260 | 11.8 | 3.9 | á |
| December | 1,006.9 | 9.8 | | 217 | NW | ÑŴ | 240 | 14.2 | 4.9 | 2 |
| Totals | • | | •• | | | | 2,773 | 70.5 | | 121 |
| Year Averages | 1,009.6 | 9.2 | •• | • • | SÉ | NW | | | 3.2 | |
| Extremes | • | | •• | 157 | | _ | • • • | • • | | • • |
| (==== i | • • | • • • | • • | -0, | • • • | • • • | | • • | • • | • • |

(a) Scale 0-8. (b) Several incomplete years.

TEMPERATURE AND SUNSHINE

| | Air tem readings | perature da (°Celsius) | iily | Extreme air tem (°Celsius) | perature | Extreme temperatus (°Celsius) | re | Mean daily hours |
|--------------------------|---------------------|---------------------------|------|-------------------------------|-------------------|----------------------------------|-----------------|------------------------|
| Month | Mean max. | Mean min. | Mean | Highest | Lowest | Highest in sun | Lowest on grass | sun- shine |
| No. of years of record . | 90 | 90 | 90 | 92(a) | 92(a) | 26(b) | | 21 |
| January | 32.2 | 25.0 | 28.6 | 37.8 <i>2 82</i> | 20.0 <i>20/92</i> | 75.6 26/42 | | 5.9 |
| February | 31.9 | 24.8 | 28.4 | 38.3 20187 | 17.2 25/49 | 73.2 (c) | | 5.9 |
| Moreh | 32.4 | 24.8 | 28.6 | 38.9 (d) | 19.2 31/45 | 74.3 23/38 | | 6.8 |
| A mail | 33.1 | 24.2 | 28.7 | 40.0 7/83 | 16.0 11/43 | 72.8 1/38 | | 8.6 |
| Man | 32.3 | 22.4 | 27.4 | 39.1 8/84 | (e)14.2 28/67 | 71.2 5/20 | | 9.3 |
| | 30.9 | 20.4 | 25.7 | 39.0 17/37 | 12.1 23/63 | 68.5 2/16 | | 9.7 |
| June July | 30.4 | 19.6 | 25.1 | 36.7 17/88 | 10.4 29/42 | 68.9 28/17 | | 9.8 |
| | 31.4 | 20.8 | 26.1 | 37.0 <i>30/71</i> | 13.6 11/63 | 69.1 28/16 | | 10.4 |
| August | 32.7 | 23.2 | 27.9 | 38.9 20/82 | 16.7 9/63 | 69.5 (f) | | 10.0 |
| September | | | 29.3 | 40.5 17/92 | 19.4. 8/66 | 71.4 30/38 | • • | 9.5 |
| October | 33.6 | 25.0 | | | 19.3 4/50 | 77.0 14/37 | • • • | 8.6 |
| November | 33.8 | 25.3 | 29.6 | 39.6 9/84 | | | ••• | 7.1 |
| December | 33.2 | 25.3 | 29.3 | 38.9 <i>20 82</i> | 18.3 4/60 | 76.2 26/23 | • • | 8.5 |
| Van Averages | 32.3 | 23.3 | 27.9 | | | · <u>·</u> · · · | • • | 8.5 |
| Year { Extremes | | • • | •• | 40.5 17/10/1892 | 10.4 29/7/1942 | 77.0 14/11/37 | • • • | • • |

⁽a) Years 1882-1941 at Post Office, 1942-1966 at Aerodrome; 1967-1971 at Regional office; sites not strictly comparable. (b) Records discontinued 1942. (c) 5/1938 and 23/1938. (d) 26/1883 and 27/1883. (e) Recorded at Darwin Aerodrome. All other Statistics from 1967 to 1971 at Regional Office. (f) 28/1916 and 3/1921.

HUMIDITY, RAINFALL, AND FOG

| | | | Vapour | | | | Rainfall | (millimetr | es) | | | |
|-----------------|------|------|-----------------------|----------|-----------------|---|---------------|--------------------|---------------------|------------------|------------------|-------------|
| | | | pres- sure mean | Rel. hui | m. (%) a | t 9 a.m. | | Mean No. | | | Greatest | Fog Mean |
| Month | | | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | Greatest monthly | Least monthly | in one day | No. days |
| No. of years of | reco | rd . | 85(a) | 90 | 57(b) | 57(b) | 86(c) | 74 | 107(d) | 107(d) | 107(d) | 35 |
| January . | | | 31.1 | 81 | 89 | 69 | 391 | 19 | 746 1974 | 68 1906 | 296 7/9 <i>7</i> | 0.0 |
| February . | | | 31.1 | 81 | 88 | 71 | 330 | 18 | 815 1969 | 13 1931 | 279 18/55 | 0.0 |
| March . | | | 30.7 | 80 | 84 | 69 | 260 | 17 | 595 1965 | 21 1911 | 182 6/19 | 0.0 |
| April | | | 27.0 | 72 | 80 | 60 | 103 | 8 | 603 1891 | Nil 1950 | 158 4/59 | 0.0 |
| May | | | 21.8 | 65 | 76 | 49 | 14 | i | 299 1968 | Nil (e) | 56 6/22 | 0.0 |
| June | | | 18.7 | 63 | 75 | 52 | 3 | 0 | 76 1973 | Nil (e) | 36 0/02 | 0.4 |
| July | | | 17.6 | 62 | 71 | 47 | 1 | 0 | 65 1900 | Nil (e) | 43 12/00 | 1.1 |
| August . | | | 20.6 | 66 | 73 | 53 | 2 | 0 | 84 1947 | Nil (e) | 80 2/47 | 0.8 |
| September , | | | 24.7 | 68 | 73 | 54 | 13 | 2 | 108 1942 | Nil (e) | 71 21/42 | 0.2 |
| October . | | | 27.7 | 68 | 72 | 60 | 50 | 5 | 339 1954 | Nil (e) | 95 28/56 | 0.0 |
| November . | | | 29.3 | 70 | 75 | 62 | 126 | 11 | 399 1938 | 10 1870 | 120 19/51 | 0.0 |
| December . | | | 30.5 | 75 | 83 | 65 | 243 | 16 | 616 1974 | 25 1934 | 200 28/10 | 0.0 |
| Totals | | | | | | | 1,536 | 97 | | | ,10 | 2.5 |
| Year \ Averages | | | 25.9 | 71 | | • | -, | | | | | |
| Extremes | • | | | •• | 89 | 47 | •• | :: | 815 2/69 | Nii (f) | 296 7/1/1897 | :: |

⁽a) Records to 1966 at Aerodrome. (b) 1882 to 1938 at Post Office. (c) 1869 to 1962 at Post Office; 8 years missing. (d) Highest or lowest at either Post Office, Aerodrome or Regional Office Sites. (e) Various years. (f) April to October. Various years. Figures such as 2/82, 26/42, etc., indicate in respect of the month of reference, the day and year of occurrence. Dates in italics relate to nineteenth century.

CLIMATE OF AUSTRALIA

CLIMATIC DATA: ADELAIDE, SOUTH AUSTRALIA (Lat. 34° 46' S., Long. 138° 35' E. Height above M.S.L. 43 metres) BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | | | 16 0 Em | _ Wind (he | ight of anemon | ieter 22 <u>m</u> e | tres) | | | | Mean daily | |
|-------------------|-------|----|--|------------|----------------------------------|---------------------|------------------------|--------|---------------------------------|----------------------|---|--------------|
| | | | Mean of 9 a.m. and 3 p.m. atmospheric pressure reduced to mean sea | Aver- | Highes mean spee in one da | d gust | Prevailin direction | | Mean amt evapo- ration | No. days thun- | amt clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | | | level (mb) | (km/h) | (km/l | | 9 a.m. | 3 p.m. | (mm) | der | (a) | days |
| No. of years of r | есого | 1. | 119 | 20(b) | 20(b) | 59 | 30(c) | 30(c) | 9 | 104 | 108 | 61 |
| January . | | | 1,013.2 | 12.8 | 32.2 12/7 | | SW | SW | 261 | 1.5 | 3.0 | 12.0 |
| February . | | | 1,014.3 | 12.1 | 28.8 25/6 | | NE | sw | 224 | 1.1 | 3.0 | 10.7 |
| March . | | | 1,017.2 | 11.4 | 30.7 24/6 | | S | sw | 180 | 0.8 | 3.3 | 10.7 |
| April | | | 1,019.8 | 11.4 | 37.4 10/5 | 6 130 | NE | sw | 126 | 1.0 | 4.2 | 6.8 |
| May | | | 1,020.1 | 11.3 | 37.8 19/5 | | NE | NW | 80 | 1.0 | 4.7 | 4.5 |
| June | | | 1,019.8 | 11.6 | 29.7 16/7 | 108 | NE | N | 57 | 0.9 | 5.0 | 3.8 |
| July | | | 1,019.9 | 11.8 | 32.9 13/6 | 1 148 | NE | NW | 61 | 0.8 | 4.9 | 3.5 |
| August . | | | 1,019.0 | 12.8 | 38.2 8/5 | | NE | SW | 76 | 1.1 | 4.2 | 4.7 |
| September . | | | 1,017.6 | 13.2 | 34.9 16/6 | | NNE | ŚW | 113 | 1.3 | 4.3 | 5.5 |
| October . | : | · | 1,016.0 | 13.6 | 35.4 1/6 | | NNE | SW | 169 | 1.9 | 4.2 | 5.6 |
| November . | • | • | 1,015.1 | 13.9 | 36.3 14/6 | | SW | SW | 202 | 2.0 | 3.9 | 6.5 |
| December . | : | : | 1,013.3 | 13.5 | 31.1 18/6 | | šw | św | 247 | 1.5 | 3.4 | 8.8 |
| Totals | | | | | | | | | 1,795 | 14.9 | | 83.1 |
| Year { Averages | | | 1,017.1 | | | | NE | SW | | | 4.0 | |
| Extremes | | | · | | 38.2 8/8/6 | 5 148 | | | | | | |

(a) Scale 0-8.

(b) Records of cup anemometer.

(c) Standard 30 years normal (1931-1960).

TEMPERATURE AND SUNSHINE

| | | perature da s (°Celsius) | ily | Extreme air tempe (°Celsius) | erature | Extreme tempera (°Celsius) | ture | Mear dails hours |
|--------------------------|--------------|-----------------------------|------|---------------------------------|---------------------|-------------------------------|-----------------|------------------------|
| Month | Mean max. | Mean min. | Mean | Highest | Lowest | Highest in sun | Lowest on grass | sun- shine |
| No. of years of record . | 119 | 119 | 119 | 119 | 119 | 54(a) | 115 | 94 |
| January | 29.6 | 16.4 | 23.0 | 47.6 12/39 | 7.3 21/84 | 82.3 18/82 | 2.5 14/79 | 9.9 |
| February | 29.4 | 16.6 | 23.0 | 45.3 <i>12 99</i> | 7.5 23/18 | 76.9 10/00 | 2.1 23/26 | 9.3 |
| March | 26.9 | 15.1 | 21.0 | 43.6 9/34 | 6.6 21/33 | 78.9 <i>17 83</i> | 0.1 21/33 | 7.9 |
| April | 22.7 | 12.7 | 17.7 | 37.0 5/38 | 4.2 15/59 | 68.3 <i>1/83</i> | $-2.2 \ 14/63$ | 6.0 |
| May | 18.7 | 10.3 | 14.5 | 31.9 4/21 | 2.7 (b) | 64.6 12/79 | -3.6 	19/28 | 4.8 |
| June | 15.8 | 8.3 | 12.1 | 25.6 4/57 | 0.3 (c) | 59.3 <i>18179</i> | -6.1 24/44 | 4.2 |
| July | 15.0 | 7.3 | 11.1 | 26.6 29/75 | 0.0 24/08 | 56.9 <i>26190</i> | -5.5 30/29 | 4.3 |
| August | 16.4 | 7.8 | 12.1 | 29.4 31/11 | 0.2 17/59 | 60.0 31/92 | $-5.1 \ 11/29$ | 5.3 |
| September | 18.9 | 9.0 | 14.0 | 35.1 30/61 | 0.4 4/58 | 71.4 23/82 | $-3.9 \ 25/27$ | 6.2 |
| October | 22.0 | 10.9 | 16.5 | 39.4 21/22 | 2.3 20/58 | 72.2 30/21 | -3.0 22/66 | 7.2 |
| November | 25.2 | 12.9 | 19.1 | 45.3 21/65 | 4.9 2/09 | 74.9 20178 | -0.3 2/09 | 8.6 |
| December | 27.8 | 14.9 | 21.4 | 45.9 29/31 | $6.1 \frac{2}{(d)}$ | 79.8 7/99 | 0.3 4/84 | 9.4 |
| Year Averages | 22.4 | 11.8 | 17.1 | •• | •• | | | 6.9 |
| Extremes | • • | • • | • • | 47.6 12/1/39 | 0.0 24/7/08 | 82.3 18/1/62 | -6.1 24/6/44 | • • |

(a) Discontinued 1934, incomplete 1931-1934.

(b) 26/1895 and 24/04.

(c) 27/1876 and 24/44.

(d) 16/1861 and 4/06.

HUMIDITY, RAINFALL, AND FOG

| | Vapour | | | | Rainfall | (millimetre | ?s) | | | | | | |
|--------------------------|-----------------------|----------|-----------------|----------------|---------------|--------------------|------------|----------------|-----|------------------|-------|---------------|-------------|
| | pres- sure mean | Rel. hu. | m. (%) a | 1 9 a.m. | | Mean No. | | | | | G | reatest | Fog Mean |
| Month | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | | atest nthly | n | Least ionthly | Ů. | in one day | No. days |
| No. of years of record . | 108 | 108 | 108 | 108 | 137 | 137 | | 137 | | 137 | | 137 | 76 |
| January | 11.9 | 41 | 59 | 29 | 20 | 4 | 84 | 1941 | Nil | (a) | 58 | 2/89 | 0.0 |
| February | 12.5 | 44 | 61 | 30 | 21 | 4 | 155 | 1925 | Nil | (a) | 141 | 7/25 | 0.0 |
| March | 12.0 | 47 | 62 | 29 | 24 | 5 | 117 | 1878 | Nil | (a) | 89 | 5/78 | 0.0 |
| April | 11.5 | 57 | 72 | 37 | 44 | 9 | 154 | 1971 | Nil | 1945 | 80 | 5/60 | 0.0 |
| May | 10.8 | 67 | 77 | 49 | 69 | 13 | 197 | 1875 | 3 | 1934 | 70 | 1/53 | 0.4 |
| June | 10.0 | 75 | 84 | 63 | 72 | 15 | 218 | 1916 | 6 | 1958 | 54 | 1/20 | 1.1 |
| July | 9.5 | 76 | 87 | 66 | 67 | 16 | 138 | 1890 | 10 | 1899 | 44 | 10/65 | 1.3 |
| August | 9.7 | 70 | 80 | 54 | 62 | 16 | 157 | 1852 | 8 | 1944 | 57 | 19 51 | 0.6 |
| September | 10.0 | 61 | 72 | 44 | 51 | 13 | 148 1 | 1923 | 7 | 1951 | 40 | 20/23 | 0.2 |
| October | 10.2 | 52 | 67 | 29 | 44 | 11 | 133 | 1949 | 1 | 1969 | 57 | 16/08 | 0.0 |
| November | 10.5 | 45 | 64 | 31 | 31 | 8 | 113 | 1839 | 1 | 1963 | 75 | 12/60 | 0.0 |
| December | 11.3 | 42 | 56 | 31 | 26 | 6 | 101 | 1861 | Nil | 1904 | 61 | 23/13 | 0.0 |
| Totals | | | | | 531 | 120 | | | | | | | 3.6 |
| Year { Averages | 10.5 | 56 | | | | | | | | | . : : | | |
| Extremes | •• | •• | 87 | 29 | • • | • • | 218 6/1 | 1916 | Nil | (b) | 141 | 7/2/25 | •• |

(a) Various years. (b) December to April, various years.

Figures such as 3/55, 21/84, etc. indicate, in respect of the month of reference, the day and year of the occurrence. Dates in italics relate to nineteenth century.

CLIMATIC DATA: BRISBANE, QUEENSLAND

(Lat. 27° 28' S., Long. 153° 2' E. Height above M.S.L. 41 metres)

BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | | Mean of 9 a.m. | Wind (he | ight of anemome | ter 32 meti | res) | | | | Mean daily amt | |
|----------------------------------|-------|--|--------------|-------------------------------------|---|------------------------|--------|---------------------------------|----------------------|--|--------------|
| | | and 3 p.m. atmospheric pressure reduced to mean sea | Aver- age | Highest mean speed in one day | High- est gust speed | Prevailir direction | | Mean amt evapo- ration | No. days thun- | clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | | level (mb) | (km/h) | (km/h) | (km/h) | 9 a.m. | 3 p.m. | (mm) | der | (a) | days |
| No. of years of I | ecord | | 60 | 60 | 60 | 25(b) | 25(b) | 9 | 89 | 84 | 68 |
| January . | | . 1,011.7 | 12.1 | 31.8 23/47 | 109 | ŠĖ | ENE | 189 | 4.6 | 4.6 | 3.3 |
| February . | • | . 1,012.5 | 11.9 | 37.3 21/54 | 108 | SSW | ENE | 150 | 3.7 | 4.8 | 2.4 |
| March . | | 1,014.6 | 11.4 | 32.7 1/29 | 106 | SSW | ESE | 149 | 2.3 | 4.3 | 5.6 |
| April . | | . 1,017.3 | 10.5 | 26.8 3/25 | 104 | SW | ESE | 127 | 1.4 | 3.6 | 7.8 |
| May | | . 1,018.3 | 9.8 | 28.8 17/26 | 87 | ŞW | wsw | 89 | 0.6 | 3.3 | 10.0 |
| June | | . 1,018.5 | 10.0 | 30.5 14/28 | 95 | SW | wsw | 70 | 0.5 | 3.3 | 10.5 |
| July | | 1,018.8 | 9.7 | 35.4 13/54 | 111 | SW | wsw | 77 | 0.4 | 2.9 | 13.3 |
| August . | | . 1,018.8 | 10.0 | 23.8 4/35 | 100 | SW | NE | 105 | 1.4 | 2.6 | 13.5 |
| September . | | . 1,017.6 | 10.5 | 25.9 1/48 | 102 | SW | NE | 133 | 2.8 | 2.8 | 12.4 |
| October . | _ | . 1,015.9 | 11.1 | 25.3 1/41 | 100 | SSW | NE | 168 | 4.4 | 3.5 | 8.5 |
| November . | | . 1,014.1 | 11.4 | 24.9 10/28 | iii | SE | NE | 191 | 5.7 | 3.9 | 6.1 |
| December . | | 1,012.1 | 11.9 | 31.3 15/26 | 128 | SŠĒ | NE | 209 | 6.6 | 4.3 | 4.5 |
| Year { Totals Year { Averages | | 1,015.9 | 10.8 | | • | sw | ENÉ | 1,656 | 34.2 | 3.6 | 97.7 |
| Extremes | • | | ••• | 35.7 21/2/54 | 128 | -:: | ••• | | | •• | |

(a) Scale 0-8.

(b) 1950-1974.

TEMPERATURE AND SUNSHINE

| | | perature da s (°Celsius) | | Extreme air temp | oerature | Extreme tempera (°Celsius) | nture | Mean daily hours |
|-------------------------|--------------|-----------------------------|------|-------------------|------------------|-------------------------------|-------------------|------------------------|
| Month | Mean max. | Mean min. | Mean | Highest | Lowest | Highest in sun | Lowest on grass | sun- shine |
| No. of years of record. | 89 | 89 | 89 | 89 | 89 | 50(a) | 89 | 67 |
| January | 29.4 | 20.6 | 25.0 | 43.2 26/40 | 14.9 <i>4193</i> | 76.2 2/37 | 9.9 4/93 | 7.5 |
| February | 28.9 | 20.4 | 24.7 | 40.9 21/25 | 14.7 21/31 | 74.0 6/10 | 9.5 22/31 | 7.0 |
| March | 27.8 | 19.2 | 23.5 | 38.8 13/65 | 11.3 29/13 | 72.5 6/39 | 7.4 29/13 | 6.8 |
| April | 26.0 | 16.4 | 21.2 | 36.1 19/73 | 6.9 25/25 | 67.7 11/16 | 2.6 24/25 | 7.1 |
| May . | 23.1 | 13.1 | 18.0 | 32.4 21/23 | 4.8 30/51 | 63.9 1/10 | -1.2 8/97 | 6.8 |
| June | 20.8 | 10.7 | 15.7 | 31.6 19/18 | 2.4 29/08 | 57.8 3/18 | $-3.7 \ 23/88$ | 6.6 |
| Tester | 20.3 | 9.4 | 14.9 | 29.1 23/46 | 2.3 (b) | 63.4 20/15 | -4.5 11/90 | 7.0 |
| August | 21.8 | 10.0 | 15.9 | 32.8 14/46 | 2.7 13/64 | 61.1 20/17 | -2.7 9/99 | 7.8 |
| September | 24.0 | 12.7 | 18.3 | 38.3 22/43 | 4.8 1/96 | 68.6 26/03 | -0.9 	 1/89 | 8.3 |
| October | 26.1 | 15.8 | 20.9 | 40.7 30/58 | 6.3 3/99 | 69.7 31/18 | 1.6 8/89 | 8.2 |
| November | 27.8 | 17.9 | 22.9 | | | | 3.8 1/05 | 8.2 |
| | 29.1 | | | | 9.2 2/05 | | | 8.1 |
| December | | 19.6 | 24.5 | 41.1 <i>26/93</i> | 13.5 5/55 | 74.4 28/42 | 9.5 <i>3 94</i> | |
| Year \ Averages | 25.4 | 15.5 | 20.5 | | | | | 7.5 |
| Extremes | • • | •• | ••• | 43.2 26/1/1940 | 2.3 | 76.2 2/1/1937 | -4.5 11/7/1890 | •• |

(a) 1887-1926, 1936-March 1947.

(b) 12/1894 and 2/1896.

HUMIDITY, RAINFALL, AND FOG

| | | Vapour | | | | Rainfall | (millimetr | res) | | | |
|---------------------|-------|-----------------------|----------|-----------------|----------------|---------------|--------------------|------------------------|---------------------|------------------------------|-------------|
| | | pres- sure mean | Rel. hu | m. (%) a | t 9 a.m. | | Mean No. | | | Greatest | Fog Mean |
| Month | | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | Greatest monthly | Least monthly | in one day | No. days |
| No. of years of rec | ord . | 64 | 89 | 89 | 89 | 124 | 116 | 123 | 123 | 123 | 89 |
| January February | • | 21.7 22.0 | 65 | 79 | 53 | 167 | 13 | 872 1974 | 8 1919 15 1849 | 465 <i>21 87</i> 270 6/31 | 0 5 0.6 |
| March | • | 20.9 | 69 71 | 82 85 | 55 56 | 161 144 | 14 15 | 1,026 1893 865 1870 | 15 1849 Nil 1849 | 284 14/08 | 1.1 |
| April | | 17.5 | 70 | 80 | 56 | 88 | 11 | 388 1867 | 1 1944 | 178 3/72 | 2.1 |
| May | | 14.3 | 71 | 85 | 59 | 69 | ' ĝ | 352 1876 | Nil 1846 | 143 9/79 | 3.0 |
| June | | 12.1 | 72 | 84 | 54 | 69 | 8 | 647 1967 | Nil 1847 | 283 12/67 | 2.9 |
| July | | 11.1 | 70 | 88 | 53 | 54 | 7 | 330 1973 | Nil (a) | 193 20/65 | 3.0 |
| August | | 11.7 | 66 | 80 | 53 | 48 | 7 | 373 1879 | Nil (b) | 124 <i>12 87</i> | 3.6 |
| September | | 13.8 | 63 | 76 | 47 | 48 | 8 | 138 1886 | 3 1907 | 79 12/65 | 2.5 |
| October | | 16.0 | 60 | 72 | 48 | 74 | 9 | 456 1972 | (c) 1948 | 136 25/49 | 1.2 |
| November | | 18.1 | 59 | 72 | 45 | 95 | 10 | 315 1917 | Nil 1842 | 143 8/66 | 0.5 |
| December | | 20.1 | 61 | 70 | 51 | · 129 | 12 | 441 1942 | 9 1865 | 168 <i>28 71</i> | 0.3 |
| ∫ Totals . | | : | :: | | | 1,157 | 123 | | | | 21.3 |
| Year \ Averages . | | 16.6 | 66 | 11 | 1.1 | | | :: | | | • • |
| Extremes . | • | | •• | 88 | 45 | | •• | 1,026 2/1893 | Nil Various | 465 21/1/1887 | |

⁽a) 1841 and 1951. (b) 1862, 1869 and 1880. (c) Less than 1 mm.

Figures such as 23/47, 4/93, etc. indicate, in respect of the month of reference, the day and year of the occurrence. Dates in italics relate to nineteenth century.

CLIMATIC DATA: SYDNEY, NEW SOUTH WALES

(Lat. 33° 52′ S., Long., 151° 12′ E. Height above M.S.L. 42 metres)

BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | | | | ın of 9 a.m. | Wind (height of anemometer 22 metres) | | | | | | | | Mean daily | |
|----------------|-------|------|---|--|---------------------------------------|--------------|-------------------------------|-------------------------------|------------------------|-----------|---------------------------------|----------------------|---|--------------|
| | | | | and 3 p.m. atmospheric sure reduced to mean sea | Aver- | mea | Highest n speed one day | High- est gust speed | Prevailir direction | | Mean amt evapo- ration | No. days thun- | amt clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | | | | level (mb) | (km/h) | | (km/h) | (km/h) | 9 a.m. | 3 p.m. | (mm) | der | (a) | days |
| No. of years o | f red | cord | | 66 1,012.7 | 25(b) | 20.1 | 25(b) | 25(b) | 25(b) | 25(b) | 84(c) | 56 3.3 | 114 | 65 |
| January . | • | | • | 1,014.2 | 12.3 | 30.3 30.3 | | 150 101 | NE NE | NÉ ENE | 189 142 | 2.5 | 4.7 4.8 | 4.9 4.5 |
| February . | • | | • | 1,014.2 | 11.6 10.5 | 33.3 | | 93 | WNW | ENE | 142 | 1.7 | 4.8 | 5.7 |
| March . | • | | • | 1,018.3 | 10.3 | 36.2 | | 116 | WINW | ENE | 108 | 1.3 | 4.1 | 7.3 |
| April | • | | • | 1,018.7 | 10.2 | 33.8 | | 101 | w | ENE | 85 | 0.9 | 3.9 | 7.7 |
| May | • | | • | 1,018.9 | 11.6 | 36.0 | | 135 | w | WSW | 58 | 0.8 | 4.0 | 6.6 |
| June | • | | • | 1 018.5 | 11.5 | 34.3 | | 106 | ŵ | WSW | 73 | 0.8 | 3.5 | 10.5 |
| July | • | | • | 1,017.9 | 12.1 | 39.6 | | 109 | wnw | WNW | 112 | 1.4 | 3.3 | 10.3 |
| August . | • | | | 1,017.0 | 11.6 | | | 113 | WNW | NE | 150 | 1.8 | 3.5 | 9.1 |
| September . | • | | • | | | 35.1 | | | | | | 2.7 | | 6.5 |
| October . | • | | • | 1,015.1 | 12.3 | 39.4 | | 153 | WNW | ENE | 203 | | 4 1 | |
| November . | • | | • | 1,013.4 | 12.4 | 31.9 | | 114 | MŃM | ENE | 190 | 3.6 | 4.5 | 5.2 4.8 |
| December . | • | | • | 1,012.1 | 12.3 | 36.2 | 11/52 | 121 | NE | ENE | 225 | 3.8 | 4.6 | |
| (Totals | | | | | | | | • • | | | 1,677 | 24.7 | | 84.7 |
| Year { Averag | es . | | | 1,016.1 | 11.6 | | | | WNW | ENE | | | 4.2 | |
| Extrem | es . | | • | • • | •• | 39.6 | 9/8/51 | 153 | •• | •• | | •• | •• | •• |

(a) Scale 0-8.

(b) Years 1938-1962 inclusive.

(c) Richmond records.

TEMPERATURE AND SUNSHINE

| | | perature da s (°Celsius) | | Extreme air temp (°Celsius) | erature | Extreme tempera (°Celsius) | Mean daily hours | |
|--------------------------|--------------|----------------------------------|------|--------------------------------|-----------------|-------------------------------|------------------------|-----|
| Month | Mean max. | Mean min. Mean Highest Lowest | | Highest in sun | Lowest on grass | sun- shine | | |
| No. of years of record . | 117 | 117 | 117 | 117 | 117 | 84(a) | 117 | 55 |
| January | 25.7 | 18.3 | 22.0 | 45.3 14/39 | 10.6 18/49 | 73.5 26/15 | 6.5 6/25 | 7.2 |
| February | 25.4 | 18.4 | 21.9 | 42.1 8/26 | 9.6 28/63 | 76.3 14/39 | 6.0 22/33 | 6.8 |
| March | 24.5 | 17.3 | 20.9 | 39.2 <i>3/69</i> | 9.3 14/86 | 70.2 10/26 | 4.4 17/13 | 6.3 |
| April | 22.1 | 14.5 | 18.3 | 33.0 (b) | 7.0 27/64 | 62.3 10177 | 0.7 24/09 | 6.2 |
| May | 19.2 | 11.2 | 15.2 | 30.0 1/19 | 4.4 30/62 | 54.3 1196 | $-1.5 \ 25/17$ | 5.8 |
| June | 16.6 | 9.1 | 12.8 | 26.9 11/31 | 2.1 22/32 | 52.1 2/23 | $-2.2 \ 22/32$ | 5.2 |
| July | 15.8 | 7.8 | 11.8 | 25.7 22/26 | 2.2 12190 | 51.9 <i>19177</i> | -4.4 4/93 | 6.2 |
| August | 17.4 | 8.7 | 13.1 | 30.4 24/54 | 2.7 3/72 | 65.0 30/78 | -3.3 	 4/09 | 6.8 |
| September | 19.6 | 10.8 | 15.2 | 34.6 26/65 | 4.9 2/45 | 61.2 12/78 | -1.1 17/05 | 7.1 |
| October | 21.9 | 13.3 | 17.6 | 37.4 4/42 | 5.7 6/27 | 66.8 20/33 | 0.4 9/05 | 7.3 |
| November | 23.5 | 16.3 | 19.4 | 40.3 6/46 | 7.7 1/05 | 70.3 28199 | 1.9 21/67 | 7.6 |
| December | 24.9 | 17.2 | 21.1 | 42.2 20/57 | 9.1 3/24 | 73.5 27/89 | 5.2 3/24 | 7.4 |
| Year \ Averages | 21.4 | 13.6 | 17.4 | | | •• | | 6.7 |
| Extremes | • • | •• | •• | 45.3 14/1/39 | 2.1 22/6/32 | 76.3 14/2/39 | -4.4 4/7/1893 | •• |

(a) Records discontinued 1946.

(b) 1/36 and 10/69.

HUMIDITY, RAINFALL, AND FOG

| | Vapour | | | | Rainfall | (millimetro | es) | | | | | |
|--------------------------|-----------------------|---------|-----------------|----------------|----------------|--------------------|-----|--------------------|----|------------------|------------------|-------------|
| | pres- sure mean | Rel. hu | m. (%) a | t 9 a.m. | | Mean No. | | | | | Greatest | Fog Mean |
| Month | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | | reatest conthly | | Least monthly | in one day | No. days |
| No. of years of record . | 100 | 100 | 100 | 100 | 117 | 117 | | 117 | | 117 | 117 | 55 |
| January | 18.8 | 68 | 78 | 58 | 100 | 13 | 388 | 1911 | 6 | 1932 | 180 13/11 | 0.3 |
| February | 19.2 | 70 | 81 | 60 | 115 | 13 | 564 | 1950 | 3 | 1939 | 226 <i>25 73</i> | 0.6 |
| March | 18.3 | 74 | 85 | 62 | 131 | 14 | 521 | 1942 | 8 | 1965 | 281 28/42 | 1.5 |
| April | 15.0 | 74 | 87 | 63 | 126 | 13 | 622 | 1861 | 2 | 1868 | 191 <i>29 60</i> | 2.1 |
| May | 11.9 | 75 | 90 | 63 | 123 | 13 | 585 | 1919 | 4 | 1957 | 212 28/89 | 3.1 |
| June | 10.2 | 76 | 89 | 63 | 133 | 12 | 643 | 1950 | 4 | 1962 | 131 <i>16 84</i> | 2.7 |
| July | 9.6 | 74 | 88 | 59 | 104 | 11 | 336 | 1950 | 2 | 1970 | 198 <i>7</i> /31 | 2.1 |
| August | 9.5 | 68 | 84 | 54 | 81 | ii | 378 | 1899 | 1 | 1885 | 140 22/71 | 1.7 |
| September | 11.3 | 66 | 79 | 49 | 69 | ii | 357 | 1879 | 2 | 1882 | 145 <i>10179</i> | 0.9 |
| October | 13.0 | 62 | 77 | 46 | 76 | 12 | 283 | (a) | 2 | 1971 | 162 13/02 | 0.6 |
| November | 15.0 | 62 | 79 | 42 | 78 | 12 | 577 | 1961 | 2 | 1915 | 133 27/55 | 0.5 |
| December | 17.6 | 64 | ήí | 51 | 7 9 | 13 | 402 | 1920 | 6 | 1913 | 121 13/10 | 0.4 |
| Your Totals | | żò | | | 1,215 | 148 | | •• | | •• | | 16.3 |
| Year { Averages Extremes | 14.1 | 69 | 90 | 42 | :: | :: | 643 | 6/1950 | 'n | 8/1885 | 281 28/3/1942 | :: |

Figures such as 10/49, 28/63, etc. indicate, in respect of the month of reference, the day and year of the occurrence. Dates in italics relate to nineteenth century.

CLIMATIC DATA: CANBERRA, AUSTRALIAN CAPITAL TERRITORY

(Lat. 35° 19' S., Long. 149° 11' E. Height above M.S.L. 571 metres)

BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | Mean of 9 a.m. | Wind (he | | | | Mean daily amt | | | | |
|--|--|--|--|---|---|---|---|---|---|---|
| | and 3 p.m. atmospheric pressure reduced to mean sea | Aver- age | Highest mean speed in one day | High- est gust speed | Prevailin direction | | Mean amt evapo- ration | No. days thun- | clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | level (mb) | (km/h) | (km/h) | (km/h) | 9 a.m. | 3 p.m. | (mm) | der | (a) | days |
| No. of years of record January February . March April May June July August September October . November . December . | . 36 . 1,012.1 . 1,013.1 . 1,016.0 . 1,018.8 . 1,019.0 . 1,020.2 . 1,018.5 . 1,017.4 . 1,014.8 . 1,011.9 | 44(<i>b</i>) 6.6 6.1 5.3 5.0 4.4 4.8 5.0 6.5 6.9 6.9 | 44(b) 24 24/33 25 24/33 29 28/42 30 8/45 21 27/58 26 2/30 38 7/31 25 25/36 28 28/34 23 12/57 28 28/42 26 11/38 | 36(c) 121 104 111 106 104 96 102 113 107 119 128 | 36(c) NW NW SE NW NW NW NW NW NW | 36(c) NW NW NW NW NW NW NW NW NW | 8 242 194 165 109 71 46 54 77 115 165 200 259 | 36 3.3 3.0 1.7 0.8 0.4 0.2 0.1 0.8 1.1 2.2 3.3 | 36 4.1 4.4 4.2 4.5 4.6 4.4 4.1 4.4 4.1 | 36(d) 7.7 6.5 7.6 6.9 6.7 7.0 6.7 7.9 6.1 7.5 |
| Year { Totals . Averages . Extremes . | . 1,016.1 | 5.8 | 38 7/7/3i | 128 | NW | NW | 1,697 | 20.3 | 4.3 | 82.8 6.9 |

(a) Scale 0-8. (b) Recorded at Forestry and Timber Bureau, Yarralumla, where a cup anemometer is installed. (c) Recorded at Meteorological office, R.A.A.F. Fairbairn, where a Dines Pressure Tube anemometer is installed. (d) 1940-75. Formerly assessed over 37-year period at Yarralumla.

TEMPERATURE AND SUNSHINE

| | | perature da s (°Celsius) | | Extreme air tem (°Celsius) | perature | Extreme tempera (°Celsius) | ature | Mean daily hours |
|--------------------------|--------------|-----------------------------|------|-------------------------------|-----------------|-------------------------------|-----------------|------------------------|
| Month | Mean max. | | | Highest | Lowest | Highest in sun | Lowest on grass | sun- shine |
| No. of years of record . | 36 | 36 | 36 | 36 | 36 | | 22 | 37 |
| January | 27.5 | 12.9 | 20.2 | 41.4 31/68 | 1.8 1/56 | | -0.4 	 1/56 | 8.9 |
| February | 26.6 | 12.6 | 19.6 | 42.2 1/68 | 3.0 16/62 | • • | 0.2 17/70 | 8.2 |
| March | 24.3 | 10.4 | 17.3 | 36.4 9/40 | -1.1 24/67 | • • | -4.0 (a) | 7.5 |
| April | 19.6 | 6.5 | 13.1 | 32.6 12/68 | $-3.3 \ 26/72$ | | -8.3 24/69 | 6.9 |
| May | 14.9 | 2.8 | 8.9 | 24.5 10/67 | -7.3 16/57 | • • | -10.4 26/69 | 5.6 |
| June | 12.0 | 0.8 | 6.4 | 20.1 3/57 | -8.5 8/57 | | -13.4 25/71 | 4.8 |
| July | 11.1 | -0.3 | 5.4 | 19.7 29/75 | -10.0 11/71 | | -15.1 11/71 | 5.1 |
| August | 12.6 | 0.8 | 6.7 | 21.7 24/54 | -7.8 6/74 | | $-12.8 \ 11/69$ | 6.1 |
| September | 15.8 | 2.7 | 9.3 | 28.6 26/65 | -5.6 5/40 | | -10.6 12/71 | 7.4 |
| October | 19.0 | 5.8 | 12.4 | 32.7 13/46 | -3.3 	 4/57 | | -6.2 	4/57 | 7.9 |
| November | 22.2 | 8.2 | 15.1 | 38.8 19/44 | -1.8 28/67 | | $-6.3 \ 28/67$ | 8.7 |
| December | 26.0 | 11.1 | 18.6 | 38.8 21/53 | 1.1 18/64 | | $-3.9 \ 18/64$ | 9.1 |
| Year { Averages | 19.3 | 6.2 | 12.7 | | | | | 7.2 |
| Extremes | • • | •• | • • | 42.2 1/2/68 | 10.0 11/7/71 | • • | 15.1 11/7/71 | |

(a) 30/58 and 24/67.

HUMIDITY, RAINFALL, AND FOG

| | Vapour | | | | Rainfall | (millimetre | ?s) | | | | | |
|--------------------------|----------------|------|-----------------|----------------|---------------|--------------------|-----|-------------------|--------|-----------------|-----------------|-------------|
| | pres- sure | | | | Mean No. | | | | | Greatest | Fog Mean | |
| Month | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | | reatest onthly | m | Least onthly | in one day | No. days |
| No. of years of record . | 36(a) | 36 | 36 | 36 | 36 | 36 | | 36 | | 36 | 36 | 36 |
| January | 13.1 | 60 | 75 | 42 | 61 | 8 | 164 | 1941 | 1 | 1947 | 95 12/45 | 1.1 |
| February | 14.0 | 65 | 81 | 53 | 59 | 7 | 145 | 1948 | Nil | 1968 | 69 20/74 | 1.2 |
| March | 13.1 | 69 | 81 | 53 | 51 | 7 | 312 | 1950 | 1 | 1954 | 66 5/59 | 2.8 |
| April | 10.7 | 75 | 84 | 38 | 50 | 8 | 164 | 1974 | 2 | 1942 | 75 2/59 | 4.1 |
| May | 8.7 | 84 | 96 | 73 | 51 | 9 | 150 | 1953 | 2 | 1961 | 96 3/48 | 7.5 |
| June | 7.1 | 85 | 97 | 73 | 39 | 9 | 126 | 1956 | 5 | 1971 | 45 25/56 | 7.6 |
| July . | 6.6 | 84 | 93 | 68 | 38 | 10 | 103 | 1960 | 4 | 1970 | 35 10/57 | 7.7 |
| August | 7.1 | 80 | 92 | 58 | 47 | iž | 156 | 1974 | 7 | 1944 | 48 29/74 | 5.0 |
| Seitember | 8.1 | 74 | 82 | 55 | 50 | iõ | 116 | 1970 | 6 | 1946 | 41 16/62 | 4.1 |
| October | 10.0 | 67 | 82 | 50 | 73 | 12 | 148 | 1959 | Ğ. | 1940 | 105 21/59 | 3. i |
| November | 10.7 | 59 | 76 | 38 | 64 | įō | 135 | 1961 | 13 | 1940 | 64 9/50 | 1.4 |
| December | 12.3 | 59 | 74 | 43 | 56 | 18 | 215 | 1947 | Nil | 1967 | 87 30/48 | 0.6 |
| Totals | | | | | 639 | 110 | | | | | •• | 46.2 |
| Year ⟨ Averages . | 9.3 | 72 | ** | - 44 | | | 212 | 2150 | B. T** | <i>::</i> : | 105 | • • |
| Extremes | • • | • • | 97 | 38 | • • | • • | 312 | 3/50 | Nil | (b) | 105 21/10/59 | • • • |

(a) Formerly assessed over 38-year period at Forestry and Timber Bureau, Yarralumla. (b) 12/67 and 2/68. Data shown in the above tables relate to the Meteorological Office, R.A.A.F., Fairbairn, except where otherwise indicated, and generally cover years up to 1975. Figures such as 23/33, 31/68, etc., indicate, in respect of the month of reference, the day and year of the occurrence

CLIMATIC DATA: MELBOURNE, VICTORIA

(Lat. 37° 49' S., Long. 144° 58' E. Height above M.S.L. 35 metres)

BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | | | Mean of 9 a.m. | | | | | | | | Mean daily amt | |
|--|----------------------------|---|---|---|--|--|--|--|---|--|--|---|
| | | | and 3 p.m. atmospheric pressure reduced to mean sea | Aver- age | Highest mean speed in one day | | Prevailin direction | | Mean amt evapo- ration | No. days thun- | clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | | | level (mb) | (km/h) | (km h) | (km/h) | 9 a.m. | 3 p.m. | (mm) | der | (a) | days |
| No. of years of January February . February . April . May . June . July . August September . October . November . December . | : : : : : : | 1 | 119 1,012.8 1,014.3 1,016.8 1,018.9 1,019.0 1,018.6 1,017.5 1,016.0 1,014.7 1,013.9 | 36(b) 12.8 12.4 11.3 10.9 11.4 11.4 12.8 12.5 12.7 12.8 13.3 | 34.0 27/41 30.6 13/47 29.0 3/61 33.7 27/71 33.0 4/61 36.7 16/47 36.9 24/70 34.3 20/42 34.0 15/64 30.4 6/68 35.8 8/71 33.8 12/52 | 106 119 106 108 116 103 109 108 111 111 | 57 58 88 88 88 88 88 88 | 57 58 58 58 58 58 58 58 58 58 58 58 58 58 | 9 228 198 155 97 59 38 47 60 91 130 161 209 | 68 1.7 1.9 1.3 0.7 0.4 0.2 0.2 0.6 0.8 1.6 1.9 2.2 | 119 4.1 4.0 4.3 4.7 5.2 5.3 5.2 5.0 4.8 4.8 4.9 | 68 6.7 6.1 5 5 4.2 2.9 2.8 2.5 2.7 3.6 3.4 4.4 |
| Year { Totals Averages Extremes | | : | 1,016.2 | 12.3 | 36.9 24/7/70 | 119 | N | | 1,468 | 13.4 | 4.7 | 48.0 |

(a) Scale 0-8. (b) Early records not comparable.

(c) Records to 1966.

TEMPERATURE AND SUNSHINE

| | | perature da (°Celsius) | | Extreme air temp (°Celsius) | perature | Extreme tempera (°Celsius) | iture | Mean daily | |
|---------------------|-------|---------------------------|--------------|--------------------------------|-------------------|-------------------------------|--------------------|-------------------|------------------------|
| Month | | Mean max. | Mean min. | Mean | Highest | Lowest | Highest in sun | Lowest on grass | hours sun- shine |
| No. of years of rec | ord . | 120 | 120 | 120 | 120 | 120 | 86(a) | 116 | 52(b) |
| January | | 25.8 | 13.9 | 19.9 | 45.6 13/39 | 5.6 28/85 | 81.4 14/62 | -1.0 28/85 | 8.1 |
| February | | 25.7 | 14.2 | 19.9 | 43.1 7/01 | 4.6 24/24 | 75.3 <i>15 70</i> | -0.6 6/91 | 7.5 |
| March | | 23.7 | 12.8 | 18.3 | 41.7 11/40 | 2.8 17/84 | 73.6 <i>1 68</i> | -1.7 (c) | 6.6 |
| April | | 20.1 | 10.5 | 15.3 | 34.9 5/38 | 1.6 24/88 | 66.7 8/61 | -3.9 <i>23/97</i> | 5.1 |
| May | | 16.5 | 8.3 | 12.4 | 28.7 7/05 | -1.2 29/16 | 61.4 2/59 | -6.1 26/16 | 3.9 |
| June | | 13.9 | 6.6 | 10.3 | 22.4 2/57 | $-2.2 \ 11/66$ | 53.9 11/61 | -6.7 30/29 | 3.4 |
| July | | 13.3 | 5.7 | 9.5 | 23.1 30/75 | -2.8 <i>21 69</i> | 52.1 <i>27/80</i> | -6.4 12/03 | 3.7 |
| August | | 14.8 | 6.4 | 10.6 | 25.0 <i>20!85</i> | -2.1 11/63 | 58.6 <i>29</i> 169 | -5.9 14/02 | 4.6 |
| September | | 17.1 | 7.6 | 12.4 | 31.4 28/28 | $-0.6 \frac{3}{40}$ | 61.2 20/67 | -5.1 8/18 | 5.5 |
| October | | 19.5 | 9.2 | 14.4 | 36.9 24/14 | 0.1 <i>3</i> /7 <i>1</i> | 67.9 <i>28168</i> | -4.0 22/18 | 5.9 |
| November | | 21.8 | 10.8 | 16.3 | 40.9 27/94 | 2.4 2196 | 70.9 29/65 | -4.1 2/96 | 6.5 |
| December | : | 24.1 | 12.6 | 18.4 | 43.7 15/76 | 4.4 4170 | 76.8 20169 | 0.7 1/04 | 7.3 |
| Vear S Averages . | | 19.9 | 9.9 | 14.8 | •• | •• •• | | | 5.7 |
| Extremes . | • | •• | •• | •• | 45.6 13/1/39 | -2.8 21/7/69 | 81 . 4 14/1/62 | -6.7 30/6/29 | • • • |

(a) Discontinued 1946.

(b) Discontinued 1967.

(c) 17/1884 and 20/1897.

HUMIDITY, RAINFALL, AND FOG

| | Vapour | | | | Rainfall | (millimetre | ?s) | | | | | | |
|--------------------------|-----------------------|---------|-----------------|----------------|---------------|--------------------|-----|------------------|-----|-----------------|-----|---------------|-------------|
| | pres- sure mean | Rel. hu | m. (%) a | 1 9 a.m. | | Mean No. | | | | | | reatest | Fog Mean |
| Month | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | | eatest onthly | mo | Least onthly | Ū | in one day | No. days |
| No. of years of record . | 68 | 68 | 68 | 68 | 120 | 120 | | 120 | | 120 | | 120 | 118 |
| January | 13.1 | 61 | 68 | 50 | 48 | -8 | 176 | 1963 | (a) | 1932 | 108 | 29/63 | 0.1 |
| February | 14.1 | 63 | 77 | 48 | 50 | 7 | 238 | 1972 | (a) | 1965 | 87 | 26/46 | 0.3 |
| March | 13.3 | 66 | 79 | 50 | 54 | 9 | 191 | 1911 | 4 | 1934 | 90 | 5/19 | 0.7 |
| April | 11.7 | 72 | 82 | 66 | 59 | 11 | 195 | 1960 | Nil | 1923 | 80 | 23/60 | 1.8 |
| May | 10.3 | 79 | 88 | 70 | 57 | 14 | 142 | 1942 | 4 | 1934 | 51 | 15/74 | 3.6 |
| June | 9.3 | 83 | 92 | 73 | 50 | 14 | 114 | 1859 | 8 | 1858 | 44 | 22/04 | 4.6 |
| July | 8.9 | 81 | 87 | 73 | 49 | 15 | 178 | 1891 | 15 | 1902 | 74 | 12/91 | 4.3 |
| August | 9.1 | 75 | 82 | 65 | 50 | 15 | 111 | 1939 | 12 | 1903 | 54 | 17/81 | 2.3 |
| September | 9.5 | 68 | 76 | 60 | 59 | 14 | 201 | 1916 | 13 | 1907 | 59 | 23/16 | 0.8 |
| October | 10.5 | 63 | 72 | 52 | 68 | 14 | 193 | 1869 | 7 | 1914 | 61 | 21/53 | 0.4 |
| November | 11.3 | 61 | 70 | 52 | 59 | 12 | 206 | 1954 | 6 | 1895 | 73 | 21/54 | 0.2 |
| December | 12.5 | 60 | 69 | 48 | 58 | 10 | 182 | 1863 | 1 | 1972 | 100 | 4/54 | 0.2 |
| Totals | 11'i | żà | | | 661 | 143 | | | | • • | | | 19 3 |
| Year \ Averages | 11.1 | 69 | | :: | • • | • • | 220 | 2133 | N/: | 4123 | 100 | • • | • • |
| Extremes | • • • | • • • | 92 | 43 | •• | • • • | 238 | 2/72 | Nil | 4/23 | 108 | 29/1/63 | •• |

(a) Less than 1 mm.

Figures such as 27/41, 28/85, etc., indicate, in respect of the month of reference, the day and year of the occurrence. Dates in italics relate to nineteenth century.

CLIMATIC DATA: HOBART, TASMANIA

(Lat. 42° 53′ S., Long. 147° 20′ E. Height above M.S.L. 54 metres) BAROMETER, WIND, EVAPORATION, THUNDER, CLOUDS, AND CLEAR DAYS

| | | | Mary 25.0 2.00 | Wind (he | right of anemome | ter 12 metr | es) | | | | Mean daily | | | |
|----------------------------------|------|-----|----------------|----------|--|-----------------|--------|--------|------------------------|-----|---------------------------------|----------------------|---|--------------|
| | | | | | Mean of 9 a.m. and 3 p.m. atmospheric pressure reduced to mean sea | Aver- | | | Prevailir direction | | Mean amt evapo- ration | No. days thun- | amt clouds 9 a.m., 3 p.m., 9 p.m. | No. clear |
| Month | | | level (mb) | (km/h) | (km/h) | speed (km/h) | 9 a.m. | 3 p.m. | (mm) | der | (a) | days | | |
| No. of years of r | ecor | d . | 90 | 63 | 64 | 84 | 30(b) | 30(b) | 10(c) | 64 | 90 | 30(b) | | |
| January . | | | 1,010.6 | 12.6 | 33.5 30/16 | 130 | NNW | SSE | 167 | 1.0 | 5.0 | 1.9 | | |
| February . | | | 1,012.9 | 11.5 | 40.6 4/27 | 121 | NNW | SSE | 135 | 1.0 | 4.9 | 2.3 | | |
| March . | | | 1,014.3 | 11.0 | 34.4 13/38 | 127 | NW | SSE | 109 | 0.7 | 4.8 | 2.4 | | |
| April | | | 1,015.5 | 10.9 | 38.8 9/52 | 121 | NW | W | 70 | 0.3 | 5.0 | 1.7 | | |
| May | | | 1,015.4 | 10.4 | 35.4 21/65 | 135 | NNW | NW | 38 | 0.0 | 5.0 | 2.4 | | |
| June | | | 1,015.2 | 10.2 | 38.2 27/20 | 132 | NW | NW | 22 | 0.0 | 5.0 | 2.4 | | |
| July | | | 1,014.0 | 10.7 | 36.9 22/53 | 129 | NNW | NNW | 26 | 0.0 | 4.8 | 2.0 | | |
| August . | | | 1,012.8 | 10.9 | 41.0 19/26 | 140 | NNW | NW | 44 | 0.1 | 4.8 | 2.1 | | |
| September . | | | 1,011.4 | 12.5 | 43.1 28/65 | 150 | NNW | NW | 73 | 0.1 | 4.9 | 1.5 | | |
| October . | | • | 1,010.3 | 12.6 | 32.4 3/65 | 140 | NNW | SW | 107 | 0.4 | 5.2 | 1.0 | | |
| November . | Ī | | 1.009.8 | 12.8 | 34.1 18/15 | 135 | NNW | S | 123 | 0.6 | 5.3 | 1.3 | | |
| December . | | | 1,009.4 | 12.4 | 37.7 1/34 | 122 | NNW | SSE | 150 | 0.8 | 5.3 | 1.1 | | |
| Year { Totals Year { Averages | | : | 1,012.6 | 11.5 | | | NNW | ŵ | 1,064 | 5.1 | 5.0 | 22.1 | | |
| Extremes | • | • | -, | | 43.1 28/9/65 | 150 | •• | | • • • | | • • • | | | |

(a) Scale 0-8. (b) Standard thirty years normal (1911-1940). (c) Class "A" American pan.

TEMPERATURE AND SUNSHINE

| Month | | | perature da (°Celsius) | | Extreme air tem (°Celsius) | perature | Extreme tempera (°Celsius) | Extreme temperature (°Celsius) | | |
|------------------------|----|--------------|---------------------------|------|-------------------------------|-----------------|-------------------------------|-----------------------------------|------------------------|--|
| | | Mean max. | ı Mean | | Highest | Lowest | Highest in sun | Lowest on grass | hours sun- shine | |
| No. of years of record | 1. | 92 | 92 | 92 | 92 | 92 | 57(a) | 87 | 79 | |
| January | | 21.4 | 11.5 | 16.5 | 40.8 4/76 | 4.5 (b) | 71.1 (c) | -0.8 19/97 | 7.9 | |
| February | | 21.5 | 11.8 | 16.7 | 40.2 <i>12 99</i> | 3.9 20/87 | 73.9 <i>24 98</i> | -2.0 - 187 | 7.0 | |
| March | | 20.0 | 10.6 | 15.3 | 37.3 13/40 | 1.8 31/26 | 66.1 26/44 | $-2.5 \ 30/02$ | 6.4 | |
| April | | 17.1 | 8.7 | 12 9 | 30.6 1/41 | 0.6 14/63 | 61.1 18/93 | -3.9 - 186 | 5.0 | |
| May | | 14.2 | 6.7 | 10.5 | 25.5 5/21 | $-1.6 \ 30/02$ | 53.3 (d) | -6.7 19/02 | 4.3 | |
| June | - | 11.8 | 5.1 | 8.5 | 20.6 1/07 | $-2.8 \ 25/72$ | 50.0 12/94 | -7.7 24/63 | 3.9 | |
| July | • | 11.4 | 4.4 | 7.9 | 21.0 30/75 | -2.4 (f) | 49.4 12/93 | -7.4 16/86 | 4.3 | |
| August | • | 12.8 | 5.0 | 8.9 | 22.0 28/14 | -1.8 	5/62 | 54.4 -187 | -6.6 7/09 | 5.0 | |
| September | • | 14.9 | 6.2 | 10.6 | 28.2 29/73 | -0.6 16/97 | 58.9 23/93 | -7.6 16/26 | 5.9 | |
| October | • | 16.7 | 7.5 | 12.1 | 33.4 24/14 | 0.0 12/89 | 68.9 9/93 | -4.6 (e) | 6.3 | |
| November | • | 18.5 | 9.0 | 13.8 | 36.8 26/37 | 1.6 16/41 | 55.6 19192 | -3.4 1/08 | 7.0 | |
| | • | 20.2 | 10.5 | 15.4 | 40.7 30/97 | | 71.9 10/39 | | 7.2 | |
| December | • | | | | 40.7 30/97 | 3.3 3/06 | 11.9 10/39 | -2.6 -/86 | | |
| Year \ Averages . | | 16.7 | 8.1 | 12.4 | | | | | 5.9 | |
| Extremes . | | | •• | •• | 40.8 4/1/1976 | -2.8 25/6/72 | 73.9 24/2/1968 | -7.7 24/6/1963 | •• | |

(a) Period 1934–1938 not comparable; records discontinued 1946. (b) 09/1937 and 11/1937. (c) 05/1886 and 13/1905. (d)—/1899 and —/1893. (e) 1/1886 and 1/1899. (f) 11/1895 and 7/1973.

HUMIDITY, RAINFALL, AND FOG

| | Vapour | | | | Rainfall | ' (millimetre | ?s) | | | |
|--------------------------|-----------------------|---------|-----------------|----------------|---------------|--------------------|---------------------|------------------|------------------|-------------|
| | pres- sure mean | Rel. hu | m. (%) a | t 9 a.m. | | Mean No. | | | Greatest | Fog Mean |
| Month | 9 a.m. (mb) | Mean | Highest mean | Lowest mean | Mean mthly | of days of rain | Greatest monthly | Least monthly | in one day | No. days |
| No. of years of record . | 77(a) | 81 | 81 | 81 | 93 | 93 | 92 | 92 | 131 | 64 |
| January | 11.0 | 58 | 81 | 45 | 49 | 11 | 150 1893 | 4 1958 | 75 30/16 | 0.3 |
| February | 11.7 | 62 | 83 | 49 | 42 | 10 | 171 1964 | 3 1914 | 56 1/54 | 0.1 |
| March | 11.0 | 65 | 78 | 52 | 47 | 11 | 255 1946 | 7 1943 | 88 17/46 | 0.3 |
| April | 10.0 | 70 | 84 | 57 | 55 | 12 | 248 1960 | 2 1904 | 133 23/60 | 0.3 |
| May | 8.8 | 75 | 86 | 61 | 49 | 14 | 214 1958 | 4 1913 | 47 3/73 | 1.1 |
| June | 7.9 | 78 | 91 | 61 | 59 | 14 | 238 1954 | 7 (c) | 147 7/54 | 1.7 |
| July | 7.6 | 78 | 87 | 72 | 54 | 15 | 157 1974 | 4 1950 | 64 18/22 | 1.4 |
| August | 7.9 | 73 | 86 | 59 | 49 | 16 | 161 1946 | 8 1892 | 58 <i>14</i> /90 | 0.7 |
| September | 8.3 | 66 | 81 | 52 | 52 | 15 | 201 1957 | 10 1951 | 156 15/57 | 0.2 |
| October | 9.1 | 62 | 74 | 52 | 64 | 17 | 193 1947 | 10 1914 | 66 4/06 | 0.1 |
| November | 9.6 | 59 | 73 | 49 | 56 | 14 | 188 1885 | 9 (d) | 94 30/85 | 0.1 |
| December | 10.6 | 58 | 73 | 42 | 57 | 13 | 196 (b) | 5 (e) | 85 5/41 | 0.1 |
| Totals | .· <u>.</u> | :: | | | 633 | 162 | | | •• | 6.1 |
| Year \ Averages | 9.5 | 67 | 1: | :: | | • • | -11 | | .:: | • • |
| Extremes | | | 91 | 42 | •• | :: | 255 3/1946 | 2 4/1904 | 156 15/9/57 | •• |

(a) 1894-1970. (b) 1897 and 1916. (c) 1886 and 1967. (d) 1919 and 1921. (e) 1897, 1915 and 1931. Figures such as 30/16, 12/99, etc. indicate, in respect of the month of reference, the day and year of the occurrence. Dates in italics relate to nineteenth century.

Climatic data for selected Australian localities

The following table shows some of the more important climatic data for selected Australian localities.

CLIMATIC DATA FOR SELECTED AUSTRALIAN LOCALITIES

(Temperature and humidity generally over years 1957-1973)

| | | Rainfall | | | Temperat | иге | | | Dalotin- | elative humidity | | | |
|--|---|--|---|---|--|---|--|---|--|--|--|--|--|
| Town | | No. of years of record | Average annual rainfall (mm) | Average number of wet days | Average maxi- mum, January (°C.) | Average maxi- mum, July (°C.) | Average mini- mum, January (°C.) | Average mini- mum, July (°C.) | Average 9 a.m., January | Average 9 a.m., July | Average 3 p.m., January (%) | Average 3 p.m., July (%) | |
| | | | | W | ESTERN | AUSTR | ALIA | | | | - | | |
| Albany Broome | : | 94 63 97 67 85 86 | 948 574 881 229 675 462 | 184 38 122 35 128 | 25.8 33.3 26.9 30.8 25.9 31.6 | 15.7 28.5 16.7 21.9 17.0 19.4 | 13.3 26.2 16.5 22.6 15.9 18.7 | 7.4 13.6 9.1 11.0 7.9 9.2 | 73 75 63 62 70 61 | 84 46 78 69 81 68 | 65 62 59 61 63 60 | 70 43 69 54 65 57 | |
| Geraldton | : | 57 51 82 50 81 | 243 236 506 323 693 | 78 52 36 96 19 56 | 33.6 37.8 30.9 36.5 36.4 | 16.5 18.6 14.5 27.0 31.1 | 18.3 24.2 14.7 25.2 26.2 | 4.9 7.3 5.3 11.8 18.7 | 44 29 58 67 64 | 66 62 84 42 33 | 24 17 33 63 49 | 49 37 67 47 27 | |
| | | | | NO | RTHERN | N TERR | ITORY | | | | | | |
| Alice Springs . Tennant Creek . | : | 100 100 | 266 362 | 33 33 | 36.6 37.7 | 21.8 24.4 | 22.2 24.8 | 4.8 11.1 | 31 46 | 49 39 | 19 25 | 30 24 | |
| | | | | s | OUTH A | AUSTRA | LIA | | | | | | |
| Ceduna | : | 67 113 50 101 108 97 | 293 774 117 242 486 343 | 73 162 20 60 125 74 | 28.5 25.6 38.2 32.3 25.5 31.4 | 17.2 13.1 19.4 16.6 15.9 15.9 | 15.1 10.8 23.2 19.5 15.7 17.3 | 5.8 4.9 5.8 7.1 8.4 7.5 | 47 65 27 44 65 51 | 79 79 49 66 79 75 | 42 50 15 31 54 31 | 53 73 33 49 66 55 | |
| | | | | | QUEE | NSLANI |) | | | | | | |
| Atherton Bundaberg Cairns Claries Charleville Charters Towers Cloncurry Ipswich Longreach Mackay Maryborough Normanton Rockhampton Roma Townsville Lownsville | | 72 91 76 82 90 87 104 80 79 103 102 96 89 | 1,412 1,159 2,224 497 650 468 876 442 1,666 1,200 932 943 575 955 1,105 | 135 94 141 55 63 39 94 46 117 115 57 86 61 105 | 28.8 29.8 31.5 34.6 33.6 37.8 32.1 37.9 29.7 29.8 31.4 34.1 26.9 31.3 | 21.6 21.5 25.4 19.4 24.4 25.2 20.9 21.2 21.2 29.2 22.9 20.2 16.2 24.9 | 18.3 21.4 23.6 21.2 21.7 25.0 20.7 22.7 23.1 20.3 25.0 21.7 20.5 16.5 23.8 | 10.0 10.1 16.7 4.3 10.7 6.9 12.2 7.8 15.2 10.7 4.8 4.7 | 76 68 71 46 65 40 65 43 74 73 71 69 55 73 | 78 66 72 66 63 40 65 53 77 77 44 70 64 79 63 | 65 60 62 27 42 28 55 26 70 62 53 52 34 53 62 | 56 45 58 35 47 26 68 28 66 51 27 39 37 48 | |
| | | | | N | EW SOL | JTH WA | LES | | | | | | |
| Albury Armidale Bega Bourke Broken Hill Cooma Dubbo Goulburn Grafton Katoomba Leeton Moree Newcastle Orange Port Kembla Tamworth Taree Wagga Wagga | | 96 110 90 102 84 109 102 102 93 86 59 86 108 82 80 93 | 705 795 871 346 241 503 584 712 983 1,405 432 578 1,145 673 1,136 673 1,178 | 96 110 85 46 45 90 74 105 104 122 81 59 132 100 88 80 112 88 | 30.8 26.6 26.1 35.0 32.1 25.7 33.4 26.8 31.7 23.4 32.1 35.6 24.4 28.8 24.1 32.8 | 12.0 12.7 16.6 18.0 14.9 9.3 15.4 11.1 20.3 9.3 13.9 16.6 9.6 16.7 15.3 18.8 12.3 | 14. 1 13. 5 14. 0 20. 7 18. 8 11. 7 13. 0 19. 5 12. 9 17. 4 19. 5 19. 2 11. 5 18. 4 17. 1 17. 1 | 3.0 1.4 4.8 5.5 -1.0 1.4 2.9 4.0 8.2 -0.8 3.6 4.9 3.2 | 45 66 65 41 41 59 51 57 72 61 46 58 57 76 52 55 | 74 61 70 64 70 67 74 75 71 75 73 84 63 77 | 24 47 57 28 28 32 32 43 58 60 28 32 72 49 49 49 49 49 49 49 40 51 61 34 | 67 51 51 45 53 50 70 45 65 65 74 44 56 46 47 67 | |

CLIMATE AND PHYSICAL GEOGRAPHY OF AUSTRALIA

CLIMATIC DATA FOR SELECTED AUSTRALIAN LOCALITIES—continued

| | Тоwп | | Rainfall | | | Tempera | ture | | | Relative | homiditu | | |
|---|------|---|---|--|--|--|---|--|--|--|--|--------------------------------------|--|
| Town | | | No. of years of record | Average annual rainfall (mm) | Average number of wet days | Average maxi- mum, January (°C.) | Average maxi- mum, July (°C.) | Average mini- mum, January (°C.) | Average mini- mum, July (°C.) | Average 9 a.m., January | Average 9 a.m., July | Average 3 p.m., January (%) | Averag. 3 p.m. July (%) |
| | | | | | | VIC | TORIA | | | | | | |
| Ballarat Bendigo Geelong Horsham Mildura Sale Seymour Shepparton Wangaratta Warrnambool | : | : | 91 112 99 99 59 75 92 95 96 | 744 546 538 449 268 610 596 509 640 726 | 161 123 128 102 58 122 94 89 96 169 | 25.5 29.2 24.5 30.8 32.1 25.4 27.8 30.2 30.2 | 9.9 11.9 13.5 13.5 15.3 13.5 11.5 13.2 12.6 | 11.4 14.4 13.3 12.9 16.9 12.9 12.9 15.2 15.0 | 3.5 3.7 5.2 4.1 4.4 3.7 3.4 3.3 3.4 5.9 | 59 50 62 45 48 66 52 51 49 73 | 81 75 83 77 71 86 79 77 75 83 | 40 32 52 26 27 35 | 74 65 68 63 56 73 |
| | | | | | | TASI | MANIA | | | | | | |
| Burnie Launceston . Zeehan . | : | : | 83 80 77 | 990 719 2,444 | 158 140 239 | 18.4 23.3 20.3 | 12.4 10.7 10.7 | 12.2 10.4 8.1 | 4.7 3.1 4.0 | 66 61 69 | 83 77 81 | 59 42 58 | 2 70 75 |

NOTE. The table on the next page gives the latitude, longitude, and altitude of the weather recording station at each of the above towns.

CLIMATE OF AUSTRALIA

LOCATION CO-ORDINATES FOR SELECTED AUSTRALIAN LOCALITIES

| Station | Lat. | Long. | Altitude (m) | Station | 1 | Lat. | Long. | Altitude (m) |
|---|--------------------|----------------------|-----------------|-----------------------------|-------|--------------|--------------------|-----------------|
| | | | | | | | - | |
| Western Australia- | | | | Queensland-contd | | | | |
| Albany | 34° 57′ | 117° 48′ | 69 | Toowoomba | . 27° | 33′ | 151° 57′ | 586 |
| Broome | 17° 57′ | 122° 13′ | 12 | Townsville | . 19° | 15' | 146° 46′ | 3 |
| Bunbury | 33° 19′ | 115° 38′ | 1 | | | | | |
| Carnarvon | 24° 35′ | 113° 39′ | 4 | | | | | |
| Esperance | 33° 51′ | 121° 53′ | 4 | New South Wales- | | | | |
| Geraldton | 28° 48′ | 114° 42′ | 28 | Albury . | . 36° | 06' | 146° 54′ | 183 |
| Kalgoorlie | 30° 46′ | 121° 27′ | 360 | Armidale . | . 30° | 32' | 151° 38′ | 980 |
| Meekatharra . | 26° 36′ | 118° 29′ | 517 | Bega | . 36° | 40′ | 149° 50′ | 1.5 |
| Narrogin | 32° 54′ | 117° 09′ | 351 | Bourke . | . 30° | 05' | 145° 58′ | 107 |
| Port Hedland . | 20° 23′ | 118° 37′ | 6 | Broken Hill . | . 31° | 57' | 141° 28′ | 298 |
| Wyndham | 15° 31′ | 128° 09′ | 6 | Cooma . | . 36° | 13' | 149° 08′ | 838 |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 120 07 | • | Dubbo . | | 10′ | 148° 37′ | 262 |
| | | | | Goulburn | | 45' | 149° 43′ | 633 |
| Northern Territory- | | | | Grafton . | . 29° | 41' | 152° 56′ | (|
| Alice Springs . | 23° 48′ | 133° 53′ | 546 | V | . 33° | 43′ | 150° 19′ | 1,000 |
| Tennant Creek . | 19° 38′ | 134° 11′ | | 7 | | 33′ | 146° 24′ | |
| Tommani Citon . | 1, 50 | 154 11 | 3.5 | Moree | | 28′ | 149° 51′ | |
| | | | | Newcastle . | | 55′ | 151° 49′ | |
| South Australia | | | | Orange . | | 18′ | 149° 06′ | |
| Ceduna | 32° 08′ | 133° 42′ | 17 | Port Kembla | | 29′ | 150° 55′ | |
| Mount Gambier | 37° 45′ | 140° 47′ | | Tamworth . | | 05′ | 150° 56′ | 390 |
| Oodnadatta | 27° 33′ | 135° 29′ | | Taree | | '54 <i>'</i> | 152° 28′ | |
| Port Augusta . | 32° 33′ | 137° 47′ | | Wagga | | 08' | 147° 25′ | |
| Port Lincoln . | 34° 47′ | 135° 53′ | | Wollongong | | 25′ | 150° 56′ | |
| Port Pirie | 33° 11′ | 138° 01′ | | , chengeng | | | | |
| TOTETHIE | 33 11 | 130 01 | , | Victoria— | | | | |
| | | | | Ballarat . | . 379 | 35′ | 143° 50′ | 43 |
| Queensland- | | | | Bendigo . | | 46' | 144° 17′ | |
| Atherton | 17° 17′ | 145° 27′ | 752 | Geelong . | | 07′ | 144° 22′ | |
| Bundaberg | 24° 52′ | 152° 21′ | | Horsham . | | 40' | 142° 12′ | _ |
| Cairns | 16° 35′ | 145° 44′ | _ | Mildura . | | 14′ | 142° 05′ | |
| Charleville | 26° 25′ | 146° i7′ | | Sale | | 06' | 147° 08′ | |
| Charters Towers . | 20° 03′ | 146° 08′ | | Seymour . | | 02, | 145° 08′ | _ |
| | 20° 40′ | 140° 30′ | | Shepparton . | | 23′ | 145° 24′ | |
| Cloncurry | 20° 40′ 27° 38′ | 152° 44′ | | Wangaratta . | | ° 22′ | 146° 19′ | |
| Ipswich | 27 36' | 132 44 144° 15′ | | Wangaratta . Warrnambool | | ° 24′ | 142° 29′ | |
| Longreach | 23 26 21° 07′ | 144 13' | | ** 4111141110001 | . 50 | 47 | 172 27 | |
| Mackay | 25° 32′ | 149 10° | | Tasmania— | | | | |
| Maryborough . | 17° 39′ | 152° 42′ 141° 05′ | | Burnie . | 419 | ° 04 ′ | 145° 54′ | , |
| Normanton | | | | Launceston . | | ° 33′ | 147° 13′ | |
| Rockhampton . | 23° 23′ | 150° 29′ | | Zeehan . | | ° 54′ | 147 13 145° 23′ | |
| Roma | 26° 36′ | 148° 42′ | 303 | Leenan . | . 41 | J# | 143 23 | 10 |

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Seasonal rainfall

1974 (December 1973 to November 1974)

The following is a summary of rainfall experienced during the four seasons, commencing December 1973 and ending November 1974. Plate 2, page 29, shows the rainfall distribution for 1974.

Summer 1973-74 (December 1973 to February 1974) Over the northern half of Western Australia rainfall was well above average with record falls over the North Kimberley district. In the Southern half of the State rainfall was average or less with the lowest falls on record in the North Central district of the Southwest.

The Northern Territory received very much above average rainfall in most parts, with record falls in the Alice Springs and the Barkly districts.

South Australia received much above average rainfall over most of the State with record falls over the far North district.

In Queensland very much above average rainfall was received in most of the State with record falls in many districts and the worst flooding this century occurred, notably in the Brisbane area.

Rainfall in New South Wales was chiefly very much above average with record falls over western districts and flooding on many rivers.

Victoria's rainfall was above average over most areas of the State with record falls in the lower and upper North districts. The West Gippsland district was below average.

Tasmania received average rainfall except on the east coast where it was below average.

Autumn 1974 (March 1974 to May 1974) Western Australia received very much above average rainfall in the Kimberley and in the Southwest districts, but average to much above average elsewhere.

In the Northern Territory very much above average rainfall was received over most parts, except for average totals in the Arnhem district.

South Australia's rainfall was very much above average over most of the State.

Rainfall in Queensland was mainly well above average in the North and average in the South.

New South Wales rainfall was very much above average in the western and in the coastal areas. Elsewhere rainfall was average to much above average.

Victoria rainfall was mainly well above average.

Tasmania received very much below average rainfall over the west coast, much above average over the east coast and average elsewhere.

Winter 1974 (June 1974 to August 1974) In Western Australia rainfall was very much above average in the Gascoyne districts and average to much above average elsewhere.

Nearly the whole of the Northern Territory received scattered rain in August.

In South Australia rainfall was average.

Queensland received well below average rainfall in most parts of the State with very much below average in the North Coast (Barrow) district.

New South Wales received chiefly average rainfall with much below average totals in the Northwest Plains and very much above average in the South Coast district.

Rainfall in Victoria was average in most areas and very much above average in East Gippsland. Rainfall in Tasmania was above average with much above average totals towards the south coast.

Spring 1974 (September 1974 to November 1974) In Western Australia rainfall was average to very much above average, except for below average totals in the Central Coast district.

In the Northern Territory rainfall was very much above average over the south grading to average towards the north coast.

South Australia received very much above average rainfall over most parts of the State.

Queensland rainfall was mostly average with very much above average over Port Curtis (South Coast).

In New South Wales rainfall was very much above average over the Southwest, grading to average towards the coast.

Victoria received above average rainfall in most parts with very much above average in East Gippsland.

In Tasmania rainfall was about average with below average totals in the Derwent Valley.

Seasonal rainfall

1975 (December 1974 to November 1975)

The following is a summary of rainfall experienced during the four seasons commencing December 1974 and ending November 1975. Plate 3, page 30, shows the rainfall distribution for 1975.

Summer 1974-75 (December 1974 to February 1975) Western Australia recorded average rainfall or better in most areas with very much above totals over the Gascoyne districts and very much below over the Southwest Coast.

In the Northern Territory rainfall was above average or better in most areas with very much above average totals in the Barkly district.

South Australia received average rainfall or better in the north and below average in the south with very much below in the Murray districts.

Queensland rainfall was chiefly average with above average totals far to the west. There were a few pockets below average over the State.

In New South Wales rainfall was average in the north and mostly below average over the south, with very much below average totals over the Riverina districts.

In Victoria rainfall was very much below average in the Mallee and Wimmera districts, and elsewhere it was below average except for the Gippsland districts where totals were average.

Tasmania received average rainfall over the East Coast grading to very much above average towards the West Coast.

Autumn 1975 (March 1975 to May 1975) In Western Australia rainfall was average or better in most parts with well above average totals over the Murchison district. Exceptions were the Central Coast and West Kimberley districts where it was below average.

In the Northern Territory rainfall was mainly well above average with very much above average totals in the Darwin-Daly district.

In South Australia rainfall was average or better, except for well below average totals in the far North district.

Queensland rainfall was average over northern half and below average elsewhere.

New South Wales rainfall was chiefly well below average, except along the south coast where rainfall ranged from average to much above average.

In Victoria rainfall was below average in North Wimmera and West Central districts but elsewhere totals were average.

Tasmania rainfall was mostly very much above average and average over the East Coast and Midland districts.

Winter 1975 (June 1975 to August 1975) In the northern half of Western Australia rainfall was mostly average. In the southern half falls were below average grading to very much below in the Eucla district.

The Northern Territory received scattered rain in the Alice Springs district.

In South Australia rainfall was average over the northern half and well below average elsewhere.

In Queensland rainfall was about average or better in southern areas.

New South Wales received average rainfall over most parts of the State, except over the south coast where totals were well above average.

Victoria's rainfall was notably above average over most of the eastern half and deficient over most of the western half.

In Tasmania rainfall was well above average with very much above average totals in the southeast. Spring 1975 (September 1975 to November 1975) In Western Australia rainfall was mostly very much above average with record falls in central areas. Totals were below average in the Central Coast district of the Southwest.

The Northern Territory received much above average rainfall over most parts.

South Australia recorded mainly very much above average rainfall with record totals in the Lower North district.

Queensland received much above average rainfall over the northern half and average or better over the southern half.

In New South Wales rainfall was very much above average over the western half with record totals over the southwest. Elsewhere rainfall was average or better.

In most of Victoria rainfall was very much above average with record falls in northwest areas.

Tasmania rainfall was average over the northwest grading to very much above average towards the southeast.

CHAPTER 3

GENERAL GOVERNMENT

Parliamentary government

Scheme of parliamentary government

Under Section 1 of the Commonwealth of Australia Constitution the legislative power of the Commonwealth is vested in the Parliament of the Commonwealth, which consists of the Sovereign, the Senate, and the House of Representatives. The Sovereign is represented throughout the Commonwealth by the Governor-General who, subject to the Constitution of the Commonwealth, has such powers and functions as the Sovereign is pleased to assign to him. In each State there is a State Governor who is the representative of the Sovereign for the State. He has such powers within the State as are conferred upon him by the Letters Patent constituting his office and he exercises these powers in accordance with instructions issued to him by the Sovereign, detailing the manner in which his duties are to be fulfilled.

The Legislature in each State was bicameral until 1922, when the Queensland Parliament became unicameral with the abolition of the Upper House. In Queensland the sole legislative chamber is known as the Legislative Assembly. The Upper House is known in the Commonwealth Parliament as the Senate, and in the bicameral State Parliaments as the Legislative Council. The Lower House is known in the Commonwealth Parliament as the House of Representatives, in the State Parliaments of New South Wales, Victoria and Western Australia as the Legislative Assembly, and in the State Parliaments of South Australia and Tasmania as the House of Assembly. The extent of the legislative powers of the Parliaments is defined by the Commonwealth and State Constitutions. In those States that have a bicameral legislature the Legislative Assembly or House of Assembly is the larger House.

The members of the Legislative Assembly or House of Assembly, as the case may be, of each State are elected by the people, the franchise extending to British subjects who are at least 18 years of age with certain residential qualifications. With the exception of the New South Wales Legislative Council, the members of State Legislative Councils are, in common with members of the Lower Houses, elected by the people of the respective States. In New South Wales a quarter of the members of the Legislative Council retire each three years, and the continuing members of the Council and the members of the Legislative Assembly, voting as an electoral body, elect members to fill the vacant positions. In Victoria, and Tasmania members of the Legislative Council are elected by adult suffrage, while the franchise is limited in South Australia to the holders of certain property or service qualifications and their spouses. In the Commonwealth Parliament the qualifications for the franchise are identical for both Houses, extending to British subjects who have lived in Australia for six months continuously and who are not less than 18 years of age.

The Sovereign

On 7 February 1952 the Governor-General and members of the Federal Executive Council proclaimed Princess Elizabeth Queen Elizabeth the Second, Queen of this Realm and of all Her other Realms and Territories, Head of the Commonwealth, Defender of the Faith, Supreme Liege Lady in and over the Commonwealth of Australia. The coronation of Her Majesty in Westminster Abbey took place on 2 June 1953. By the Royal Style and Titles Act 1973, which Her Majesty assented to in Canberra on 19 October 1973, the Parliament of the Commonwealth assented to the adoption by Her Majesty, for use in relation to Australia and its Territories, of the Style and Titles set forth in the Schedule to the Act. On the same day, also in Canberra, Her Majesty's Style and Titles should henceforth be, in relation to Australia and its Territories, 'Elizabeth the Second, by the Grace of God Queen of Australia and Her other Realms and Territories, Head of the Commonwealth'.

The Governor-General

Powers and functions. As the Queen's representative in Australia, the Governor-General exercises cert ain prerogative powers and functions assigned to him by the Queen. Other powers and function are conferred on him by the Constitution. Powers which have been so assigned or conferred include, among others, the power to grant pardons and to remit fines for offences against the laws of the

Commonwealth to appoint certain officers in the Diplomatic or Consular Service; to appoint times for holding the sessions of the Parliament, prorogue Parliament, and dissolve the House of Representatives; to cause writs to be issued for general elections of members of the House of Representatives; to assent in the Queen's name to a proposed law passed by both Houses of the Parliament or withhold assent, or to reserve the law for the Queen's pleasure, or to return the proposed law to the House in which it originated and transmit therewith any amendments which he may recommend; to exercise executive power; to choose and summon Executive Councillors, who hold office during his pleasure; and to appoint Ministers of State for the Commonwealth. In addition, the command-in-chief of the defence forces of the Commonwealth is vested in the Governor-General as the Queen's representative.

Many Acts of the Commonwealth Parliament provide that the Governor-General may make regulations to give effect to the Act. The Governor-General may also be authorised by statute to issue proclamations—for example, to declare an Act in force. He has been given power by statute to legislate for certain of the Commonwealth Territories. Under the conventions of responsible government obtaining in British Commonwealth countries, the Governor-General's functions are exercised generally on the advice of Ministers of State.

Holders of office. The following list shows the names of the Governors-General since the inception of the Commonwealth of Australia.

GOVERNORS-GENERAL

- Rt Hon. John Adrian Louis, Earl of Hopetoun (afterwards Marquis of Linlithgow), P.C., K.T., G.C.M.G., G.C.V.O. From 1 January 1901 to 9 January 1903.
- Rt Hon. Hallam, Baron Tennyson, P.C., G.C.M.G. From 17 July 1902 to 9 January 1903 (Acting).
- Rt Hon. Hallam, Baron Tennyson, P.C., G.C.M.G. From 9 January 1903 to 21 January 1904.
- Rt Hon. Henry Stafford, Baron Northcote, P.C., G.C.M.G., G.C.I.E., C.B. From 21 January 1904 to 9 September 1908.
- Rt Hon. WILLIAM HUMBLE, EARL OF DUDLEY, P.C., G.C.B., G.C.M.G., G.C.V.O. From 9 September 1908 to 31 July 1911.
- Rt Hon. Thomas, Baron Denman, P.C., G.C.M.G., K.C.V.O. From 31 July 1911 to 18 May 1914.
- Rt Hon. Sir Ronald Craufurd Munro-Ferguson (afterwards Viscount Novar of Raith), G.C.M.G. From 18 May 1914 to 6 October 1920.
- Rt Hon. Henry William, Baron Forster of Lepe, P.C., G.C.M.G. From 6 October 1920 to 8 October 1925.
- Rt Hon. John Lawrence, Baron Stonehaven (afterwards 1st Viscount Stonehaven), P.C., G.C.M.G., D.S.O. From 8 October 1925 to 22 January 1931.
- Rt Hon. Sir Isaac Alfred Isaacs, G.C.B., G.C.M.G., K.C. From 22 January 1931 to 23 January 1936.
- Brigadier-General the Rt Hon. Alexander Gore Arkwright, Baron Gowrie (afterwards 1st Earl of Gowrie), V.C., P.C., G.C.M.G., C.B., D.S.O., K.G.St.J. From 23 January 1936 to 30 January 1945.
- His Royal Highness Prince Henry William Frederick Albert, Duke of Gloucester, Earl of Ulster and Baron Culloden, K.G., P.C., K.T., K.P., G.C.B., G.C.M.G., G.C.V.O., General in the Army, Air Chief Marshal in the Royal Air Force, One of His Majesty's Personal Aides-de-Camp. From 30 January 1945 to 11 March 1947.
- Rt Hon. SIR WILLIAM JOHN MCKELL, G.C.M.G., Q.C. From 11 March 1947 to 8 May 1953.
- Field Marshal SIR WILLIAM JOSEPH SLIM (afterwards VISCOUNT SLIM OF YARRALUMLA), K.G., G.C.B., G.C.M.G., G.C.V.O., G.B.E., D.S.O., M.C., K.ST.J. From 8 May 1953 to 2 February 1960.
- Rt Hon. WILLIAM SHEPHERD, VISCOUNT DUNROSSIL, P.C., G.C.M.G., M.C., K.ST.J., Q.C. From 2 February 1960 to 3 February 1961.
- Rt Hon. WILLIAM PHILIP, VISCOUNT DE LISLE, V.C., P.C., G.C.M.G., G.C.V.O., K.St.J. From 3 August 1961 to 22 September 1965.
- Rt Hon. RICHARD GARDINER, BARON CASEY, K.G., P.C., G.C.M.G., C.H., D.S.O., M.C., K.ST.J. From 22 September 1965 to 30 April 1969.
- Rt Hon. Sir Paul Hasluck, G.C.M.G., G.C.V.O., K.St.J. From 30 April 1969 to 11 July 1974. Hon. Sir John Robert Kerr, A.K., G.C.M.G., K.St.J., Q.C. From 11 July 1974.

Administrators. In addition to the holders of the office of Governor-General listed above, certain persons have, from time to time, been appointed as Administrator. Administrators are appointed in the event of the death, illness, or absence from Australia of the Governor-General, or for the period between the departure of a Governor-General and the arrival of his successor. The following is a list of such appointments.

ADMINISTRATORS

- Rt Hon. Frederic John Napier, Baron Chelmsford (afterwards 1st Viscount Chelmsford), K.C.M.G. From 21 December 1909 to 27 January 1910.
- Lieut.-Colonel the Rt Hon. Arthur Herbert Tennyson, Baron Somers, K.C.M.G., D.S.O., M.C. From 3 October 1930 to 22 January 1931.
- Captain the Rt Hon. WILLIAM CHARLES ARCEDECKNE, BARON HUNTINGFIELD, K.C.M.G., K.St.J. From 29 March 1938 to 24 September 1938.
- Major-General Sir Winston Joseph Dugan (afterwards 1st Baron Dugan of Victoria), G.C.M.G., C.B., D.S.O., From 5 September 1944 to 30 January 1945; 19 January 1947 to 11 March 1947.
- General* SIR JOHN NORTHCOTT, K.C.M.G., K.C.V.O., C.B. From 19 July 1951 to 14 December 1951; 30 July 1956 to 22 October 1956.
- General Sir Reginald Alexander Dallas Brooks, K.C.B., K.C.M.G.†, K.C.V.O., D.S.O., K.St.J. From 8 January 1959 to 16 January 1959; 4 February 1961 to 3 August 1961; 5 June 1962 to 3 October 1962; 21 November 1962 to 18 December 1962.
- General Sir Eric Winslow Woodward, K.C.M.G., K.C.V.O., C.B., C.B.E., D.S.O., K.St.J. From 16 June 1964 to 30 August 1964.
- Colonel Sir Henry Abel Smith, K.C.M.G., K.C.V.O., D.S.O., K.St.J. From 7 May 1965 to 22 September 1965.
- Lieut.-General SIR EDRIC MONTAGUE BASTYAN, K.C.M.G., K.C.V.O., K.B.E., C.B. From 24 April 1967 to 1 June 1967.
- Major-General Sir Rohan Delacombe, K.C.M.G., K.C.V.O., K.B.E., C.B., D.S.O., K.St.J. From 11 February 1971 to 18 February 1971; 12 October 1971 to 19 October 1971; 29 June 1972 to 9 August 1972; 5 April 1974 to 8 April 1974.
- SIR ARTHUR RODEN CUTLER, V.C., K.C.M.G., K.C.V.O., C.B.E., K.ST.J. From 20 February 1975 to 13 March 1975; 12 May 1975 to 24 May 1975; 16 September 1975 to 17 September 1975; 23 December 1975 to 3 February 1976.

Governors of the States

Powers and functions. The Queen is represented in each of the States by a Governor, the office having been constituted by Letters Patent under the Great Seal of the United Kingdom of various dates. The Governors of the States exercise prerogative powers conferred on them by these Letters Patent, their Commissions of appointment, and the Governor's Instructions given them under the Royal Sign Manual and Signet or other instrument as specified in the Letters Patent. In addition, they have been invested with various statutory functions by State Constitutions and other Imperial Acts and by Acts of the Parliaments of the States.

A Governor of a State assents in the Queen's name to Bills passed by the Parliament of the State, except those reserved for the Royal assent. The latter include certain classes of Bills which are regulated by the Constitution Acts and by the Governor's Instructions. He administers the prerogative of mercy by the reprieve or pardon of criminal offenders within his jurisdiction, and may remit fines and penalties due to the Crown. In the performance of his functions generally, particularly those conferred by Statute, the Governor of a State acts on the advice of Ministers of State for the State.

Holders of office. The names of the present (July 1976) State Governors are as follows:

STATE GOVERNORS, JULY 1976

New South Wales—SIR ARTHUR RODEN CUTLER, V.C., K.C.M.G., K.C.V.O., C.B.E., K.St.J. Victoria—SIR HENRY ARTHUR WINNEKE, K.C.M.G., O.B.E., K.St.J., Q.C.

Queensland—Air Marshal Sir Colin Thomas Hannah, K.C.M.G., K.B.E., C.B., K.St.J.

South Australia-SIR MARK LAURENCE ELWIN OLIPHANT, K.B.E., K.ST.J.

Western Australia—Air Chief Marshal Sir Wallace Hart Kyle, G.C.B., C.B.E., D.S.O. D.F.C., K.St.J.

Tasmania-Sir Stanley Charles Burbury, K.B.E., K.St.J.

[•] Lieutenant-General Sir John Norcott was granted honorary rank of General while administering the Government of the Commonwealth. † G.C.M.G., 1963

The Cabinet and executive government

Both in the Commonwealth and the States, executive government is based on the system which was evolved in Britain in the 18th Century, and which is generally known as 'Cabinet' or 'responsible' government. Its essence is that the head of the State (Her Majesty the Queen, and her representative the Governor-General or Governor) should perform governmental acts on the advice of her Ministers; that her Ministers of State should be appointed from members of Parliament belonging to the party, or coalition of parties, commanding a majority in the lower House; that the Ministry should be collectively responsible to that House for the Government of the country; and that the Ministry should resign if it ceases to command a majority there.

The Cabinet system operates chiefly by means of constitutional conventions, customs, or understandings, and through institutions that do not form part of the legal structure of the government at all. The Commonwealth and State Constitutions make fuller legal provision for the Cabinet system than the British Constitution does—for example, by requiring that Ministers shall either be, or within a prescribed period become, members of the Legislature. In general, however, the legal structure of the executive government remains the same as it was before the establishment of the Cabinet system.

The executive power of the Commonwealth is exercisable by the Governor-General, and that of the States by the Governor. In each case he is advised by an Executive Council, which, however, meets only for certain formal purposes, as explained below. The whole policy of a Ministry is, in practice, determined by some or all of the Ministers of State, meeting without the Governor-General or Governor, under the chairmanship of the Prime Minister or Premier. This group of Ministers is known as the Cabinet.

The Cabinet. The Cabinet of the Liberal/National Country Party Coalition Government comprises the twelve senior Ministers. Other Ministers attend meetings of Cabinet only when required. Meetings of the full Ministry are held when deemed necessary. There are six Standing Committees of the Cabinet with varying numbers of Cabinet and non-Cabinet Ministers. In Labor Governments all Ministers have been members of Cabinet. Cabinet meetings are private and deliberative and records of meetings are not made public. The Cabinet does not form part of the legal mechanisms of Government; the decisions it takes have, in themselves, no legal effect. As Ministers are the leaders of the party or parties commanding a majority in the lower House, the Cabinet substantially controls, in ordinary circumstances, not only the general legislative program of Parliament, but the whole course of Parliamentary proceedings. In effect, though not in form, the Cabinet, by reason of the fact that all Ministers are members of the Executive Council, is also the dominant element in the executive government of the country.

The Executive Council. This body is usually presided over by the Governor-General or Governor, the members thereof holding office during his pleasure. All Ministers of State must be members of the Executive Council. In the case of the Commonwealth Government and also in the case of the States of Victoria and Tasmania, Ministers remain members of the Executive Council on leaving office, but are not summoned to attend its meetings, for it is an essential feature of the Cabinet system that attendance should be limited to the Ministers of the day. The Meetings of the Executive Council are formal and official in character, and a record of proceedings is kept by the Secretary or Clerk. At Executive Council meetings the decisions of the Cabinet are, where necessary, given legal form, appointments made, resignations accepted, proclamations issued, and regulations and the like approved.

The appointment of Ministers. Legally, Ministers hold office during the pleasure of the Governor-General or Governor. In practice, however, the discretion of the Queen's representative in the choice of Ministers is limited by the conventions on which the Cabinet system rests. When a Ministry resigns, the Crown's custom is to send for the leader of the party which commands, or is likely to be able to command, a majority in the Lower House, and to commission him, as Prime Minister or Premier, to 'form a Ministry'—that is, to nominate other persons to be appointed as Ministers of State and to serve as his colleagues in the Cabinet.

Ministers in Upper and Lower Houses. The following table shows the distribution of Ministers in the Houses of each Parliament in July 1976,

AUSTRALIAN PARLIAMENTS: MINISTERS IN UPPER OR LOWER HOUSES JULY 1976

| Ministers with seats in— | Со | mmon- wealth | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|--------------------------|----|-----------------|--------|------|-----|------|------|------|-------|
| The Upper House | | 6 | 1 | 6 | (a) | 3 | 4 | 1 | 21 |
| The Lower House | | 18 | 17 | 12 | 18 | 9 | 9 | 9 | 92 |
| Total . | | 24 | 18 | 18 | 18 | 12 | 13 | 10 | 113 |

Commonwealth Government Ministeries

Names and tenure of office, 1901 to 1976. The following list shows the name of each Commonwealth Government Ministry to hold office since 1 January 1901, and the limits of its term of office.

COMMONWEALTH GOVERNMENT MINISTRIES, 1901 TO JULY 1976

- (i) BARTON MINISTRY, 1 January 1901 to 24 September 1903.
- (ii) DEAKIN MINISTRY, 24 September 1903 to 27 April 1904.
- (iii) Watson Ministry, 27 April 1904 to 17 August 1904.
- (iv) Reid-McLean Ministry, 18 August 1904 to 5 July 1905.
- (v) DEAKIN MINISTRY, 5 July 1905 to 13 November 1908. (vi) FISHER MINISTRY, 13 November 1908 to 1 June 1909.
- (vii) DEAKIN MINISTRY, 2 June 1909 to 29 April 1910.
- (viii) FISHER MINISTRY, 29 April 1910 to 24 June 1913.
- (ix) Cook Ministry, 24 June 1913 to 17 September 1914.
- (x) FISHER MINISTRY, 17 September 1914 to 27 October 1915
- (xi) Hughes Ministry, 27 October 1915 to 14 November 1916.
- (xii) Hughes Ministry, 14 November 1916 to 17 February 1917.
- (xiii) Hughes Ministry, 17 February 1917 to 10 January 1918.
- (xiv) Hughes Ministry, 10 January 1918 to 9 February 1923.
- (xv) Bruce-Page Ministry, 9 February 1923 to 22 October 1929.
- (xvi) Scullin Ministry, 22 October 1929 to 6 January 1932. (xvii) Lyons Ministry, 6 January 1932 to 7 November 1938.
- (xviii) Lyons Ministry, 7 November 1938 to 7 April 1939.
- (xix) PAGE MINISTRY, 7 April 1939 to 26 April 1939.
- (xx) Menzies Ministry, 26 April 1939 to 14 March 1940.
- (xxi) Menzies Ministry, 14 March 1940 to 28 October 1940.
- (xxii) Menzies Ministry, 28 October 1940 to 29 August 1941.
- (xxiii) Fadden Ministry, 29 August 1941 to 7 October 1941.
- (xxiv) Curtin Ministry, 7 October 1941 to 21 September 1943.
- (xxv) Curtin Ministry, 21 September 1943 to 6 July 1945.
- (xxvi) Forde Ministry, 6 July 1945 to 13 July 1945.
- (xxvii) CHIFLEY MINISTRY, 13 July 1945 to 1 November 1946.
- (xxviii) Chifley Ministry, 1 November 1946 to 19 December 1949.
- (xxix) MENZIES MINISTRY, 19 December 1949 to 11 May 1951.
- (xxx) Menzies Ministry, 11 May 1951 to 11 January 1956.
- (xxxi) Menzies Ministry, 11 January 1956 to 10 December 1958.
- (xxxii) Menzies Ministry, 10 December 1958 to 18 December 1963. (xxxiii) Menzies Ministry, 18 December 1963 to 26 January 1966.
- (xxxiv) HOLT MINISTRY, 26 January 1966 to 14 December 1966.
- (xxxv) Holt Ministry, 14 December 1966 to 19 December 1967.
- (xxxvi) McEwen Ministry, 19 December 1967 to 10 January 1968.
- (xxxvii) Gorton Ministry, 10 January 1968 to 28 February 1968.
- (xxxviii) Gorton Ministry, 28 February 1968 to 12 November 1969.
- (xxxix) Gorton Ministry, 12 November 1969 to 10 March 1971.
- - (xl) McMahon Ministry, 10 March 1971 to 5 December 1972. (xli) WHITLAM MINISTRY, 5 December 1972 to 19 December 1972.
- (xlii) WHITLAM MINISTRY, 19 December 1972 to 11 November 1975.
- (xliii) Fraser Ministry, 11 November 1975 to 22 December 1975.
- (xliv) Fraser Ministry, 22 December 1975

Names of Members of each Ministry to 8 July 1976. In Year Book No. 17, 1924, the names are given of each Ministry up to the Bruce-Page Ministry (9 February 1923 to 22 October 1929,) together with the names of the successive holders of portfolios therein, and issue No. 39 contains a list, commencing with the Bruce-Page Ministry, which covers the period between the date on which it assumed power, 9 February 1923, and 31 July 1951, showing the names of all persons who held office in each Ministry during that period. The names of members of subsequent Ministries are listed in successive issues of the Year Book after No. 39.

This issue shows only particulars of the First Fraser Ministry and the Second Fraser Ministry (at 8 July 1976).

THE FIRST FRASER MINISTRY

(The State in which each Minister's electorate is situated and party affiliation are shown in parenthesis. Party affiliation is indicated by the use of the following abbreviations: L.P. Liberal Party of Australia; N.C.P. National Country Party of Australia).

Prime Minister-

THE HON. J. M. FRASER, M.P. (Vic.) (L.P.)

Deputy Prime Minister, Minister for Overseas Trade and Minister for Minerals and Energy— THE RT HON. J. D. ANTHONY, M.P. (N.S.W.)

(N.C.P.)

Treasurer-

THE HON. P. R. LYNCH, M.P. (Vic.) (L.P.)

Minister for Agriculture and Minister for Northern Australia—

THE HON. I. McC. SINCLAIR, M.P. (N.S.W.) (N.C.P.)

Special Minister of State, Minister for the Capital Territory, Minister for the Media, Minister for Tourism and Recreation and Vice-President of the Executive Council—

SENATOR THE HON. R. G. WITHERS (W.A.) (L.P.)

Attorney-General and Minister for Police and Customs—

Senator The Hon. I. J. Greenwood, Q.C. (Vic.) (L.P.)

Minister for Manufacturing Industry and Minister for Science and Consumer Affairs—

SENATOR THE HON. R. C. COTTON (N.S.W.) (L.P.)

Minister for Transport and Postmaster-General— THE HON. P. J. NIXON, M.P. (Vic.) (N.C.P.)

Minister for Foreign Affairs and Minister for Environment—

THE HON. A. S. PEACOCK, M.P. (Vic.) (L.P.)

Minister for Social Security, Minister for Health and Minister for Repatriation and Compensation— THE HON, D. L. CHIPP, M.P. (Vic.) (L.P.)

Minister for Defence—

THE HON. D. J. KILLEN, M.P. (Qld) (L.P.)

Minister for Aboriginal Affairs and Minister for Administrative Services—

SENATOR THE HON. T. C. DRAKE-BROCKMAN, D.F.C. (W.A.) (N.C.P.)

Minister for Housing and Construction and Minister for Urban and Regional Development— SENATOR THE HON. J. L. CARRICK (N.S.W.) (L.P.)

Minister for Labor and Immigration— THE HON. A. A. STREET, M.P. (Vic.) (L.P.)

Minister for Education—

SENATOR THE HON. MARGARET G. C. GUILFOYLE (Vic.) (L.P.)

THE SECOND FRASER MINISTRY—AT 8 JULY 1976

(For abbreviations see headnote to first Fraser Ministry)

*Prime Minister-

THE RT HON. J. M. FRASER, M.P. (Vic.) (L.P.)

* Deputy Prime Minister, Minister for National Resources and Minister for Overseas Trade— THE RT HON. J. D. ANTHONY, M.P. (N.S.W.) (N.C.P.)

*Treasurer-

THE HON. P. R. LYNCH, M.P. (Vic.) (L.P.)

*Minister for Primary Industry and Leader of the House—

THE HON. I. McC. SINCLAIR, M.P. (N.S.W.) (N.C.P.)

*Minister of Administrative Services, Vice-President of the Executive Council and Leader of the Government in the Senate---

SENATOR THE HON. R. G. WITHERS (W.A.) (L.P.)

*Minister for Industry and Commerce— SENATOR THE HON. R. C. COTTON (N.S.W.) (L.P.)

*Minister for Employment and Industrial Relations and Minister Assisting the Prime Minister in Public Service Matters—

THE HON. A. A. STREET, M.P. (Vic.) (L.P.)

*Minister for Transport—

THE HON. P. J. NIXON, M.P. (Vic.) (N.C.P.)

*Minister for Education and Minister Assisting the Prime Minister in Federal Affairs—

SENATOR THE HON. J. L. CARRICK (N.S.W.) (L.P.)

*Minister for Foreign Affairs— THE HON. A. S. PEACOCK, M.P. (Vic.) (L.P.)

*Minister for Defence—

THE HON. D. J. KILLEN, M.P. (Qld) (L.P.)

*Minister for Social Security—
SENATOR THE HON MARCABET

SENATOR THE HON. MARGARET G. C. GUILFOYLE (Vic.) (L.P.)

Attorney-General-

THE HON. R. J. ELLICOTT, Q.C., M.P. (N.S.W.) (L.P.)

Minister for Business and Consumer Affairs— THE HON. J. W. HOWARD, M.P. (N.S.W.) (L.P.)

Minister for Health-

THE HON. R. J. D. HUNT, M.P. (N.S.W.) (N.C.P.)

Minister for Immigration and Ethnic Affairs— THE HON M. J. R. MACKELLAR, M.P. (N.S.W.) (L.P.)

Minister for Aboriginal Affairs—

THE HON. R. I. VINER, M.P. (W.A.) (L.P.)

Minister for the Northern Territory and Minister Assisting the Minister for National Resources— THE HON. A. E. ADERMANN, M.P. (Old)

THE HON. A. E. ADERMANN, M.P. (Qld) (N.C.P.)

Minister for Post and Telecommunications and Minister Assisting the Treasurer—

THE HON. E. L. ROBINSON, M.P. (Qld) (L.P.)

Minister for Construction and Minister Assisting the Minister for Defence—

THE HON. J. E. MCLEAY, M.P. (S.A.) (L.P.)

Minister for Environment, Housing and Community Development—

THE HON. K. E. NEWMAN, M.P. (Tas.) (L.P.)

Minister for Science—

SENATOR THE HON. J. J. WEBSTER (Vic.) (N.C.P.)

Minister for the Capital Territory-

THE HON. A. A. STALEY, M.P. (Vic.) (L.P.)

Minister for Repatriation-

SENATOR THE HON. P. D. DURACK (W.A.) (L.P.)

^{*} Minister in the Cabinet.

State Premiers, July 1976

The names of the Premiers of each State in July 1976 are shown below.

STATE PREMIERS, JULY 1976†

New South Wales-The Hon. N. K. Wran, Q.C., M.L.A. (A.L.P.)

Victoria—The Hon. R. J. Hamer, E.D., M.L.A. (L.P.)

Queensland-The Hon. J. Bjelke-Petersen, M.L.A. (C.P.)

South Australia—The Hon. D. A. Dunstan, Q.C., M.P. (A.L.P.)

Western Australia-The Hon. Sir Charles Court, O.B.E., M.L.A. (L.P.)

Tasmania—The Hon. W. A. Neilson, M.H.A. (A.L.P.)

Leaders of the Opposition, Commonwealth and State Parliaments, July 1976

The Leader of the Opposition plays an important part in the Party system of government which operates in the Australian Parliaments. The following list gives the names of the holders of this position in each of the Parliaments in July 1976.

LEADERS OF THE OPPOSITION, JULY 1976†

Commonwealth-The Hon. E. G. Whitlam, Q.C., M.P. (A.L.P.)

New South Wales--Sir Eric Willis, K.B.E., C.M.G., M.L.A. (L.P.)

Victoria—A. C. Holding, M.L.A. (A.L.P.)

Queensland-T. J. Burns, M.L.A. (A.L.P.)

South Australia-Dr D. O. Tonkin, M.P. (L.P.)

Western Australia-The Hon. C. J. Jamieson, M.L.A. (A.L.P.)

Tasmania—The Hon, E. M. Bingham, Q.C., M.H.A. (L.P.)

Numbers and salaries of Commonwealth Government Ministers

Under Sections 65 and 66, respectively, of the Constitution of the Commonwealth of Australia the number of Ministers of State was not to exceed seven, and the annual sum payable for their salaries was not to exceed £12,000 (\$24,000), each provision to operate, however, 'until the Parliament otherwise provides'.

Subsequently the number and salaries have been increased from time to time, and at July 1976 the annual sum payable for salaries is \$407,700 and the number of Ministers is twenty-four. An additional ministerial allowance of \$10,900 a year is payable to the Prime Minister, and an additional ministerial allowance of \$5,200 a year to the Deputy Prime Minister and \$4,875 a year to other Ministers.

All amounts payable in the foregoing paragraphs are in addition to amounts payable as Parliamentary allowances (see page 93).

Parliaments and elections

The Commonwealth Parliaments

The first Parliament of the Commonwealth of Australia was convened by proclamation dated 29 April 1901 by His Excellency the Marquis of Linlithgow, then Earl of Hopetoun, Governor-General. It was opened on 9 May 1901 by H.R.H. the Duke of Cornwall and York. The Rt Hon. Sir Edmund Barton, G.C.M.G., K.C., was Prime Minister.

The following table shows the number and duration of Parliaments since federation.

COMMONWEALTH PARLIAMENTS

| Number of Parli | amen | t | Date of opening | | Date of dissolution |
|-----------------|------|---|-------------------|---|---------------------|
| First | | | 9 May 1901 . | • | 23 November 1903 |
| Second . | | | 2 March 1904 | | 5 November 1906 |
| Third | | | 20 February 1907 | | 19 February 1910 |
| Fourth . | | | 1 July 1910 . | | 23 April 1913 |
| Fisth | | | 9 July 1913 | | 30 July 1914(a) |
| Sixth | | | 8 October 1914 . | | 26 March 1917 |
| Seventh . | | | 14 June 1917 . | | 3 November 1919 |
| Eighth . | | | 26 February 1920 | | 6 November 1922 |
| Ninth . | | | 28 February 1923 | | 3 October 1925 |
| Tenth . | | | 13 January 1926 . | | 9 October 1928 |
| Eleventh . | | | 6 February 1929. | | 16 September 1929 |
| Twelfth . | | | 20 November 1929 | | 27 November 1931 |
| Thirteenth . | | | 17 February 1932 | | 7 August 1934 |
| Fourteenth. | | | 23 October 1934 . | | 21 September 1937 |
| Fifteenth . | | | 30 November 1937 | | 27 August 1940 |
| Sixteenth . | | | 20 November 1940 | | 7 July 1943 |
| Seventeenth | | | 23 September 1943 | | 16 August 1946 |
| Eighteenth . | | | 6 November 1946 | | 31 October 1949 |
| Nineteenth . | | | 22 February 1950 | | 19 March 1951(a) |
| Twentieth . | | | 12 June 1951 . | | 21 April 1954 |
| Twenty-first | | | 4 August 1954 . | | 4 November 1955 |
| Twenty-second | | | 15 February 1956 | | 14 October 1958 |
| Twenty-third | | | 17 February 1959 | | 2 November 1961 |
| Twenty-fourth | | | 20 February 1962 | | 1 November 1963 |
| Twenty-fifth | | | 25 February 1964 | | 31 October 1966 |
| Twenty-sixth | | | 21 February 1967 | | 29 September 1969 |
| Twenty-seventh | | | 25 November 1969 | | 2 November 1972 |
| Twenty-eighth | | | 27 February 1973 | | 11 April 1974(a) |
| Twenty-ninth | | | 9 July 1974 . | | 11 November 1975(|
| Thirtieth | | | 17 February 1976 | | , |
| | | | • | | |

(a) A dissolution of both the Scnate and the House of Representatives was granted by the Governor-General under section 57 of the Constitution.

There have been twenty-nine complete Parliaments since Federation. Until 1927 the Parliament met in Melbourne; it now meets in Canberra, the first meeting at Parliament House, Canberra, being opened by the Duke of York on 9 May 1927.

The twenty-ninth Parliament opened on 9 July 1974 and ended on 11 November 1975 when a dissolution of both the Senate and the House of Representatives was granted by the Governor-General under Section 57 of the Constitution. The date of elections for both Houses was fixed for 13 December 1975. Writs were issued by the Governor-General on 17 November 1975 for the House of Representatives elections in all States and Territories (except South Australia and Western Australia, for which States the writs were issued on 21 November 1975). State Governors issued writs for the Senate elections on the same dates as those issued for the House of Representatives elections in the respective States. On 17 November 1975 the Governor-General issued the writs for the Senate elections in the Australian Capital Territory and Northern Territory. For voting figures see page 88. For particulars of electors enrolled and of electors who voted in the several States and Territories at previous Commonwealth elections for Parliament see Year Book No. 60 and earlier issues.

A special article describing the Commonwealth Parliament, its functions and procedure, prepared by the Clerk of the Senate and the Clerk of the House of Representatives, appears in Year Book No. 49, pages 65-71.

Qualifications for membership and for franchise-Commonwealth Parliament

Qualifications necessary for membership of either House of the Commonwealth Parliament are possessed by any British subject, eighteen years of age or over and not disentitled on other grounds, who has resided in Australia for at least three years and who is, or is qualified to become an elector of the Commonwealth Parliament. Qualifications for Commonwealth Parliament franchise are possessed by any British subject, not under eighteen years of age and not disentitled on other grounds, who has lived in Australia for six months continuously. Residence in a Subdivision for a period of on month prior to enrolment is necessary to enable a qualified person to enrol. Enrolment and voting are compulsory except that the compulsory enrolment provisions do not relate to an Aboriginal

native of Australia. A member of the Defence Force on service outside Australia who is not less than eighteen years of age, is a British subject and has lived in Australia for six months continuously is entitled to vote at Commonwealth Parliament elections even though he may not be enrolled.

The principal reasons for disqualification of persons otherwise eligible for election as members of either Commonwealth House are: membership of the other House, allegiance to a foreign power, being attainted of treason, being convicted and under sentence for any offence punishable by imprisonment for one year or longer, being an undischarged bankrupt or insolvent, holding an office of profit under the Crown (with certain exceptions), or having pecuniary interest in any agreement with the public service of the Commonwealth Government except as a member of an incorporated company of more than twenty-five persons. Persons of unsound mind, attainted of treason, convicted and under sentence for any offence punishable by imprisonment for one year or longer, or persons who are holders of temporary entry permits under the *Migration Act* 1958 or are prohibited immigrants under that Act are excluded from the franchise. In the main, these or similar grounds for disqualification apply also to State Parliament membership and franchise. Aborigines are entitled to enrol and to vote at both Commonwealth and State elections in all States.

Commonwealth Parliaments and elections

From the establishment of the Commonwealth of Australia until 1949 the Senate consisted of thirty-six members, six being returned by each of the original federating States. The Constitution empowers Parliament to increase or decrease the size of the Parliament, and, as the population of Australia had more than doubled since its inception, the Parliament passed the Representation Act 1948 which provided that there should be ten Senators from each State instead of six, increasing the total to sixty Senators, thus enlarging both Houses of Parliament and providing a representation ratio nearer to the proportion which existed at Federation.

The Senate (Representation of Territories) Act 1973 (No. 39 of 1974), assented to on 7 August 1974, made provision for two Senators to be elected from both the Northern Territory and the Australian Capital Territory at the same time as the next election of Senators for a State or a general election for the House of Representatives, whichever first occurred. Consequently, at the election on 13 December 1975, 2 Senators were elected from each Territory, and the number of Senators increased to 64.

In accordance with the Constitution the total number of members of the House of Representatives must be as nearly as practicable double that of the Senate. Consequently, in terms of the Constitution and the Representation Act, from the date of the 1949 elections the number of members in the House of Representatives was increased from 74 to 121 (excluding the members for the internal Territories). As the States are represented in the House of Representatives on a population basis, the numbers were increased as follows: New South Wales—from 28 to 47; Victoria—from 20 to 33, Queensland—from 10 to 18; South Australia—from 6 to 10; and Western Australia—from 5 to 8. Tasmania's representation remained at 5 (the Constitution provides for a minimum of 5 members for each Original State). The increase in the number of members of Parliament necessitated a redistribution of seats and a redetermination of electoral boundaries. Redistributions are carried out by Distribution Commissioners appointed for each State. The redistributions are effected on a quota basis, but taking into account community interests, means of communication, physical features, existing boundaries, and other factors.

The population as disclosed by the Census taken on 30 June 1954 necessitated a futher alteration in representation in the House of Representatives in respect of New South Wales, South Australia, and Western Australia. Representation as from the general election for the House of Representatives on 10 December 1955 was: New South Wales 46, Victoria 33, Queensland 18, South Australia 11, Western Australia 9, Tasmania 5, the total number of members (excluding the members for the internal Territories) being increased from 121 to 122.

The population as disclosed by the Census taken on 30 June 1961 revealed that, under the provisions of the Representation Act, New South Wales, Queensland, and Western Australia would each lose one member in the House of Representatives, while Victoria would gain a member. The Distribution Commissioners' reports were duly laid before both Houses of Parliament, but the Government decided not to proceed with the proposals and announced that it would amend the Representation Act. In November 1964 the formula provided by Section 10 of the Representation Act for determining the number of members of the House of Representatives was amended so as to give a State an additional member for 'any portion of a quota'. The effect of that amendment would have been that at the next redistribution Victoria and South Australia would each gain one member while all other States would retain their existing representation. However, no fresh redistribution was effected prior to the 1966 Census. Consequent upon the population changes disclosed by the Census taken on 30 June 1966, a redistribution of the State electoral division boundaries was carried out in

1968 and the following representation in the House of Representatives became effective as from the general election held on 25 October 1969: New South Wales 45, Victoria 34, Queensland 18, South Australia 12, Western Australia 9 and Tasmania 5, the total number of members (excluding the members for the internal Territories) being increased from 122 to 123.

The population as disclosed by the Census taken on 30 June 1971 revealed that, under the provisions of the Representation Act, Western Australia would gain an additional member of the House of Representatives as from the next general elections following a redistribution of the electoral boundaries in that State. Subsequently, Distribution Commissioners for that State were appointed, and published their final recommendations on 13 February 1974. These recommendations, redistributing Western Australia into ten electoral Divisions for the House of Representatives, were approved by Parliament in April 1974. The new electoral boundaries were proclaimed by the Governor-General on 19 April 1974. A High Court judgment of 1 December 1975 indicated that the Representation Act fails to ensure that the determination of the number of Members of the House of Representatives to be chosen by the States in proportion to their populations will be effectively made in each triennial period. The decision of the Court was to the effect that—

Part III of the Commonwealth Electoral Act relating to the distribution of States into Electoral Divisions was not invalid; and

Sections 3, 4 and 12A of the Representation Act were invalid.

Amendments to the Representation Act are therefore essential. Henceforth the Chief Australian Electoral Officer will determine the representation of the several States during each normal Parliamentary triennium. Should the representation for any State be varied consequent upon such determination, a redistribution will be required. Future determinations will be based on latest available statistics prepared by the Australian Statistician, rather than on census figures.

Since the general election of 1922 the Northern Territory has been represented by one member in the House of Representatives, and the Australian Capital Territory has had similar representation since the elections of 1949. The member for the Australian Capital Territory has had full voting rights since the first sitting of the twenty-sixth Parliament. In May 1968 the Northern Territory Representation Act was amended to give full voting rights to the Member for the Northern Territory effective from 15 May 1968, the day on which the Act received Royal Assent.

Following Parliament's approval of the Australian Capital Territory Representation (House of Representatives) Bill in October 1973, a Distribution Committee was appointed for the purpose of distributing the Australian Capital Territory into two electoral Divisions. On 19 March 1974 the Committee published an initial redistribution proposal.

By early April 1974 there was an indication that the House of Representatives would be dissolved before the Distribution Committee could complete its task, in which event the Australian Capital Territory would be deprived of any representation in the next Parliament. Accordingly the Australian Capital Territory Representation (House of Representatives) Act 1974 was enacted to provide that the Territory be divided into two electoral divisions, adopting the boundaries recommended by the Distribution Committee on 19 March 1974. The 1974 House of Representative elections were held on those boundaries.

Members of the House of Representatives are elected for the duration of the Parliament, which is limited to three years. At elections for Senators the whole State constitutes the electorate. For the purpose of elections for the House of Representatives the State is divided into single electorates corresponding in number to the number of members to which the State is entitled. Further information regarding the Senate and the House of Representatives is given in earlier issues of the Year Book.

The Commonwealth Electoral Act 1948, enacted with the Representation Act 1948 which enlarged the Commonwealth Parliament (see page 86), changed the system of scrutiny and counting of votes in Senate elections from the alternative vote to that of proportional representation. For a description of the system, see Year Book No. 38, pages 82-3. The method of voting for both the Senate and the House of Representatives is preferential.

Particulars of voting at Senate elections and elections for the House of Representatives up to 1974 appear in earlier issues of the Year Book, and additional information is available in the Statistical Returns issued by the Chief Electoral Officer following each election and printed as Parliamentary Papers.

The numbers of electors and primary votes cast for the major political parties in each State and Territory at the latest election for each House of the Commonwealth Parliament were as follows.

COMMONWEALTH PARLIAMENT ELECTIONS, 13 DECEMBER 1975

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Australia |
|---|-----------|-----------|-----------|---------|---------|---------|--------|---------|-----------|
| | HOUSE | OF REPF | RESENTA | TIVES | ELECT | ION | | | |
| | 2,961,698 | 2,234,778 | 1,206,231 | 789,004 | 658,419 | 255,402 | 40,885 | 115,916 | 8,262,333 |
| Number of votes recorded for— Australian Labor Party | 1,260,335 | 882,842 | 439 405 | 316,006 | 244 404 | 105 324 | 12,944 | 51,744 | 3,313,004 |
| Liberal Party | 1,100,672 | 887,635 | 370,041 | | 326,679 | | 12,777 | 50,727 | 3,232,160 |
| National Country Party(a). | 326,124 | 186,667 | 303,107 | 4,070 | 30,727 | 3,248 | 15,976 | 30,727 | 869,919 |
| Liberal Movement | 520,121 | 100,007 | | 46 060 | | | 15,5.0 | 3,516 | 49,484 |
| Democratic Labor Party . | | 101,750 | | , | | | | -, | 101,750 |
| Australia Party | 10,931 | 21,473 | | 525 | | | 701 | | 33,630 |
| Workers Party | 30,986 | · | 17,341 | 2,604 | 5,576 | 2,550 | | 377 | 59,434 |
| Others | 43,072 | 17,280 | 3,700 | | 1,664 | | | 840 | 73,198 |
| Informal votes | 52,760 | 42,008 | 14,604 | 18,201 | 14,334 | 4,569 | 996 | 1,822 | 149,294 |
| Total votes recorded . | 2,824,880 | 2,139,705 | 1,148,198 | 759,369 | 623,384 | 246,694 | 30,617 | 109,026 | 7,881,873 |
| | | SENA | ATE ELE | CTION | | | | | |
| Electors enrolled | | 2,234,778 | 1,206,231 | 789,004 | 658,419 | 255,402 | 40,885 | 115,916 | 8,262,333 |
| Australian Labor Party Liberal Party; National | 1,123,462 | 811,773 | 387,740 | 277,800 | 203,151 | 78,310 | 10,207 | 33,867 | 2,931,310 |
| Country Party(a)(b) | 1.258.859 | 993,634 | 603,228 | 351,818 | 287,358 | 108,853 | | 45,743 | 3,649,493 |
| National Country Party(a)(b) | | | | | 38,366 | 3,611 | 15,519 | , | 57,496 |
| Liberal Movement | 6,218 | 16,279 | 4,709 | 44,136 | 5,084 | · | ٠., | | 76,426 |
| Democratic Labor Party . | 44,543 | 115,866 | 26,833 | 942 | 2,865 | | • • | • • • | 191,049 |
| Australia Party | 10,616 | 19,319 | 2,516 | | 1,616 | :: | 565 | -11 | 34,632 |
| Workers Party | 28,513 | 0.200 | 20,857 | 4,085 | 6,726 | 1,007 | 615 | 582 | 62,385 |
| Others | 77,537 | 9,206 | 7,326 | 5,048 | 10,946 | 30,538 | 1,521 | 19,800 | 161,922 |
| Informal votes | 275,132 | 173,628 | 94,989 | 75,540 | 67,272 | 24,375 | 2,190 | 4,034 | 717,160 |
| Total votes recorded . | 2,824,880 | 2,139,705 | 1,148,198 | 759,369 | 623,384 | 246,694 | 30,617 | 109,026 | 7,881,873 |

⁽a) The National Country Party is known in the various States as follows: New South Wales—Australian Country Party; Victoria, Queensland and Tasmania—National Party; South Australia and Western Australia—National Country Party. In the Northern Territory it is known as the Country Liberal Party. (b) In New South Wales, Victoria and Queensland the Liberal Party and the National Country Party candidates stood as one group; in South Australia and the Australian Capital Territory only the Liberal Party stood as a group; in Western Australia and Tasmania the National Country Party and the National Party respectively, and the Liberal Party each stood as separate groups; in Northern Territory there was a Country Liberal Party group only.

The Senate and House of Representatives Election, 13 December 1975

Membership at 18 February 1976 was: Senate—Australian Labor Party, 27; Liberal Party of Australia, 27; National Country Party of Australia, 8; Independent, 1; Liberal Movement, 1; House of Representatives—Australian Labor Party, 36; Liberal Party of Australia, 68; National Country Party of Australia, 23.

Members of the Commonwealth Parliament

The following is a list of Senators and Members of the House of Representatives of the Commonwealth Parliament at 7 June 1976. Party affiliation is indicated by the use of the following abbreviations:

A.L.P.—Australian Labor Party

Ind.—Independent

L.M.-Liberal Movement

L.P.—Liberal Party of Australia

N.C.P.—National Country Party of Australia (see footnote (a) above)

MEMBERS OF THE COMMONWEALTH PARLIAMENT, 7 JUNE 1976(a) THE SENATE

President:

SENATOR THE HON. C. L. LAUCKE

Chairman of Committees:

SENATOR THE HON. T. C. DRAKE-BROCKMAN, D.F.C.

Leader of the Government in the Senate:

SENATOR THE HON. R. G. WITHERS

Leader of the Opposition in the Senate:

SENATOR THE HON. K. S. WRIEDT

| Senator S | State | Term(b) expires 30 June | Senator | State | Term(b) expires 30 June |
|---|--------|-------------------------------|---------------------------------|--------|-------------------------------|
| Archer, B. R. (L.P.) | Tas. | . 1978 | Lajovic, M. E. (L.P.) | N.S.W. | . 197 ₀ |
| Baume, P. E. (L.P.) | N.S.W. | . 1978 | Laucke, Hon. C. L. (L.P.) | S.A. | . 1981 |
| Bishop, Hon. R. (A.L.P.). | S.A. | . 1981 | McAuliffe, R. E. (A.L.P.) | Qld | . 1981 |
| Bonner, N. T. (L.P.) | Qld | . 1981 | McClelland, Hon. D. (A.L.P.) | N.S.W. | . 1981 |
| Brown, W. W. C. (A.L.P.) . ' | Vic. | . 1978 | McClelland, Hon. J. R. (A.L.P.) | N.S.W. | . 1981 |
| Button, J. N. (A.L.P.) | Vic. | . 1978 | McIntosh, G. D. (A.L.P.) | W.A. | . 1981 |
| Cameron, D. N. (A.L.P.). | S.A. | . 1978 | McLaren, G. T. (A.L.P.). | S.A. | . 1978 |
| Carrick, Hon. J. L. (L.P.) | N.S.W. | . 1981 | Martin, Kathryn J. (L.P.) | Qld | . 1978 |
| Cavanagh, Hon. J. L. (A.L.P.). | S.A. | . 1981 | Maunsell, C. R. (N.C.P.). | Qld | . 1981 |
| Chaney, F. M. (L.P.) | W.A. | . 1978 | Melzer, Jean I. (A.L.P.) | Vic. | . 1981 |
| Coleman, Ruth N. (A.L.P.) | W.A. | . 1978 | Messner, A. J. (L.P.) | S.A. | . 1978 |
| Collard, S. J. (N.C.P.) | Qld | . 1978 | Missen, A. J. (L.P.) | Vic. | . 1978 |
| Colston, M. A. (A.L.P.) | Õld | . 1978 | Mulvihill, J. A. (A.L.P.) . | N.S.W. | . 1978 |
| Cormack, Hon. Sir Magnus, | νic. | . 1978 | O'Byrne, J. (A.L.P.) | Tas. | . 1981 |
| K.B.E. (L.P.) | | | Primmer, C. G. (A.L.P.) . | Vic. | . 1981 |
| Cotton, Hon. R. C. (L.P.) | N.S.W. | . 1981 | Rae, P. E. (L.P.) | Tas. | . 1981 |
| | S.A. | . 1981 | Robertson, E. A. (A.L.P.) | N.T. | . (c) |
| | Tas. | . 1978 | Ryan, Susan M. (A.L.P.). | A.C.T. | $\dot{(c)}$ |
| | W.A. | . 1978 | Scott, D. B. (N.C.P.) | N.S.W. | |
| D.F.C. (N.C.P.) | | | Sheil, G. (N.C.P.) | Old | . 1981 |
| | W.A. | . 1981 | Sibraa, K. W. (A.L.P.) | Ñ.S.W. | . 1978 |
| , | Qld | . 1978 | Sim, J. P. (L.P.) | W.A. | . 1981 |
| | Ñ.S.W. | | Tehan, T. J. (N.C.P.) | Vic. | . 1978 |
| | Vic. | . 1981 | Thomas, A. M. (L.P.) | W.A. | . 1978 |
| (L.P.) | | | Townley, M. (L.P.). | Tas. | . 1981 |
| | Tas. | . 1978 | Walsh, P. A. (A.L.P.) | W.A. | . 1978 |
| | Vic. | . 1981 | Walters, Mary S. (L.P.) | Tas. | . 1978 |
| (L.P.) | | , | Webster, Hon. J. J. (N.C.P.) | Vic. | . 1981 |
| | S.A. | . 1978 | Wheeldon, Hon. J. M. (A.L.P.) | W.A. | . 1981 |
| | Tas. | . 1981 | Withers, Hon. R. G. (L.P.) | W.A. | . 1981 |
| | S.A. | . 1981 | Wood, I. A. C. (L.P.) | Old | . 1978 |
| • | Old | . 1981 | Wriedt, Hon. K. S. (A.L.P.) | Tas. | . 1981 |
| | N.T. | . (c) | Wright, Hon. R. C. (L.P.) | Tas. | . 1978 |
| | A.C.T. | | Young, H. W. (L.P.) | S.A. | . 1978 |
| | л.с.т. | . (6) | 100,15, 11 (5.1.) | J./ 1. | |

⁽a) For later changes see Appendix. (b) Senators are elected for a term of six years on a rotational basis; the terms of half the Senators expire every third year. (c) Pursuant to the Senate (Representation of Territories Act) 1973, the term of office expires at the close of the day next preceding the polling day for the general election of Members of the House of Representatives.

MEMBERS OF THE COMMONWEALTH PARLIAMENT 7 JUNE 1976(a)—continued

THE HOUSE OF REPRESENTATIVES (Triennial Parliaments—Last General Election 13 December 1975)

Speaker:

THE RT HON. B. M. SNEDDEN, Q.C., M.P.

Chairman of Committees:

P. E. LUCOCK, C.B.E., M.P.

Leader of the House:

THE HON. I. McC. SINCLAIR, M.P.

Leader of the Opposition:

THE HON. E. G. WHITLAM, Q.C., M.P.

| Member | Division | Member | Division |
|---|--------------------|--|-----------------------------------|
| Abel, J. A. (L.P.) | Evans (N.S.W.) | Connolly, D. M. (L.P.) . | Bradfield (N.S.W.) |
| Adermann, Hon. A. E. (N.C.P.) | Fisher (Qld) | Connor, Hon. R. F. X. (A.L.P.) | Cunningham (N.S.W.) |
| Aldred, K. J. (L.P.) | Henty (Vic.) | Corbett, J. (N.C.P.) | Maranoa (Qld) |
| Anthony, Rt Hon. J. D. (N.C.P.) | Richmond (N.S.W.) | Cotter, J. F. (L.P.) . Crean, Hon. F. (A.L.P.). | Kalgoorlie (W.A.) Melbourne Ports |
| Armitage, J. L. (A.L.P.). | Chiffey (N.S.W.) | Dabia Han I D M | (Vic.) |
| Baillieu, M. (L.P.). | La Trobe (Vic.) | Dobie, Hon. J. D. M. | Cook (N.S.W.) |
| Baume, M. E. (L.P.) Beazley, Hon. K. E. | Macarthur (N.S.W.) | (L.P.) | Comment (W.A.) |
| (A.L.P.) | Fremantle (W.A.) | Drummond, P. H. (L.P.) Edwards, H. R. (L.P.) | Forrest (W.A.) Berowra (N.S.W.) |
| Birney, R. J. (L.P.) | Phillip (N.S.W.) | Ellicott, Hon, R. J. Q.C. | Wentworth (N.S.W.) |
| Bonnett, R. N. (L.P.) | Herbert (Qld) | (L.P.) | welltworth (14.5. W.) |
| Bourchier, J. W. (L.P.) | Bendigo (Vic.) | Falconer, P. D. (L.P.) | Casey (Vic.) |
| Bowen, Hon. L. F. | Kingsford-Smith | Fife, Hon. W. C. (L.P.) | Farrer (N.S.W.) |
| (A.L.P.) | (N.S.W.) | Fisher, P. S. (N.C.P.) | Mallee (Vic.) |
| Bradfield, J. M. (L.P.) | Barton (N.S.W.) | FitzPatrick, J. (A.L.P.) | Darling (N.S.W.) |
| Braithwaite, R. A. (N.C.P.) | Dawson (Qld) | Fraser, Rt Hon. J. M. (L.P.) | Wannon (Vic.) |
| Brown, N. A. (L.P.) | Diamond Valley | Fry, K. L. (A.L.P.) . | Fraser (A.C.T.) |
| | (Vic.) | Garland, Hon. R. V. | Curtin (W.A.) |
| Bryant, Hon. G. M., E.D. | Wills (Vic.) | (L.P.) | |
| (A.L.P.) | | Garrick, H. J. (A.L.P.) . | Batman (Vic.) |
| Bungey, M. H. (L.P.) | Canning (W.A.) | Giles, G. O'H. (L.P.) | Angas (S.A.) |
| Burr, M. A. (L.P.). | Wilmot (Tas.) | Gillard, R. (L.P.) | Macquarie (N.S.W.) |
| Cadman, A. G. (L.P.) | Mitchell (N.S.W.) | Goodluck, B. J. (L.P.) . | Franklin (Tas.) |
| Cairns, Hon. J. F. (A.L.P.) | Lalor (Vic.) | Graham, B. W. (L.P.) . | North Sydney (N.S.W.) |
| Cairns, Hon. K. M. (L.P.) | Lilley (Qld) | Groom, R. J. (L.P.) | Braddon (Tas.) |
| Calder, S. E., D.F.C. (N.C.P.) | Northern Territory | Hamer, D. J. D.S.C. (L.P.) | Isaacs (Vic.) |
| Cameron, Hon. C. R. (A.L.P.) | Hindmarsh (S.A.) | Haslem, J. W. (L.P.) Hayden, Hon. W. G. | Canberra (A.C.T.) Oxley (Qld) |
| Cameron, D. M. (L.P.) | Griffith (Qld) | (A.L.P.) | • , |
| Carige, C. L. (N.C.P.) | Capricornia (Qld) | Hodges, J. C. (L.P.) | Petrie (Qld) |
| Cass, Hon. M. H. | Maribyrnong (Vic.) | Hodgman, M. (L.P.) . | Denison (Tas.) |
| (A.L.P.) | · | Holten, Hon. R. McN. | Indi (Vic.) |
| Chapman, H. G. P. (L.P.) | Kingston (S.A.) | (N.C.P.) | |
| Chipp, Hon. D. L. (L.P.) | Hotham (Vic.) | Howard, Hon. J. W. | Bennelong (N.S.W.) |
| Cohen, B. (A.L.P.) | Robertson (N.S.W.) | (L.P.) | |

MEMBERS OF THE COMMONWEALTH PARLIAMENT 7 JUNE 1976(a)—continued

THE HOUSE OF REPRESENTATIVES—continued

| Member | Division | Member | Division |
|--------------------------------------|------------------------|------------------------------|--------------------|
| Hunt, Hon. R. J. D. | Gwydir (N.S.W.) | Neil, M. J. (L.P.) | St George (N.S.W.) |
| (N.C.P.) | | Newman, Hon. K. E. | Bass (Tas.) |
| Hurford, C. J. (A.L.P.) | Adelaide (S.A.) | (L.P.) | ` ' |
| Hyde, J. M. (L.P.) | Moore (W.A.) | Nicholls, M. H. (A.L.P.) | Bonython (S.A.) |
| Innes, U. E. (A.L.P.) | Melbourne (Vic.) | Nixon, Hon. P. J. | Gippsland (Vic.) |
| Jacobi, R. (A.L.P.) | Hawker (S.A.) | (N.C.P.) | C.ppsia.ic (viv.) |
| James, A. W. (A.L.P.) | Hunter (N.S.W.) | O'Keefe, F. L. (N.C.P.). | Paterson (N.S.W.) |
| Jarman, A. W. (L.P.) | Deakin (Vic.) | Peacock, Hon. A. S. | Kooyong (Vic.) |
| Jenkins, H. A. (A.L.P.) . | Scullin (Vic.) | (L.P.) | reobjoing (vie.) |
| Johnson, L. K. (A.L.P.). | Burke (Vic.) | Porter, J. R. (L.P.) | Barker (S.A.) |
| Johnson, Hon. L. R. | Hughes (N.S.W.) | Richardson, P. A. (L.P.) | Tangney (W.A.) |
| (A.L.P.) | 11461163 (14.5.44.) | Robinson, Hon. E. L. | McPherson (Old) |
| Johnson, P. F. (L.P.) | Brisbane (Old) | | McPherson (Qid) |
| Jones, Hon. C. K. | Newcastle (N.S.W.) | (L.P.) | Comman (NICW) |
| (A.L.P.) | Treweastic (Trib. 17.) | Robinson, Hon. I. L. | Cowper (N.S.W.) |
| Jull, D. F. (L.P.) | Bowman (Qld) | (N.C.P.) | Danis and ALC W |
| Katter, Hon. R. C. | Kennedy (Qld) | Ruddock, P. M. (L.P.) . | Parramatta (N.S.W |
| (N.C.P.) | Reinledy (Qld) | Sainsbury, M. E. (L.P.) | Eden-Monaro |
| Keating, Hon. P. J. | Blaxland (N.S.W.) | | (N.S.W.) |
| - - | Biaxiailu (14.5. W.) | Scholes, G. G. D. | Corio (Vic.) |
| (A.L.P.) Kelly, Hon. C. R. (L.P.) | Waltafald (C.A.) | (A.L.P.) | |
| | Wakefield (S.A.) | Shipton, R. F. (L.P.) | Higgins (Vic.) |
| Killen, Hon. D. J. (L.P.) | Moreton (Qld) | Short, J. R. (L.P.) | Ballaarat (Vic.) |
| King, Hon. R. S. | Wimmera (Vic.) | Simon, B. D. (L.P.) | McMillan (Vic.) |
| (N.C.P.) | D (OLG IV) | Sinclair, Hon. I. McC. | New England |
| Klugman, R. E. (A.L.P.) | Prospect (N.S.W.) | (N.C.P.) | (N.S.W.) |
| Lloyd, B. (N.C.P.) | Murray (Vic.) | Snedden, Rt Hon. B. M. | Bruce (Vic.) |
| Lucock, P. E., C.B.E. | Lyne (N.S.W.) | Q.C. (L.P.) | |
| (N.C.P.) | | Staley, Hon. A. A. (L.P.) | Chisholm (Vic.) |
| Lusher, S. A. (N.C.P.) | Hume (N.S.W.) | Stewart, Hon. F. E. | Lang (N.S.W.) |
| Lynch, Hon. P. R. (L.P.) | Flinders (Vic.) | (A.L.P.) | Dang (11.5.11.) |
| MacKellar, Hon. M. J. R. | Warringah (N.S.W.) | Street, Hon. A. A. (L.P.) | Corangamite (Vic.) |
| (L.P.) | | Sullivan, J. W. (N.C.P.). | Riverina (N.S.W.) |
| Mackenzie, A. J. | Calare (N.S.W.) | | • |
| (N.C.P.) | | Thomson, D. S., M.C. | Leichhardt (Qld) |
| McLean, R. M. (L.P.) | Perth (W.A.) | (N.C.P.) | n.t.(MCM) |
| McLeay, Hon. J. E. | Boothby (S.A.) | Uren, Hon. T. (A.L.P.) | Reid (N.S.W.) |
| (L.P.) | | Viner, Hon. R. I. (L.P.) | Stirling (W.A.) |
| McMahon, J. L. (A.L.P.) | Sydney, (N.S.W.) | Wallis, L. G. (A.L.P.) | Grey (S.A.) |
| McMahon, Rt Hon. W., C.H. (L.P.) | Lowe (N.S.W.) | Wentworth, Hon. W. C. (L.P.) | Mackellar (N.S.W.) |
| Macphee, I. M. (L.P.) | Balaclava (Vic.) | Whitlam, A. P. (A.L.P.) . | Grayndler (N.S.W. |
| McVeigh, D. T. (N.C.P.) | Darling Downs (Qld) | Whitlam, Hon. E. G., | Werriwa (N.S.W.) |
| Martin, V. J. (A.L.P.) | Banks (N.S.W.) | Q.C. (A.L.P.) | , , |
| Martyr, J. R. (L.P.) | Swan (W.A.) | Willis, R. (A.L.P.) | Gellibrand (Vic.) |
| Millar, P. C. (N.C.P.) | Wide Bay (Qld) | Wilson, I. B. C. (L.P.) | Sturt (S.A.) |
| Moore, J. C. (L.P.) | Ryan (Qld) | Yates, W. (L.P.) | Holt (Vic.) |
| | Shortland (N.S.W.) | Young, M. J. (A.L.P.) | Port Adelaide (S.A |
| Morris, P. F. (A.L.P.) | Siloi tianu (iv.s.w.) | Toung, W. J. (A.L.F.) | TOTT Adelate (b.A |

(a) For later changes see Appendix.

Referendums

In accordance with section 128 of the Constitution any proposed law for the alteration of the Constitution, in addition to being passed by an absolute majority of each House of Parliament, must be submitted to a referendum of the electors in each State, and must be approved by a majority of the electors in a majority of the States and also by a majority of all the electors who voted, before it can be presented for Royal Assent. Thirty-two such proposals have so far been submitted to

referendums and the consent of the electors has been received in five cases the first in relation to the election of Senators in 1906, the second and third in respect of State Debts—one in 1910 and the other in 1928, the fourth in respect of Social Services in 1946, and the fifth in respect of Aboriginals in 1967. In addition to referendums for alterations of the Constitution, other Commonwealth referendums have been held—two prior to Federation regarding the proposed Constitution and two regarding military service during the 1914–1918 War. For details of earlier referendums see Year Book No. 52, pages 66–8.

On 17 and 26 September 1973 respectively, two Bills were introduced in the House of Representatives to alter the Constitution; one Bill being designed to grant the Australian Government control over prices, the other to grant similar control over incomes. The proposed laws, after being passed by both Houses of Parliament, were submitted to the electors of the States at referendums held on 8 December 1973. At these referendums the electors voted in all States to reject both proposed laws. For a summary of the results of the voting see Year Book No. 60, page 90.

In November 1973 four Bills were introduced in and passed by the House of Representatives to alter the Constitution. The Constitution Alteration (Simultaneous Elections) Bill was designed to ensure that future Senate elections would be held simultaneously with the House of Representatives elections. The Constitution Alteration (Mode of Altering the Constitution) Bill was designed to facilitate alterations to the Constitution and to allow electors in the Territories, as well as electors in the States, to vote on proposed laws to alter the Constitution. The Constitution Alterations (Democratic Elections) Bill was designed to ensure that members of the House of Representatives and of the State Parliaments would be 'chosen directly and democratically by the People'. The Constitution Alteration (Local Government Bodies) Bill was designed to enable the Commonwealth Government to borrow money for, and to grant financial assistance to, local government bodies.

On 4 December 1973 the Senate referred the first of these proposed laws to its Standing Committee on Constitutional and Legal Affairs; amended the second; and rejected the third and fourth. On 6 March 1974, the four proposed laws were passed a second time by the House of Representatives. On 13 March 1974 the Senate rejected the Constitution Alteration (Simultaneous Elections) and Constitution Alteration (Local Government Bodies) Bills; and, on 14 March 1974, rejected the Constitution Alteration (Democratic Elections) Bill and amended the Constitution Alteration (Mode of Altering the Constitution) Bill. On 21 March 1974 the Prime Minister announced that, acting under section 128 of the Constitution, the Governor-General had accepted the Government's advice to submit these four proposed laws to the electors of the States at referendums to be held on 18 May 1974, simultaneously with the general election. At these referendums electors in all States except New South Wales voted to reject the four proposed laws; electors in New South Wales voted in favour of all four proposed laws. Particulars of the voting at these referendums are shown in Year Book No. 60, page 91.

The Parliaments of the States

This chapter contains summarised information on the Parliaments of each State, the numbers of Houses and members, and salaries payable. For greater detail reference should be made to individual State Year Books.

Membership of State Parliaments. The following table shows the party distribution in each of the various State Parliaments at June 1976.

STATE PARLIAMENTS: MEMBERSHIP, BY PARTY AFFILIATION, JUNE 1976

| Party | N.S.W. | N.S.W. Vic. | | S.A. | W.A. | Tas. |
|--------------------------------------|---------|-------------|-----|------|---------|------|
| | UPPER F | IOUSE | | | - · · · | · |
| Australian Country Party (C.P.) . | . 13 | | •• | | | |
| Australian Labor Party (A.L.P.) . | . 24 | 9 | | 10 | 9 | 2 |
| Independent (Ind.) | . 1 | • • | | | | 17 |
| Liberal Party of Australia (L.P.) . | . 22 | 26 | | 11 | 18 | |
| National Country Party (N.C.P.)(a) . | | • • | | | 3 | |
| National Party of Australia (Victor | ria) | | | | | |
| (N.P.A.) | | 5 | | | | |
| Total | . 60 | 40 | (b) | 21 | 30 | 19 |
| | LOWER I | IOUSE | | | | |
| Australian Country Party (C.P.) . | . 18 | | | 1 | | |
| Australian Labor Party (A.L.P.) | . 50 | 21 | 11 | 23 | 22 | 21 |
| Independent (Ind.) | . 1 | | 1 | 1 | | |
| Independent Labor (Ind. Lab.) | | 1 | | | | |
| Liberal Party of Australia (L.P.) . | . 29 | 52 | 30 | 21 | 23 | 14 |
| National Country Party (N.C.P.)(a) . | | | | | 6 | |
| National Party (N.P.) | | | 39 | | | |
| National Party of Australia (Victor | ia) | | | | | |
| (N.P.A.) | · | 7 | | | | |
| New Liberal Movement (N.L.M.) . | | | | 1 | | |
| North Queensland Party (N.Q.P.) | | | 1 | | | |
| Vacancy | . 1 | | | | | |
| Total | . 99 | 81 | 82 | 47 | 51 | 35 |

⁽a) Formerly the National Alliance Party. (b) Upper House abolished in 1922.

For corresponding particulars for the Commonwealth Parliament, see page 88.

Number and salaries and allowances of members of the legislatures, Commonwealth parliaments, June 1976

COMMONWEALTH PARLIAMENTS: MEMBERS AND ANNUAL SALARIES AND ALLOWANCES, JUNE 1976

| Members in— | Cwlth | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Tota l |
|--------------------------------|------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|
| | | N | UMBER (| ог мемв | ERS | | | |
| Upper House . | 64 | 60 | 40 | (a) | 21 | 30 | 19 | 234 |
| Lower House . | 127 | 99 | 81 | 82 | 47 | 51 | 35 | 522 |
| Total . | 191 | 159 | 121 | 82 | 68 | 81 | 54 | 756 |
| | | | ANNUAL | SALARY | (\$) | | | |
| Upper House . Lower House . | 20,000 20,000 | 9,000 19,660 | 19,500 19,500 | (a) 18,980 | 16,500 16,500 | 18,005 18,005 | 16,582 16,582 | |
| | | ELEC | TORAL A | LLOWAN | CES (\$) | | | |
| Upper House . | (b)4,100 | (c)3,280 | (d)4,180- 5,990 | (a) | 4,000 | (d)4,800- 9,000 | (d)1,824- 4,311 | |
| Lower House . | (b)4,100 | (<i>d</i>)4,750-7,100 | (d)4,180- 5,990 | (d)3,140– 7,670 | (d)2,500- 5,100 | (d)4,200- 8,400 | (d)2,487 5,804 | |

⁽a) Abolished in 1922. (b) Certain additional allowances are also provided for holders of parliamentary offices etc. (c) Referred to as an expense allowance. An additional \$39 per sitting day is payable to members who live outside the metropolitan area. (d) Allowance payable depends on location of electrorate and, for Victoria and Tasmania, size of electrorate. A special expense allowance for members in N.S.W., ranging from \$2,275 to \$2,840, is paid to members representing country electorates.

Outlay on parliamentary government

The table below shows, in broad groups, the expenditure incurred in the operation of the parliamentary system in Australia, comprising the Governor-General and Governors, the Ministries, the Upper and Lower Houses of Parliament, and electoral activities; it does not attempt to cover the expenditure on Commonwealth and State administration generally. Only broad groups are shown, but even these are not entirely comparable because of differences in accounting procedures and in the presentation of accounts. Expenditure under the head of Governor-General or Governor includes salaries of Government House staffs and maintenance of residences, official establishments, grounds, etc., and expenditure on capital works and services.

OUTLAY ON PARLIAMENTARY GOVERNMENT, 1974-75 (\$'000)

| Expenditure group | Cwlth | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|---------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|
| Governor-General or Governor(a) | 952 | 343 | 591 | 477 | 352 | 304 | 348 | 3,368 |
| Ministry(b) | 1,972 | 734 | 709 | 475 | 304 | 339 | 416 | 4,950 |
| Parliament- | | | | | | | | |
| Upper House(c) | 1,581 | 639 | 798 | | 310 | 555 | 310 | 4,193 |
| Lower House (c) | 3,197 | 1,927 | 1,622 | 1,770 | 719 | 927 | 483 | 10,645 |
| Both Houses(d) | 13,112 | 3,555 | 2,323 | 2,165 | 1,797 | 2,007 | 641 | 25,599 |
| Miscellaneous(e) | 8,190 | 689 | 739 | 431 | 206 | 241 | 79 | 10,576 |
| Total, Parliament | 26,081 | 6,809 | 5,482 | 4,367 | 3,033 | 3,729 | 1,512 | 51,013 |
| Electoral(f) | 8,978 | 144 | 269 | 1,012 | 156 | 301 | 159 | 11,019 |
| mittees, etc. | 2,961 | | 143 | 1 | 51 | 191 | 25 | 3,372 |
| Grand Total | 40,944 | 8,031 | 7,194 | 6,332 | 3,895 | 4,865 | 2,461 | 73,722 |

⁽a) Salaries and other expenses, including maintenance of house and grounds. (b) Salaries, travelling and other expenses as ministers. (c) Allowances to members (including ministers' salaries as members), travelling and other expenses. (d) Government contribution to members' superannuation funds, printing, reporting staff, library, etc. (e) Services, furniture, stores, etc. (f) Salaries, cost of elections, etc.

OUTLAY ON PARLIAMENTARY GOVERNMENT

| Year | | Cwlth | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|---------|---|--------|--------|--------|----------|-------|-------|-------|--------|
| | | | | то | TAL | | | | |
| | | | | (\$ | '000) | | | | |
| 1970-71 | | 18,064 | 4,299 | 3,883 | 2,082 | 2,356 | 2,305 | 1,249 | 34,239 |
| 1971–72 | | 18,432 | 4,520 | 3,475 | 2,717 | 2,436 | 2,486 | 1,327 | 35,393 |
| 1972–73 | | 23,515 | 5,310 | 4,490 | 3,182 | 2,677 | 2,516 | 1,316 | 43,006 |
| 1973–74 | | 36,990 | 7,378 | 5,218 | 4,340 | 3,190 | 4,213 | 1,935 | 63,263 |
| 1974–75 | • | 40,944 | 8,031 | 7,194 | 6,332 | 3,895 | 4,865 | 2,461 | 73,722 |
| | | | PER | HEAD O | F POPULA | TION | | | |
| | | | | (| (\$) | | | | |
| 1970–71 | | 1.43 | 0.94 | 1.12 | 1.15 | 2.02 | 2.27 | 3.21 | 2.71 |
| 1971-72 | | 1.43 | 0.97 | 0.98 | 1.47 | 2.06 | 2.38 | 3.38 | 2.74 |
| 1972–73 | | 1.80 | 1.13 | 1.25 | 1.68 | 2.24 | 2.36 | 3.33 | 3.11 |
| 1973–74 | | 2.79 | 1.56 | 1.44 | 2.23 | 2.64 | 3.88 | 4.85 | 4.77 |
| 1974–75 | | 3.04 | 1.69 | 1.96 | 3.19 | 3.17 | 4.37 | 6.09 | 5.47 |

Commonwealth Government Departments

For current detailed information on the Acts administered, the functions and the organisation of the Departments and Agencies of the Commonwealth Government see the Commonwealth Government Directory (latest issue 1977).

Enactments of the Parliaments

In the Commonwealth Parliament all laws are enacted in the name of the Sovereign, the Senate, and the House of Representatives. The subjects with respect to which the Commonwealth Parliament is empowered to make laws are enumerated in the Constitution. In the States other than South Australia and Tasmania, laws are enacted in the name of the Sovereign by and with the consent of the Legislative Council (except in Queensland) and Legislative Assembly. In South Australia and Tasmania laws are enacted in the name of the Governor of the State, with the advice and consent of the Parliament in the case of South Australia, and of the Legislative Council and House of Assembly in the case of Tasmania. Generally, assent to Bills passed by the legislatures is given by the Governor-General or State Governor acting on behalf of, and in the name of, the Sovereign. In certain special cases Bills are reserved for the Royal assent. The Parliaments of the States are empowered generally, subject to the Commonwealth Constitution, to make laws in and for their respective States in all cases whatsoever. Subject to certain limitations they may alter, repeal, or vary their Constitutions. Where a law of a State is inconsistent with a law of the Commonwealth Parliament the latter prevails, and the former is to the extent of the inconsistency invalid.

The course of Commonwealth Parliament legislation

The actual legislation by the Commonwealth Parliament during 1975 is indicated in alphabetical order in *The Acts of the Parliament of the Commonwealth of Australia passed during the year 1975 in the Second Session of the Twenty-ninth Parliament of the Commonwealth, with Appendix, Tables and Index.* A chronological table of Acts passed from 1901 to 1973 showing how they are affected by subsequent legislation or lapse of time is also available; this volume also contains a table of legislation of the Commonwealth Parliament passed from 1901 to 1973 in relation to the several provisions of the Constitution. Reference should be made to these for complete information.

The following figures indicate the variation over the years in the number of enactments of the Commonwealth Parliament since 1901. Seventeen Acts were passed in 1901, 36 in 1914, 38 in 1927, 87 in 1939, 109 in 1952, 156 in 1965, 157 in 1968, 223 in 1973, 166 in 1974 and 121 in 1975.



CHAPTER 4

DEFENCE

DEPARTMENT OF DEFENCE

Central organisation for Defence

Recommendations for an integrated and functional organisation for the Department of Defence were accepted by the Government in December 1974 (see Year Book No. 60, 1974) and legislation to give effect to the re-organisation of the higher management of the Defence Force and the Department of Defence was passed by the Commonwealth Parliament in September 1975. The legislation, which came into effect on 9 February 1976, specifically recognises that responsibility for the general control and administration of the Defence Force rests with the Minister for Defence.

A new statutory appointment, the Chief of Defence Force Staff, was created to exercise command of the Defence Force through the three Service Chiefs of Staff (Navy, Army and Air) who are the professional heads and have responsibility for the management of their respective arms of the Defence Force. The Chief of Defence Force Staff is the principal military adviser to the Minister and together with the Secretary, Department of Defence advises the Minister on matters involving their joint responsibility.

The three Service Boards (Navy, Army and Air) have been dissolved and most of their power retained by the Minister or delegated by him to specific or appropriate military and civilian appointments under the Chief of Defence Force Staff and Secretary, Department of Defence respectively, within the unified Department. Under the reorganisation the three Service Chiefs of Staff, the Chief of Defence Force Staff and the Secretary, Department of Defence all have the right of access to the Minister.

The Secretary, Department of Defence has the powers and functions generally prescribed for such appointments in the Australian Public Service Act, but now qualified by the statutory authority of the Chief of Defence Force Staff and by Ministerial directives to the Secretary, enjoining responsiveness of the Public Service structure to the operational priorities of the Chiefs of Staff. The Secretary is responsible to the Minister for advice on general policy and on the management and utilisation of defence resources.

Role and functions of the Department of Defence

The role of the Department of Defence basically is the development of policy and advice to the Minister for Defence, and the co-ordination and execution of approved policy and the direction of the Defence Force.

The functions of the Department include strategic appreciations, national intelligence assessments and strategic intelligence reports; defence planning, systems analysis and formulating policy on force structure and force deployment; administrative policy and military advice for the Minister for Defence, organisation of collective military advice; planning and control of military operations; defence programming, resources allocation and expenditure control; scientific advice and formulation of defence research and development policy; policy relating to defence industry, facilities and procurement; rationalisation of Service activities and co-ordination of their policies; pay, allowances and conditions of service in the Defence Force and during retirement; establishments, postings and promotions; legislation concerning the Armed Services; public relations; Defence representatives overseas; defence electronic data processing; civil defence and administration of the Natural Disasters Organisation.

Higher defence machinery

Council of Defence

A Council of Defence has been established as provided for in the Defence Act. Its function is to consider and discuss matters referred to it by the Minister relating to the control and administration of the Defence Force and the respective Arms of the Defence Force. The Council is chaired by the Minister for Defence and membership includes the Minister assisting the Minister for Defence, the Chiefs of Staff and the Secretary of the Department of Defence.

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The Committee structure

The Committee structure within the Department of Defence provides for reconciliation of the respective Services' operational requirements, professional management of the military career and sound management of resources and general policy. The committees accommodate the expertise of both military and civilian members and the material interests of the three Arms of the Defence Force. The following are the principal committees and their functions.

The *Defence Committee* advises the Minister for Defence on those general defence policies whose formulation calls for presentation of co-ordinated information and advice about the strategic, military, foreign affairs and economic aspects of defence.

The Defence Force Development Committee reviews the Five Year Defence Program and the annual Defence Estimates, as prepared by the staff, and conveys collective or individual comments to the Minister. The Committee exchanges views and reviews progress in the development of the Defence Program; provides the Minister and Defence Department staff with collective or individual opinion on the major weapon systems proposed in the Five Year Defence Program; and provides a forum for discussions of defence policy implications of military operations.

The Chiefs of Staff Committee is responsible to the Minister for Defence, through the Chief of Defence Force Staff for providing collective professional advice on military operations and on the military implications of defence policy and activities. It endorses military plans; provides collective advice concerning, and control and administration of, special forces of a multi-national nature, the responsibility for which is assigned to the Commonwealth Government, subject to such control conforming to the principles and procedures of the established machinery of Government and administration. It recommends the allocation of resources to designated commanders engaged in joint operations, and endorses the military aspects of policies concerning joint service units and installations.

The Defence (Administration) Committee reviews the Defence program and controls the Defence vote.

The *Defence Science Board* considers in the context of Defence objectives major issues concerning the policy for defence science including its relationship to other national interests.

The Defence (Industrial) Committee considers matters concerning the capacity of Australian industry to contribute to the defence requirements of the country; makes recommendations when appropriate for the retention of existing capacity or the development of new capacity in the light of Department of Defence assessments of requirements; provides guidelines to allow industry to prepare for meeting the requirements of the Defence Force during periods of threat or of war at varying levels of intensity and duration; gives financial and management advice to the Department of Defence and the Services on questions referred to it; advises on stockholding of strategic materials; considers questions relating to the Defence Cataloguing System, and equipment standardisation; oversights the Industrial Mobilisation Course; and reports annually to the Minister for Defence on its activities.

The Defence (Conditions of Service) Committee considers major issues concerning rates of pay and financial conditions of service of personnel of the Defence Force as a basis for recommendations to the Minister for Defence.

The Joint Planning Committee advises the Defence Committee and/or the Chief of Defence Force Staff and/or Chiefs of Staff Committee on operational aspects of defence planning; appreciations and plans for combined operations; and co-ordination of joint training.

Basis of current defence policy

The primary aim of Australian defence policy is to ensure the security of Australia and its Territories.

Defence policy is to maintain a substantial level of defence forces, to promote self reliance and to maintain relations in the defence field with allies and regional associates. Australia participates in the ANZUS alliance, and the Five Power arrangements.

In a period assessed as having low-threat probability, the basic concept for the force structure is a core force of sufficient skills and capabilities in existence, to allow timely expansion should there be unfavourable developments in the strategic situation.

Defence expenditure

DEFENCE EXPENDITURE BY DEPARTMENTS (\$'000)

| | | De | efence | | | | | Industry and | | |
|---------------------|--------------|-----|--------------|---------|---------|---------|-----------|-----------------|----------|-----------|
| | | Ce | entral(a)(b) | Navy | Army | Air | Total | Commerce (a) | Other(a) | Total |
| Actual expe | nditu | re— | | | | | | | | |
| 1970-71 | | | 88,822 | 247,924 | 421,037 | 302,657 | 1,060,440 | 58,446 | 13,756 | 1.132.642 |
| 1971-72 | | | 98,039 | 270,243 | 465,792 | 303,239 | 1,137,313 | 63,431 | 4,805 | 1,205,549 |
| 1972-73 | | | 110,278 | 293,094 | 445,061 | 352,185 | 1,200,618 | 69,952 | 3,304 | 1,273,874 |
| 1973-74 | | | 159,887 | 329,011 | 472,669 | 358,274 | 1,319,841 | 79,596 | 7,596 | 1,407,033 |
| 1974-75 | | | 311,883 | 404,410 | 550,299 | 409,357 | 1,675,949 | 109,492 | 5,207 | 1,790,648 |
| 1975–76 | | | 298,265 | 439,483 | 609,636 | 505,173 | 1,852,557 | 72,292 | 18,408 | 1,943,257 |
| Estimated expenditu | r e — | | | | | | | | | |
| 1976-7 | 7. | | 350,745 | 539,808 | 686,478 | 577,951 | 2,154,982 | 76,933 | 23,627 | 2,255,542 |

⁽a) Figures have been compiled on the basis of Departments as they are now organised (see page 109). (b) Includes Defence Forces Retirement and Death Benefits and Defence Science and Technology.

Equipment

An amount of \$102.3 million was spent on equipment of a capital nature in 1974–75. An amount of \$181.6 million is expected to be spent in 1975–76.

The major equipment items received by the Services in 1974-75 included 8 Sea King ASW helicopters, 1 slave dock for submarine refits, 10 light observation helicopters, 3 prototype fire support vehicles, 10 basic trainer aircraft (CT4) and 4 surveillance radars.

Major new equipment items planned for delivery in 1975-76 include 27 basic trainers (CT4), 1 Nomad aircraft, 18 light observation helicopters, 11 Turana pilotless target aircraft, 2 Sea King ASW helicopters, 1 surveillance radar and 4 medium girder bridges.

Defence Force manpower

| Strength at June | | | | | P | ermanent forces | Reserves(a) | Total |
|--|-----------|---|---|----------|------|--------------------|-------------|--------|
| | | | | 1 | NAVY | | | |
| 1966 | | | | | | 14,633 | 2,131 | 16,764 |
| 1967 | | | | | | 15,764 | 2,365 | 18,129 |
| 1968 | • | | | • | | 16,294 | 2,480 | 18,774 |
| 1969 | | | | | • | 16,758 | 2,661 | 19,419 |
| 1970 | | | | | | 17,089 | 2,383 | 19,472 |
| 1971 | | | | | | 16,997 | 2,303 | 19,300 |
| 1972 | | | | | | 16,890 | 2,120 | 19,010 |
| 1973 | | | | | | 17,215 | 1,935 | 19,150 |
| 1974 | | | | | | 16,141 | 1,593 | 17,734 |
| 1975 | | | | | | 16,094 | 1,302 | 17,396 |
| 1976 (estimated) | • | • | • | • | • | 16,115 | 1,030 | 17,145 |
| —————————————————————————————————————— | · · · · · | | | | ARMY | | | |
| | | | | | | (b) | | |
| 1966 | | | | | | 32,702 | 33,526 | 66,228 |
| 1967 | | | | | | 41,392 | 36,322 | 77,714 |
| 1968 | | | | | | 42,840 | 37,523 | 80,363 |
| 1969 | | | | | | 43,915 | 35,884 | 79,799 |
| 1970 | Ī | • | • | • | • | 44,513 | 33,316 | 77,829 |
| 1971 | • | • | • | • | • | 43,769 | 30,943 | 74,712 |
| 1972 | • | • | • | • | • | 41,273 | 28,009 | 69,282 |
| 1973 | • | • | • | • | • | 33,990 | 23,119 | 57,109 |
| 1974 | • | • | • | • | • | 30,235 | 20,000 | 50,235 |
| 1975 | • | • | • | • | • | 31,514 | 20,374 | 51,888 |
| 1976 (estimated) | • | • | • | • | • | 31,500 | 21,150 | 52,650 |
| | <u>.</u> | · | _ | <u>.</u> | • | 31,300 | 21,130 | 32,030 |
| | | | | | AIR | | | |
| 1966 | | • | | | , | 19,358 | 1,035 | 20,393 |
| 1967 | | | | | • | 20,130 | 1,362 | 21,492 |
| 1968 | | | | | | 21,564 | 1,304 | 22,868 |
| 1969 | | | | | | 22,712 | 1,369 | 24,081 |
| 1970 | | | | | | 22,642 | 1,509 | 24,151 |
| 1971 | | | | | | 22,539 | 1,488 | 24,027 |
| 1972 | | | | | | 22,720 | 1,399 | 24,119 |
| 1973 | | | | | | 22,717 | 1,191 | 23,908 |
| 1974 | | | | | | 21,119 | 748 | 21,867 |
| 1975 | | | | | | 21,546 | 554 | 22,100 |
| 1976 (estimated) | | | | | | 21,300 | 490 | 21,790 |
| (/ | - | | • | | • | ,-,- | | |

⁽a) Refers to Reserves with training obligations. Figures exclude those members who are serving full time in the Permanent Defence Force. (b) Figures include National Servicemen in the period 1966-72 when there was compulsory military service for those selected.

Reserve Forces

The Reserve Forces of the Navy, Army and Air Force are available to supplement the Permanent Defence Force.

Each Reserve Force consists of several reserve elements with different call out provisions and training obligations. The most important elements involve a training obligation and are as follows.

Emergency Reserves (Naval Emergency Reserve Forces, Regular Army Emergency Reserve, Air Force Emergency Reserve) which may be called out by the Governor-General for continuous full-time service as the need arises.

Citizen Forces (Royal Australian Naval Reserve, Active Citizen Military Forces, Active Citizen Air Force) which may be called out by proclamation for continuous full-time service in a time of defence emergency or war.

Defence science and technology

The activities of the new Defence Science and Technology Organisation (D.S.T.O.) which were previously conducted in agencies administered by the Service Departments and the former Department of Manufacturing Industry are now conducted within the Department of Defence. From I July 1974, by agreement between the Minister for Defence and the Minister for Manufacturing Industry, the Department of Defence exercised management and technical control of Research and Development (R & D) agencies of the former Department of Manufacturing Industry. On 1 July 1975 these agencies came fully under policy, administrative and technical control of the Chief Defence Scientist.

The functions of the D.S.T.O. are: defence science policy; scientific advice on all defence matters; analysis of weapons systems and equipment; relationship of Australian R & D to international programs; conduct of R & D; trials and evaluation of proposed and existing equipment.

The D.S.T.O. consists of the following three main functional areas of responsibility: Military Studies and Operational Analysis Division; Policy and Program Planning Division; Australian Defence Scientific Service.

Military Studies and Operational Analysis Division

The Division formulates the program of analytical studies for tactical, operational and force structure problems throughout the D.S.T.O.

Policy and Program Planning Division

This Division defines principal objectives of the D.S.T.O. and advises on scientific and technical aspects of Defence policy including arrangements for international co-operation in scientific and technical activities.

Australian Defence Scientific Service

The Service prepares, co-ordinates and reviews the D.S.T.O. program. It provides overall management of the scientific and financial resources of the Defence laboratories and trials units. Proposals to the Chief Defence Scientist for the choice, development and use of weapons and equipment by the Australian Defence Force are initiated and assessed. Under co-operative arrangements with governments outside Australia, it provides the scientific, technological and administrative effort required for the development and operation of facilities specified in the arrangements and, by agreement, plans, conducts and analyses these operations.

Within the Australian Defence Scientific Service, the Services Laboratories and Trials Division is responsible for the planning and execution of trials of service equipment. It maintains a source of engineering design, development and modification for Defence Force equipment and a source of technical advice associated with the planning, engineering and evaluation of new equipment and with the management of in-service equipment. Advice is provided to the Defence Force and the Department on the general engineering and trials standards appropriate to Service equipment.

Major establishments and laboratories operating under the control of the Services Laboratories and Trials Division include:

The Engineering Development Establishment in Victoria which provides for the Defence Force and the Department a source of development engineering; equipment design and related advice.

The Royal Australian Navy Research Laboratory in New South Wales which undertakes research into underwater acoustics, oceanography, mine warfare and mine countermeasures.

The Armed Forces Food Science Establishment in Tasmania which is responsible for the preparation of special food specifications with particular emphasis on calorific content and storage life.

The Royal Australian Navy Trials and Assessing Unit in New South Wales which conducts ship and equipment tests and trials, investigations, inspections and evaluations and carries out assessments of weapon practices as required.

The *Tropical Trials Establishment* in Queensland which provides trials facilities and technical and administrative support for user, engineering and evaluation trials of stores and explosive material in a tropical environment.

The Joint Tropical Research Unit in Queensland, which is jointly sponsored by the United Kingdom and Australia, participates in a program of work involving the study of the behaviour and degradation of materials in tropical environments.

Other important establishments or laboratories under the control of the Australian Defence Scientific Service include:

The Weapons Research Establishment in South Australia which conducts research and development in areas of significance to Defence, including work on Australian-initiated defence projects.

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It constructs, operates and develops the Woomera Range including the instrumentation and engineering facilities necessary to the Joint British/Australian Guided Weapons program. Weapons Research Establishment has four wings, namely the Applied Physics Wing, the Engineering Wing, the Weapons Research and Development Wing, and the Trials Wing.

The Materials Research Laboratories in Victoria, South Australia and New South Wales which provide R & D support to all branches of the Defence Force by establishing and maintaining scientific and technical expertise in particular fields relevant to the supply and operation of defence material including materials aspects of armaments and defence equipment, explosives and ammunition, instrumentation and standards of measurement and protection of personnel and equipment. It applies this expertise to the solution of Service and supply problems ranging from scientific investigation of current difficulties to development of new equipment. Scientific developments in the fields of physics, chemistry and metallurgy are studied which are judged to have potential defence application in the future.

The Aeronautical Research Laboratories (A.R.L.) in Victoria which undertake research and development in areas of significance to defence and on specific defence projects particularly in the field of aeronautics. It acts as consultant and makes investigations for the Defence Force, Government departments and authorities and industries engaged on defence work. Civil work may be undertaken where the special equipment or expertise at A.R.L. is required.

Defence representation overseas

Defence Attache representation is maintained in Afghanistan, Britain, Burma, Canada, France, India, Indonesia, Iran, Japan, Korea, Malaysia, Nepal, New Zealand, Pakistan, Papua New Guinea, the Philippines, Singapore, Thailand and the United States of America.

Defence co-operation with South-East Asian and South Pacific countries

In support of Australia's Defence policy, the Government conducts defence co-operation activities with countries in the region—particularly South-East Asian and South Pacific countries. These activities include joint projects, training in Australia, loan of personnel and combined military exercises.

In 1975-76, which was the first year Australian activities in Papua New Guinea were separately identified in the Australian Defence appropriation, assistance to P.N.G. was valued at \$29.8 million. This included the loan of Australian servicemen to P.N.G., training for P.N.G. servicemen in Australia, survey and engineering projects in P.N.G. and the provision of certain items of equipment.

Expenditure on the Defence Co-operation Program with Indonesia to June 1976 amounted to \$19.7 million. Major current projects include the survey and mapping of Irian Jaya, a field communications project, assistance with Sabre aircraft previously transferred to Indonesia by Australia, research and development projects, and a maritime patrol project.

Annual expenditure on Defence co-operation with Malaysia and Singapore is now running at approximately \$4 million and \$0.8 million respectively. Major continuing projects in Malaysia include an Armed Forces manufacturing workshop, a parachute and diving school, and electronic target ranges. Assistance to Singapore is mainly in the area of personnel training particularly qualified flying instructors.

Training assistance is provided to Thailand and the Philippines. Assistance to South Pacific countries is mainly in the form of training in Australia. Limited numbers of personnel are provided on loan.

Training in Service training establishments in Australia is an important part of defence cooperation activities. Over 600 overseas personnel are trained in Australia each year by the three Services.

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Defence Force activities overseas

The main areas in which Australian Defence Force elements have been deployed overseas during the year are Malaysia/Singapore and Papua New Guinea. Units have also visited Indonesia, New Zealand, Hawaii, Britain and Canada for exercises and training.

In support of the Five Power arrangements Australian Defence Force elements in the Malaysia/Singapore area include:

Navy—One destroyer or destroyer escort present in the area at all times, and one submarine present for part of the year; and shore support units.

Army—An Australian Army infantry company is maintained at Butterworth on a basis of three month detachments from Australia in a training role.

Air Force—Two squadrons of Mirage fighter aircraft are maintained at Butterworth in Malaysia, with a detachment at Tengah in Singapore.

In Papua New Guinea, elements of all three arms of the Defence Force play a major role in the development of the Papua New Guinea Defence Force.

The Commonwealth Government maintains an on-going program of defence co-operation with other neighbouring countries and provides transport support for United Nations activities in selected Asian areas.

Royal Australian Navy

The R.A.N. maintains and exercises a modern, well equipped and highly trained maritime force. The structure of this force is based primarily on the provision, at sea, of a balanced naval task group, consisting of surface warships, naval aviation, and the R.A.N.'s submarine force.

Development of the Royal Australian Navy

Information relating to naval defence systems prior to 1901 appears in Year Book No. 2 page 1094. Further information relating to the development of Australian naval policy appears in Year Books No. 3 and 12, pages 1060 and 1012 respectively; an account relating to the building of the Australian Navy, its cost, the compact with the Imperial Government, and other details, appears in Year Book No. 15, pages 921-3; and the growth and the activities of the R.A.N. during the 1939-45 war are described in Year Book No. 36, pages 1023-7.

Higher organisation

Under the Defence Act the Chief of Naval Staff has command of the R.A.N., subject to the overall command of the Defence Force by the Chief of Defence Force Staff. Principal staff officers to the Chief of Naval Staff are the Deputy Chief of the Naval Staff, and the Chiefs of Personnel, Technical Services, and Materiel. Other senior officers of the R.A.N. include the Flag Officer Commanding the Australian Fleet and the Flag Officer Commanding East Australia area.

Ships of the Royal Australian Navy

The Fleet, February 1976: Melbourne-aircraft carrier; Supply-oiler; Stalwart-destroyer tender; Perth, Hobart, Brisbane-guided missile destroyers; Vendetta, Vampire-destroyers; Yarra, Parramatta, Stuart, Derwent, Swan, Torrens-destroyer escorts; Duchess-training ship (destroyer); Curlew, Snipe-coastal minehunters; Ibis-coastal minesweeper; Moresby, Flinders-Surveying ships; Diamantina, Kimbla-oceanographic research ships; Oxely, Otway, Onslow, Ovens-submarines; Attack, Acute, Advance, Adroit, Ardent, Assail, Aware, Barbette, Barricade, Bayonet, Bombard, Buccaneer-patrol boats; Banks, Bass-general purpose vessels; Brunei, Labuan, Tarakan, Wewak, Betano, Balikpapan-heavy landing craft.

In operational reserve, February 1976: Hawk, Gull, Teal-minesweepers.

Fleet Air Arm

The Fleet Air Arm maintains three front line squadrons for embarkation in the operational carrier H.M.A.S. *Melbourne*. These squadrons currently consist of Skyhawk A4G fighter ground-attack aircraft, Tracker S2E anti-submarine aircraft and Sea King Mk 50 anti-submarine helicopters. Three training and support squadrons are based at the R.A.N. Air Station, Nowra, New South Wales. Other aircraft operated by the Navy are the Bell 206B helicopter in the survey ship HMAS *Moresby*, Iroquois UHIB and Wessex 31B helicopters (utility tasks and search and rescue), HS-748, Macchi trainer and Jindivik pilotless target aircraft.

Ship construction and repairs

There are two naval dockyards, one at Garden Island, New South Wales, and one at Williamstown, Victoria. The Dockyard at Cockatoo Island, which is operated by Vickers Cockatoo Dockyard Pty Ltd by agreement with the Commonwealth Government, carries out considerable naval repair work and has the capability to construct warships.

Current construction projects include two Oberon Class submarines in the United Kingdom, two guided missile frigates in the United States of America and an oceanographic vessel being built at Williamstown. Modernisation of three River Class destroyer escorts, *Parramatta*, *Stuart* and *Derwent* and the half-life refit of a fourth, *Yarra*, are currently being planned.

Extensive improvements to the weapon control systems of the guided missile destroyers *Hobart*, *Perth* and *Brisbane* are being progressed at Garden Island Dockyard.

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Personnel

At 29 February 1976, the actual strength borne for full-time duty was 16,172 comprising 2,123 officers and 14,049 sailors, male and female. These figures include 64 officers, 19 sailors of the Citizen Naval Force, 2 officers of the Royal Australian Naval Emergency Reserve, 2 officers and 4 sailors on loan to the Indonesian Navy and 31 officers and 57 sailors serving with the Papua New Guinea Defence Force.

Women's Services

The present Women's Royal Australian Naval Service was reconstituted in January 1951. The numbers serving in shore establishments in February 1976 were 29 W.R.A.N.S. officers and 785 W.R.A.N.S. The Royal Australian Naval Nursing Service was inaugurated in November 1964, and its strength in February was 23 officers.

Naval Reserves

The Australian Naval Reserves consist of the R.A.N. Emergency Reserve, R.A.N. Emergency List, Royal Australian Fleet Reserve, Royal Australian Naval Reserve (R.A.N.R.), and Womens Royal Australian Naval Reserve. The authorised establishment of the combined Reserve force is 12,000. At 29 February 1976 there were 1,395 officers and 3,965 sailors in the Naval Reserves of which 300 officers and 775 sailors had training obligations. These figures exclude 66 officers and 19 sailors carrying out full-time service with the R.A.N.

The R.A.N.R. is the training reserve of the Naval Reserves. Members carry out weekly training and thirteen days continuous training annually; sailors engage for periods of three years. Other reserves do not normally carry out part-time training, but members may volunteer for periods of annual training, and for periods of full-time service with the R.A.N.

Training and entry

On entry, General List officers are trained at the Royal Australian Naval College H.M.A.S. Creswell at Jervis Bay, New South Wales. The College was established to provide trained officers for the R.A.N. Junior entry to the College is at the age of fifteen to seventeen years and senior entry at a maximum age of twenty years. In February 1976 there were 172 cadet midshipmen under training. On completion of initial training, officers go to the Fleet for sea training, followed by advanced training either ashore in Australia, at universities or technical colleges, or at Royal Navy training establishments in the United Kingdom.

- H.M.A.S. Cerberus at Westernport, Victoria, is the main training establishment for adult sailors in the permanent naval forces, while several advanced training schools are established in New South Wales. The period of initial engagement for sailors varies from six years for tradesmen to nine or twelve years, and on completion sailors may re-engage for shorter periods up to the age of fifty-five.
- H.M.A.S. Nirimba at Quakers Hill, New South Wales, is the naval school for apprentices. It provides secondary education, as well as technical training in trades, to boys aged fifteen to seventeen and a half years. The school was established in 1956 to meet the R.A.N.'s increased demand for highly skilled tradesmen. In January 1976 there were 477 naval apprentices under training.
- H.M.A.S. Leeuwin at Fremantle, Western Australia, is the junior recruit training establishment. Entrants must be aged between fifteen and a half and sixteen and a half years. Training lasts one year and instruction is mainly academic, the remaining time being devoted to basic naval and disciplinary training. On completion of the course sailors are posted to technical and specialist courses before proceeding to sea. In January 1976 there were 728 junior recruits undergoing training.

On completion of initial training sailors join the Fleet for sea training before returning to the various training schools at H.M.A.S. Cerberus, H.M.A.S. Penguin and H.M.A.S. Watson at Sydney and R.A.N. Air Station at Nowra, New South Wales. Sailors who are selected for the submarine service receive initial submarine training in the United Kingdom and a number of technical courses for certain sailors are conducted in the United States of America.

To meet increasing requirements for officers, direct entries are accepted into the R.A.N. Short service commissions of seven years are granted on completion of training as seamen, supply or aircrew officers, to suitable applicants who have completed their secondary schooling and who are over seventeen years of age and under twenty-four years of age. Other direct entries may be approved outside these age limits from persons with appropriate qualifications and experience.

Opportunities exist for university undergraduates studying medicine, dentistry and engineering to enter the R.A.N., and on successful completion of their studies to commence short or full-time service in the Navy. Fully qualified doctors, dentists, engineers, instructors and legal officers may also enter the R.A.N. directly if they are of the appropriate age.

Australian Army

The Australian Army maintains a potential ability and readiness to conduct operations on land for the defence of Australia, and, in co-operation with the other arms of the Australian Defence Force shares a responsibility to deter aggression, and to ensure the nation's security and to preserve its national interests.

Development of the Australian Army

A detailed account of the Australian Defence Force prior to Federation appears in Year Book No. 2, pages 1075-81 See also Year Book No. 12, page 999. For particulars of the phases which cover the period from Federation up to the re-establishment of the Military Board and the organisation of Commands after the 1939-45 War—see Year Book No. 46 and earlier issues.

Higher organisation

Command of the Army is the responsibility of the Chief of the General Staff, subject to the overall Command of the Defence Force by the Chief of Defence Force Staff and he has for his principal staff officers, the Deputy Chief of the General Staff, the Chief of Operations, the Chief of Personnel, the Chief of Materiel, the Chief of the Army Reserve and the Inspector General of the Army Reserve.

The Army is organised into three functional Commands as follows:

Field Force Command which commands all field force units of the Australian Army, both Regular and Citizen Military Forces.

Logistics Command which commands all logistic elements of the Army.

Training Command which is responsible for all individual training and commands all Army training and schools with the exception of the Royal Military College, Duntroon.

Military Districts as listed below provide administrative support for the three functional Commands:

1st Military District—the State of Queensland.

2nd Military District—the State of New South Wales, less those parts included in 3rd and 4th Military District.

3rd Military District—the State of Victoria and part of Southern New South Wales.

4th Military District—the State of South Australia, plus a portion of south-western New South Wales.

5th Military District—the State of Western Australia.

6th Military District—the State of Tasmania.

7th Military District—the Northern Territory.

The Military District headquarters also handle those matters in which both Commonwealth and State Governments are involved.

Personnel strength

The effective strength at 25 February 1976 was: Australian Regular Army, 31,551 (including 30,029 males and 1,522 females (Women's Services)); Citizen Military Forces, 19,752.

Women's Services

In July 1950 approval was given for the enlistment of women into the Australian Regular Army on a limited scale. Enlistment commenced into the Royal Australian Army Nursing Service in November 1950 and into the Australian Women's Army Corps early in 1951. In February 1951 the Royal Australian Army Nursing Service became a Corps and was designated the Royal Australian Army Nursing Corps (R.A.A.N.C.). During June 1951 the Australian Women's Army Corps was redesignated the Women's Royal Australian Army Corps (W.R.A.A.C.). The Women's Services in the Australian Regular Army and Citizen Military Forces now comprise these two corps.

Training

Staff College. Until 1938, the training of staff officers was carried out in the various Military Districts. In some cases officers were selected to attend courses abroad. In 1938 an Australian Command and Staff School, located in the original Officers' Mess at Victoria Barracks, Sydney was established. Between 1939 and 1945 the training of staff officers was carried out under varying conditions by different schools in accordance with the changing needs of the war. Early in 1946 the Staff School (Australia) was established at Seymour, Victoria, and redesignated the Staff College in conformity with other British Commonwealth training establishments for training officers for command and staff appointments. The College was later moved to Queenscliff, Victoria, where it is presently situated. The course is held annually and is of twelve months duration. The normal intake is eighty students. The course is designed to train selected officers for appointments in all branches of the staff in peace and war and to prepare them to assume, after experience, command and higher staff appointments.

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Students from Canada, Fiji, India, Indonesia, Malaysia, New Zealand, Pakistan, Papua New Guinea, the Philippines, Thailand, United Kingdom and United States of America are included in the course. Vacancies on each course are reserved also for officers who may be nominated by the R.A.N., the R.A.A.F. and the Australian Public Service.

In order to ensure common standards in tactical doctrine, and staff and command training, liaison is maintained with other Australian and overseas Staff Colleges, and to this end there is also a reciprocal exchange of instructors between the United Kingdom, the United States of America, and Australia. An instructor is also provided by New Zealand.

Royal Military College. The Royal Military College was established in 1911 at Duntroon in the Australian Capital Territory to provide trained officers for the Army. The conditions of entry are laid down in the Royal Military College Regulations. The course is four years of military and academic studies. The first three years are primarily academic and the fourth year military. Following affiliation with the University of New South Wales a faculty of Military Studies was introduced in 1968. Cadets who meet the requirements for admission to the Faculty may take a course leading to the award of a degree in Military Studies by the University of New South Wales in one of the following: Arts, Applied Science or Engineering. On graduation, cadets are appointed lieutenants in the Australian Regular Army. The College also trains New Zealand cadets for commissions in the New Zealand Permanent Forces. Since 1967 one Singaporean and three Thai cadets have graduated and presently (1976) one Malaysian, three Singaporean and three Thai cadets are attending the College.

Officer Cadet School. The Officer Cadet School was established in 1951 at Portsea, Victoria, to increase the rate at which junior regimental officers could be produced for the Australian Army. Serving members of the Regular Army, the Citizen Military Forces and civilians between the ages of eighteen and a half and twenty-two and a half are eligible for entrance. A special entry, provides for candidates up to twenty-four and a half years. The course lasts for forty-four weeks, and on graduation cadets are appointed second lieutenants in the Australian Regular Army. Graduates normally proceed to further training at the Army School of the Arm or Service to which they have been allotted before being posted to regimental duties. The Officer Cadet School also trains officers on occasions for Kenya, Malaysia, New Zealand, Thailand, the Phillipines, Singapore, Fiji, Brunei, and the Papua New Guinea Defence Force

Women's Royal Australian Army Corps School. The W.R.A.A.C. School, established in 1952 at Mildura, Victoria, moved to Mosman, New South Wales, in 1958. It has three wings, one whose primary task is the training of officer cadets for the W.R.A.A.C., one for the training of non-commissioned officers at all levels and for other special courses, and one which is a basic training wing) The officer cadets are selected from eligible applicants, who may be serving members between nineteen and a half and thirty-two years of age, or civilians between nineteen and a half and thirty years of age. The course is of twenty-two weeks duration and on graduation cadets are appointed lieutenants in the Women's Royal Australian Army Corps.

Army Apprentices School. The Army Apprentices School was opened in 1948 at Balcombe, Victoria, to train youths as skilled tradesmen for the Regular Army and to provide them with a background for an Army career with prospects of promotion for the graduates. The course is open to youths between the ages of fifteen and seventeen and provides training in a number of highly skilled trades. Most apprentices attend two years of intensive theoretical and practical work at the Apprentices School followed by two years on-the-job training in an appropriate Army workshop or technical unit under the supervision of an Apprentice Master. Radio tradesmen train for three years at the Apprentice School before undertaking one year on-the-job training. All apprentices take the Victorian Apprenticeship Commission final grade public examination, which ensures that they will be accepted as qualified tradesmen in civilian life when they leave the Army. In addition to the trade and military training, the Apprentices School provides the facility for apprentices to attain an educational standard of Victorian Technical Leaving.

Other Schools. Army schools have been established for the major arms and services to train officers and other ranks in the up-to-date techniques of their own arm or service, to qualify them for promotion and to produce trained instructors. Courses at Army schools are conducted for members of both the Regular Army and Citizen Military Forces. The following Army schools have been established: Land Warfare Centre, Armoured Centre, School of Artillery, School of Military Engineering, Transportation Centre, School of Military Survey, School of Signals, Infantry Centre, Army Aviation Centre, Army Intelligence Centre, Royal Australian Corps of Transport Centre, Royal Australian Army Medical Corps, School of Army Health, Royal Australian Army Ordnance Corps, Royal Australian Electrical and Mechanical Engineers Training Centre, Royal Australian Army Provost School, School of Music, Air Support Unit (Army Component), and Air Movement Training and Development Unit (Army Component).

Royal Australian Air Force

The function of the Royal Australian Air Force is the conduct of operations in the air for the defence of Australia and Australian interests.

Development of the Royal Australian Air Force

For a short note about the development of the Royal Australian Air Force, see Year Book No. 58, page 91.

Higher organisation

The Chief of the Air Staff (C.A.S.) has command of the Royal Australian Air Force subject to the overall command of the Defence Force by the Chief of Defence Force Staff. The C.A.S. is assisted in his decisions by an advisory committee the membership of which comprises the Chief of the Air Staff (Chairman), Deputy Chief of Air Staff, Chief of Air Force Personnel, Chief of Air Force Materiel, Chief of Air Force Technical Services, Director General Supply—Air Force, and other senior officers or specialists as may be directed by the C.A.S. The Committee has no statutory authority nor executive function and the C.A.S. is not obliged to accept its recommendation.

The Chief of Air Staff administers and controls R.A.A.F. units in Australia through two commands: Operational Command and Support Command. Operational units based at Butterworth, Malaysia, work within the broad directives issued by the C.A.S. They contribute toward the development of the Malaysian and Singapore defence capability and provide forces for the Integrated Air Defence System.

Operational Command is responsible to the C.A.S. for the command of operational units and the conduct of their operations within Australia. Support Command is responsible to the C.A.S. for training of personnel, and the supply and maintenance of service equipment.

Structural organisation

The R.A.A.F. has five operational elements, the units of which, actively and directly participate in air operations. These elements are the Strike/Reconnaissance Force, Tactical Fighter Force, Air Transport Force, Tactical Air Support Force and the Maritime Force. The role of the strike/reconnaissance force is primarily counter air operations. The tactical fighter force is responsible for air superiority, air defence and air interdiction operations, and also provides close air support to sea and land forces. The air transport force is used for routine logistic and domestic transport, and in addition has a tactical transport role. Tactical transport and close air support aircraft normally operate within a tactical air support force which is usually controlled by a joint (Air Force/Army) headquarters. Maritime forces are primarily employed in ocean surveillance, anti-submarine warfare and search and rescue. Major maritime operations are controlled by a joint (Air Force/Navy) headquarters.

The support component consists of those units and personnel which support units of the operational component. The elements are Maintenance Supply, Air Training, Ground Training, Administrative and the Citizen Air Force.

Aircraft

The R.A.A.F.'s strike/reconnaissance force is currently equipped with F111C and Canberra aircraft. The air defence and ground attack squadrons are equipped with the Mirage 111-0. Transport aircraft currently in use are Hercules C130A and C130E, Caribou, Dakota, Mystere 20, HS748, and BAC1-11. Three squadrons operate Iroquois and Chinook helicopters and the two maritime squadrons operate Neptune SP2H and Orion P3-B aircraft. Aircraft used for basic training are the CT4 Airtrainer, Macchi and HS748.

Personnel (including Reserve and Women's Services)

At 29 February 1976 the Permanent Air Force establishment was 22,796 and the Citizen Air Force 600; the actual strength was Permanent Air Force 21,368 and Citizen Air Force 452, while the strength of the General Reserve was 6,212. The Permanent Air Force figures include the Women's Royal Australian Air Force which has an establishment of 931 and actual strength of 1,014, the R.A.A.F. Nursing Service which is established for 99 and actually has 86, and 6 female doctors, dentists and education officers.

Training, entry

Staff College. The R.A.A.F. Staff College, located at Fairbairn, A.C.T., provides staff training and higher Service education to selected officers normally of the rank of Squadron Leader. The course, which is of a nominal year's duration is designed to broaden the students' professional background and to prepare them for command and staff appointments of greater responsibility. A two year correspondence course covering communication skills, military studies, international affairs and management is a compulsory prerequisite for entry to this course.

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R.A.A.F. Academy. R.A.A.F. College was formed at Point Cook, Victoria in 1947 to provide a tertiary level professional education for future permanent officers. In 1961 the College was reconstituted as R.A.A.F. Academy to become an affiliated college of the University of Melbourne. Cadets are selected principally for the General Duties Branch and undertake a four year course at the Academy, leading to a Bachelor of Science degree after three years and the award of a Graduate Diploma in Military Aviation on completion of the fourth year. Some cadets selected for the Engineer Branch complete first year at R.A.A.F. Academy and then proceed to the University of Sydney to complete the remaining three years of the Bachelor of Aeronautical Engineering Course.

Diploma Cadet Squadron. The Diploma Cadet scheme provides training for cadets selected to undertake diploma studies in aeronautical, mechanical, electrical and communication engineering at the Royal Melbourne Institute of Technology and other Institutes of Technology in the Melbourne area. Cadets selected for Equipment Branch duties were originally located with the engineering cadets in Melbourne and undertook their studies at the Royal Melbourne Institute of Technology. This function has now been transferred to No. 7 Stores Depot at Toowoomba, Queensland where the cadets now undertake the three year course leading to the Bachelor of Business Studies degree at the Darling Downs Institute of Advanced Education.

Undergraduate Scheme. Students undertaking courses in medicine, dentistry, engineering (all branches) and science as undergraduates at any Australian University may be sponsored in advanced years under the Undergraduate Scheme. On completion, the students are commissioned in the specialist branches of the R.A.A.F.

Officer Training. With the exception of those officers commissioned from R.A.A.F. Academy or the flying training schools, all officers entering directly (with or without a tertiary qualification), commissioned airmen and airwomen, engineering and equipment cadets and undergraduate students undergo the Officers' Initial Training Course at the Officers' Training School, Point Cook, Victoria.

Basic Aircrew Training. R.A.A.F. pilot, navigator and air electronic officer trainees are selected primarily direct from civilian life although some places are filled by serving officers (including graduates of R.A.A.F. Academy) and airmen. Direct entry and serving airmen trainees are commissioned on graduation, having completed their officer training concurrently with their flying training.

The initial phase of basic pilot training for R.A.A.F., R.A.N. and Army trainees is conducted by No. 1 Flying Training School at R.A.A.F. Base Point Cook, Victoria. The final phase for R.A.A.F. and R.A.N. students is conducted by No. 2 Flying Training School at R.A.A.F. Base Pearce, Western Australia whilst Army students complete their training with the Army at Oakey, Queensland.

Básic navigator, air electronic officer and R.A.N. observer training is conducted by the R.A.A.F. School of Air Navigation at R.A.A.F. Base East Sale, Victoria. The School of Air Navigation also conducts post-graduate advanced navigation training for R.A.A.F. and R.A.N. pilots, navigators and observers.

Central Flying School conducts basic flying instructor training for the R.A.A.F., R.A.N. and Army at R.A.A.F. Base East Sale. In addition it conducts basic air traffic control training for all three armed services and, in conjunction with No. 1 Flying Training School, basic pilot training for the Papua New Guinea Defence Force.

Basic loadmaster, flight engineer and crewman training for transport, maritime and helicopter aircraft is conducted by training flights within the appropriate operational squadron. Students for this training are selected from volunteer serving airmen.

Aircrew Operational Conversion Training. With the exception of Mirage pilot conversion training which is conducted by No. 2 Operational Conversion Unit at R.A.A.F. Base Williamtown, New South Wales, all other aircrew undergo conversion training to operational aircraft types with a training flight within the appropriate operational squadron.

Ground Training. Training for non-aircrew personnel is generally provided in two stages: Basic and Advanced. Basic training, which includes apprentice training, brings the airman to a level of proficiency in his particular trade such that he can be recognised and employed as a qualified tradesman on an operating unit. Advanced training covers higher level training courses including supervision and management techniques, and specialist courses on particular aircraft or telecommunications systems.

Major Training Schools. The major ground training schools in the R.A.A.F. are the School of Radio at Laverton, Victoria, and the School of Technical Training at Wagga, New South Wales. The School of Radio averages a trainee population of about 400 while the School of Technical Training has over 800 members under training at any time. Apprentice training for radio tradesmen

is provided at Laverton, while apprentice training for other engineering trades is provided at Wagga. In addition, both schools provide training for adult-entry airmen and airwomen. Although training for airwomen is generally confined to the non-technical areas, many courses are now common to both airmen and airwomen.

Civil Recognition. Because the training of R.A.A.F. apprentices is conducted in more than one State, the R.A.A.F. has elected to obtain civil recognition of apprentice-trained tradesmen on a national basis through the provision of the Tradesmen's Rights Regulation Act, rather than be directly associated with the State apprenticeship authority. Recognition of adult-trained tradesmen is similarly obtained under the Tradesmen's Rights Regulation Act.

Civil Schooling Scheme. To meet the needs of the R.A.A.F. in a variety of disciplines in which it is uneconomical for the Service to set up its own training schemes, serving officers and airmen are sponsored at universities and advanced colleges/institutes to undertake full or part time tertiary level study mainly in the fields of engineering, science, economics, business administration, manage ment, accountancy and education. Members studying under this scheme are located on and administered from bases throughout the country.

DEFENCE PRODUCTION

The functions previously performed by the former Department of Supply (see Year Book No. 60, page 105) were during 1974 and 1975 re-distributed between the Departments of Defence (research and development functions, defence production in industry, guided weapons and electronic support facility), Administrative Services (Stores and Transport, and purchasing functions), and a new Department of Manufacturing Industry which absorbed also the functions of the Department of Secondary Industry. In December 1975 the Department of Manufacturing Industry was re-named the Department of Industry and Commerce, absorbing inter alia the Shipbuilding Division of the Department of Transport.

Defence production functions of Department of Industry and Commerce

The defence production functions of the Department of Industry and Commerce are carried out under the Supply and Development Act 1939 and include the following:

Planning, establishment, operation and management of facilities producing aircraft, guided missiles, small arms, ammunition, explosives, marine engines, clothing and other defence goods. Acquisition, maintenance, and disposal of strategic materials, investigation and development of Australian sources of supply of defence material in conjunction with Department of Defence.

For the performance of the above functions the Department has two production divisions: Munitions Supply; and Aircraft, Guided Weapons and Electronics Supply; supported by Production Planning Branch, Marketing Branch and elements of Central Office and Regional technical and administrative staffs.

Munitions supply

The Munitions Supply Division is responsible for the production of munitions required by the Defence Force. Production is carried out in Government factories, which may place orders with private industry for components and materials. The factories currently in operation and their main products or services are as follows:

Ammunition Factory, Footscray, Victoria (fuses, primers, cartridge cases and small arms ammunition); Clothing Factory, Victoria (uniforms and clothing); Engine Works, Victoria (building and servicing of marine diesel engines); Albion Explosives Factory, Deer Park, Victoria (high explosives, propellants, chemicals); Explosives Factory, Maribyrnong, Victoria (propellants, explosives, chemicals, ammunition, rocket motors, paints, cements, and allied products); Mulwala Explosives Factory, New South Wales (propellants and chemicals); Munitions Filling Factory, St Marys, New South Wales (ammunition and explosive munitions); Ordnance Factory, Bendigo, Victoria (heavy guns, mountings, large gears); Ordnance Factory, Maribyrnong, Victoria (guns, projectiles, heavy forgings, rocket motor components); and Small Arms Factory, Lithgow, New South Wales (rifles, machine guns, mortar shells, calibre shells and fuse components).

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Aircraft, guided weapons and electronics supply

Aircraft. Production both in Government factories and in industry of aircraft and aero-engines and of other aircraft components is the responsibility of this Division. Planning of capacity and negotiation (in conjunction with the government purchasing authority) of contractual arrangements concerning aircraft modification, repair and overhaul, and for the supply of spare parts and airborne equipment for the Services, are also functions of the Division.

The following factories are operated by the Division: Government Aircraft Factory at Fishermen's Bend, Victoria together with its Final Assembly Workshops and Test Airfield at Avalon, Victoria and the Aircraft Engineering Workshop at Pooraka, South Australia.

The Government Aircraft Factories (G.A.F.) have designed and developed a twin turbo-propellor utility aircraft known as Nomad. Production of 70 aircraft was approved by the Government. Sales have been made to Commonwealth Government Departments (including Defence (Army)) and overseas countries. G.A.F. also designed and is producing the Jindivik radio-controlled target aircraft which has been supplied to Britain, Sweden and America as well as to the Department of Defence. Turana, a small jet-engine powered, pilotless target aircraft in production for the Royal Australian Navy is of G.A.F. design and is produced in the Factories.

The Commonwealth Aircraft Corporation Ltd (C.A.C.) Fishermen's Bend, Victoria, was the prime contractor for the Australian production for the R.A.A.F. and R.A.N. of the Italian Macchi jet trainer and for the production of the British Viper engine that powers this aircraft. The C.A.C. is the major Australian contractor for the Bell light observation helicopter which is being produced for the Australian Army. Hawker de Havilland Australia Pty Ltd at Bankstown and Lidcombe New South Wales was the major sub-contractor for the Macchi. Macchi trainer production for the R.A.A.F. and R.A.N. was completed in 1972.

Guided Weapons. The production of the Ikara anti-submarine system is continuing at the Government Aircraft Factory at Fishermen's Bend. Excluding the torpedo, production of the system, covering broadly the torpedo carrying flight vehicle and its motor, launcher and magazine handling equipment and guidance and tactical control equipment is a combined effort by departmental establishments and industry, directed and co-ordinated by the Department. Ikara has been fitted to 9 R.A.N. ships and variants have also been purchased by the British and Brazilian Navies.

Planning and marketing

The Production Planning Branch is responsible for co-ordination, in conjunction with the production divisions, of the provision of defence production capability in the Government factories and aircraft industry to meet the Defence Force requirements. Within defence policy guidelines the Branch provides and administers reserve stocks of materials and reserve pools of plant, equipment and other requirements needed for rapid expansion in the event of war.

The Marketing Branch undertakes sales of Departmental products and services; administers Department of Industry and Commerce and Department of Defence patents and licensing arrangements; co-ordinates and monitors Australian Industry Participation programs arising from major Government purchases from overseas; co-ordinates with Department of Defence the development of co-operation between Australia and New Zealand in the defence supply field.

Finance

The total expenditure on Defence-orientated Department of Industry and Commerce activities in 1974-75 was \$250,750,000. This was made up of \$74,648,000 from Parliamentary Appropriations, \$170,093,000 from Trust Fund Accounts and \$6,009,000 from revenue.

Personnel

At 31 December 1975, 9,311 personnel were employed on specifically defence orientated functions (excluding general financial and administrative management support) as follows: administration 767; aircraft production 2,481; munitions production 5,189; miscellaneous production 846; cadets and trainees 20; overseas staff 8.

PURCHASING

The Office of the Purchasing Commission, a Division of the Department of Administrative Services, arranges for the purchase within Australia of supplies and services for the Australian Navy, Army and Air Force and for Department of Industry and Commerce factories and establishments. Purchase of supplies from overseas sources is arranged and progressed by the Department of Defence. Upon request, the Office also arranges contracts on behalf of other Commonwealth Government departments and authorities. The Office also arranges disposal—by means of public tender, auction or otherwise—of stores no longer required for Commonwealth Government purposes.

Purchases by the Office of the Purchasing Commission in 1974-75 totalled \$185 million. Total realisation from disposals in 1974-75 was \$17 million.

CHAPTER 5

REPATRIATION

On 5 October 1976 the name of the Department of Repatriation was changed to the Department of Veterans' Affairs.

The Repatriation Commission, established under the Repatriation Act 1920, consists of three full-time members. It is responsible for the administration of the Repatriation Act and associated legislation, all matters of policy, and the general administration and overall supervision of the Department of Repatriation. The Chairman of the Commission is also the Secretary of the Department of Repatriation, which provides the administrative machinery through which the Commission operates. The central office is in Canberra and there is a branch office, under the control of a Deputy Commissioner, in each State.

The principal functions of the Department are: the payment of disability and dependants' pensions (previously called war pensions) and service pensions and allowances to eligible veterans and their dependants; the provision of medical treatment for veterans for injuries and illnesses caused or aggravated by their service; the provision of medical treatment in certain circumstances for veterans who are suffering from injuries and illnesses not caused or aggravated by service; the provision of medical treatment for widows and dependants of deceased veterans whose deaths are service-related; and a wide range of other benefits for eligible persons.

Benefits are provided in respect of service, not only in the 1914–18 and 1939–45 Wars, but also in the South African War 1899–1902, the Korea and Malaya operations, with the British Commonwealth Far East Strategic Reserve and the Special Overseas Forces serving in prescribed areas, and in the Regular Defence Forces in certain circumstances.

For information on war service land settlement see Chapter 22, Rural Industry; for statistics relating to defence service homes see Chapter 9, Housing and Building.

For detailed information about repatriation pensions, allowances, benefits and services, reference should be made to the annual reports of the Repatriation Commission.

REPATRIATION: TOTAL EXPENDITURE(a) (\$'000)

| Class | | 1970–71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|----------------------------------|---------|---------|---------|---------|---------|---------|
| Pensions, allowances and other b | enefits | 240,539 | 266,107 | 303,183 | 362,196 | 477,608 |
| Medical treatment | | 74,627 | 87,328 | 97,297 | 120,446 | 162,340 |
| Administration | | 16,700 | 18,913 | 20,791 | 24,807 | 32,143 |
| Works, rent and maintenance. | | 7,981 | 5,301 | 6,870 | 8,903 | 14,792 |
| Total expenditure | • | 339,847 | 377,649 | 428,141 | 516,352 | 686,883 |

⁽a) Includes expenditure by Departments other than Repatriation as follows: 1970-71, \$5,852,357; 1971-72, \$4,982,764; 1972-73, \$6,645,558; 1973-74, \$8,369,015; 1974-75, \$14,088,376.

Disability and dependants' pensions

The first provision for the payment of disability pensions to veterans and pensions to their dependants was made by the Commonwealth Parliament in the War Pensions Act 1914. This Act was repealed in 1920 by the Australian Soldiers' Repatriation Act 1920 (amended from 31 December 1950 to the Repatriation Act). Amendments to the Act in 1943 considerably widened the eligibility provisions, to the benefit mainly of members of the Citizen Military Forces who had not served outside Australia during the 1939-45 War.

For a brief description of eligibility for disability and dependants' pensions; the conditions for payment of the various rates and allowances; and of operation of the Appeals Tribunals, see pages 91–93 of Year Book 55, Chapter 5, Repatriation.

Pensions and allowances

Disability and dependants' pensions and associated allowances are not subject to a means test, except in the case of dependants other than wives, widows, widowed mothers and children. Pensions and allowances payable and the main weekly rates from 6 May 1976 are as follows.

Pensions for service-related incapacity—Special Rate (totally and permanently incapacitated (T. & P.I.) or blinded), \$78.85; an equivalent rate is payable for temporary total incapacity or to a veteran pensioned for pulmonary tuberculosis who is, as a result, unfit for employment; Intermediate Rate. (Capable of part-time work only), \$54.30; veterans pensioned for pulmonary tuberculosis and able only to work part-time receive the same rate; General Rate (capable of full-time employment), 100 per cent basic rate, \$29.80. Dependants—Pensions are also payable to the dependants of incapacitated veterans: Wife, \$4.05; eligible children, \$1.38; (Maximum rates).

Pensions in respect of death—War and defence widows (where death was related to war or defence service or, at the date of death, the veteran was receiving a disability pension at the Special Rate, or its equivalent in respect of pulmonary tuberculosis, or as a double amputee) \$41.25; eligible widows may also receive a domestic allowance, \$12; children (under 16 years of age) or student children over 16 years of age undergoing full-time education, \$10.45; double orphans (both parents deceased), \$20.90.

Allowances—various allowances are provided to supplement disability and dependants' pensions and these vary according to the type and severity of disablement and the special needs of the pensioner. The main allowances and maximum weekly rates payable are: Attendants allowance (for the severely disabled), maximum \$24.90; Clothing allowances (where clothing is subject to damage from surgical aids, etc.), from 55 cents to \$1.05; Domestic allowance (payable to eligible war and defence widows), \$12. Other allowances payable include: Sustenance allowance; Fares, subsistence and attendance allowance: Recreation transport allowance; Funeral benefits, etc.

Summary of disability and dependants' pensions

The following tables provide a summary of disability and dependants' pensions (excluding miscellaneous pensions) for the 1914-18 War, the 1939-45 War (including pensions payable under the *Interim Forces Benefits Act* 1947), the Korea and Malaya operations, the Far East Strategic Reserve, and the Special Overseas Service and the Regular Forces. Statistics relating to miscellaneous disability and dependants' pensions are shown later in this section.

DISABILITY AND DEPENDANTS' PENSIONS: SUMMARY, AUSTRALIA, 1974-75

| | 1914–18 War | 1939–45 War(a) d | | | | Serving Members | Total |
|--------|--------------------------|--|--|--|---|---|--|
| No. | 269 | 8,683 | 371 | 114 | 1,573 | 283 | 11,293 |
| No. | 15 | 2,806 | 98 | 18 | 46 | | 2,983 |
| No. | 170 | | 53 | 5 | 322 | 555 | 3,187 |
| | | , | 794 | 110 | 461 | 15 | 19,110 |
| No. | 4,959 | 7,523 | 52 | 6 | 34 | | 12,574 |
| No. | 58,548 | 424,913 | 11,173 | 2,125 | 16,725 | 340 | (c)513,824 |
| \$'000 | 77,593 | 246,598 | 3,189 | 431 | 3,041 | 79 | 330,931 |
| | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 314,058 |
| | No. No. No. No. | No. 269 No. 15 No. 170 No. 79 No. 4,959 No. 58,548 \$'000 77,593 | War War(a) of war(a) No. 269 8,683 No. 15 2,806 No. 170 2,802 No. 79 17,651 No. 4,959 7,523 No. 58,548 424,913 \$'000 77,593 246,598 | And 1914-18 1939-45 Malaya War War(a) operations | No. 269 No. 15 No. 79 17,651 No. 4,959 No. 4,959 8,683 No. 77,593 371 No. 114 No. 15 No. 170 No. 79 | No. 269 8,683 371 114 1,573 No. 15 2,806 98 18 46 No. 170 2,802 53 5 322 No. 79 17,651 794 110 461 No. 4,959 7,523 52 6 34 No. 58,548 424,913 11,173 2,125 16,725 \$'000 77,593 246,598 3,189 431 3,041 | No. 269 8,683 371 114 1,573 283 No. 15 2,806 98 18 46 No. 170 2,802 53 5 322 555 No. 4,959 7,523 52 6 34 No. 58,548 424,913 11,173 2,125 16,725 340 \$'000 77,593 246,598 3,189 431 3,041 79 |

⁽a) Includes Interim Forces. (b) Number of veterans who had their claims for all their disabilities disallowed. (c) At 30 June 1975 includes 12,494 student children over 16 years of age.

DISABILITY AND DEPENDANTS' PENSIONS: SUMMARY, AUSTRALIA

| | | 1970–71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|----------------------------|---|---------|---------|---------|---------|---------|
| New claims granted . | | 16,437 | 13,041 | 17,849 | 12,672 | 11,293 |
| Restorations | • | 569 | 240 | 2,254 | 2,356 | 2,983 |
| Total additions . | | 17,006 | 13,281 | 20,103 | 15,028 | 14,276 |
| Pensions cancelled (gross) | | 20,158 | 17,826 | 15,619 | 18,149 | 19,110 |
| Deaths of pensioners . | | 11,990 | 12,124 | 11,674 | 11,642 | 12,574 |
| Total reductions . | • | 32,148 | 29,950 | 27,293 | 29,791 | 31,684 |

Classes of disability and dependants' pensions

The following tables provide an analysis of the total number of new claims granted, pensions in force, and class of pension for 1974–75.

DISABILITY AND DEPENDANTS' PENSIONS: NEW CLAIMS GRANTED, AUSTRALIA, 1974-75

| Class | 1914–18 War | 1939–45 War(a) d | | Far East Strategic Reserve | | Serving | Total |
|------------------------------|----------------|---------------------|-----|-------------------------------------|-------|---------|--------|
| Veterans | 42 | 1,884 | 59 | 18 | 216 | 104 | 2,323 |
| Wives and widows of veterans | 102 | 2,585 | 65 | 22 | 352 | 73 | 3,199 |
| Children | 9 | 4,121 | 245 | 73 | 999 | 106 | 5,553 |
| Other dependants | 116 | 93 | 2 | 1 | 6 | | 218 |
| Total | 269 | 8,683 | 371 | 114 | 1,573 | 283 | 11,293 |

(a) Includes Interim Forces.

DISABILITY AND DEPENDANTS' PENSIONS IN FORCE: AUSTRALIA, 30 JUNE 1975

| Class | | | | | 1914–18 War | 1939–45 War(a) | Korea and Mulaya operations | Far East Strategic Reserve | | Serving Members | Total(b) |
|-------------|-------|--------|--------|----|----------------|-------------------|--------------------------------------|-------------------------------------|--------|--------------------|----------|
| Veterans | | | | | 15,507 | 176,441 | 3,479 | 609 | 5,700 | 132 | 201,868 |
| Wives . | • | : | • | ÷. | 22,046 | 158,887 | 2,811 | 509 | 4.259 | 83 | 188,595 |
| Children | : | • | | · | 192 | 53,860 | 4,510 | 938 | 6,333 | 113 | 65,946 |
| War widows | | | | | 20,533 | 29,269 | 172 | 32 | 123 | 6 | 50,135 |
| Children of | decea | ased v | eterar | s | 21 | 2,087 | 102 | 26 | 230 | 6 | 2,472 |
| Orphans | | | | | 3 | 112 | 6 | | 1 | | 122 |
| Parents . | | | | | 19 | 3,643 | 84 | 9 | 77 | | 3,832 |
| Others . | | • | | • | 227 | 614 | 9 | 2 | 2 | • • | 854 |
| Total | | | • | | 58,548 | 424,913 | 11,173 | 2,125 | 16,725 | 340 | 513,824 |

(a) Includes Interim Forces. (b) Includes 12,494 student children over 16 years of age.

DISABILITY PENSIONS FOR INCAPACITATED VETERANS IN FORCE; BY CLASS OF PENSION AUSTRALIA, 30 JUNE 1975

| Class | 1914–18 War | 1939-45 War(a) | | Far East Strategic Reserve | | | Total |
|---|----------------|-------------------|-------|-------------------------------------|-------|-----|---------|
| Special Rate (T. & P. I.) or | | | | | | | |
| equivalent | 4,231 | 13,794 | 140 | 7 | 37 | 3 | 18,212 |
| Intermediate Rate | 129 | 1,724 | 18 | 3 | 5 | | 1,879 |
| General Rate—from 10 per cent to 100 per cent assessed | | ŕ | | | | | |
| disability(b) $\hat{\cdot}$ | 11,147 | 160,923 | 3,321 | 599 | 5,658 | 129 | 181,777 |
| Total | 15,507 | 176,441 | 3,479 | 609 | 5,700 | 132 | 201,868 |

⁽a) Includes Interim Forces. (b) Excludes 80 veterans who also receive benefits under items 1-6 of Schedule 5 and are included above under Special Rate (T. & P.I.) or equivalent.

Number of disability and dependants' pensions and annual liability, States, etc.

The following table shows the number of pensions in force and annual liability at 30 June 1975, according to place of payment.

DISABILITY AND DEPENDANTS' PENSIONS: NUMBER OF PENSIONS AND ANNUAL LIABILITY, 30 JUNE 1975

| | Number of disa 1975(a) | bility and depend | lants' pensions in fo | rce at 30 June | |
|--------------------|-------------------------------|--------------------------------------|---------------------------------------|----------------|--|
| Place of payment | Incapacitated veterans | Dependants of incapacitated veterans | Dependants of deceased veterans | Total | Annual pension liability at 30 June(b) (\$'000) |
| New South Wales(c) | 72,751 | 88,662 | 21,205 | 182,618 | 122,137 |
| Victoria | 52,063 | 67,196 | 15,837 | 135,096 | 87,875 |
| Queensland . | 32,541 | 42,419 | 7,975 | 82,935 | 53,119 |
| South Australia(d) | 18,682 | 23,545 | 4,866 | 47,093 | 27,614 |
| Western Australia | 16,737 | 20,958 | 4,026 | 41,721 | 23,197 |
| Tasmania . | 8,219 | 11,231 | 2,013 | 21,463 | 14,520 |
| Overseas . | 875 | 1,326 | 697 | 2,898 | 2,469 |
| Total . | 201,868 | 255,337 | 56,619 | 513,824 | 330,931 |

⁽a) Includes Interim Forces 1939-45 War. (b) Includes domestic allowance payable to widows. (c) Includes Australian Capital Territory. (d) Includes Northern Territory.

Summary of disability and dependants' pensions, 1970-71 to 1974-75

The following table shows the number of pensions granted, claims rejected, pensions in force and the annual liability for pensions in each of the years ended 30 June 1971 to 1975.

DISABILITY AND DEPENDANTS' PENSIONS: SUMMARY, AUSTRALIA

Number of disability and dependants' pensions in force at 30 June(a)

| Year | | Pensions granted | Claims disallowed (b) | Incapaci- tated veterans | Dependants of incapaci- tated veterans | Dependants of deceased veterans | Total | Annual pension liability at 30 June(c) (\$'000) |
|---------|--|---------------------|-----------------------------|--------------------------------|---|--|---------|---|
| 1970-71 | | 16,437 | 5,110 | 218,355 | 291,828 | 59,356 | 569,539 | 185,974 |
| 1971-72 | | 13,041 | 4,957 | 215,483 | 278,392 | 58,949 | 552,824 | 196,897 |
| 1972-73 | | 17,849 | 3,853 | 211,356 | 276,043 | 58,269 | 545,668 | 227,351 |
| 1973-74 | | 12,688 | 3,680 | 206,865 | 266,918 | 57,491 | 531,274 | 272,094 |
| 1974-75 | | 11,302 | 3,187 | 201,868 | 255,337 | 56,619 | 513,824 | 330,931 |

⁽a) Includes Interim Forces 1939-45 War. (b) The number of claimants who had the claims for all their disabilities disallowed. (c) Includes domestic allowance payable to widows.

The following table shows, for the years 1970-71 to 1974-75, the amounts paid in pensions and the places where they were paid.

| DISABILITY | AND | DEPENDANTS' | PENSIONS: | AMOUNT PAID(a) |
|------------|-----|-------------|-----------|----------------|
| | | (\$'00 | 0) | |

| Place of payment | 1970-71 | 1971-72 | 1972~73 | 1973-74 | 1974-75 |
|----------------------|---------|---------|---------|---------|---------|
| New South Wales(b) . | 68,992 | 76,791 | 81,599 | 91,874 | 115,502 |
| Victoria | 52,546 | 57,357 | 60,739 | 67,329 | 83,673 |
| Oueensland | 30,813 | 34,183 | 36,821 | 41,174 | 50,685 |
| South Australia(c) . | 15,722 | 17,270 | 18,405 | 20,962 | 26,525 |
| Western Australia . | 13,114 | 14,384 | 15,428 | 17,338 | 21,812 |
| Tasmania | 8,226 | 9,089 | 9,851 | 11,176 | 13,698 |
| Overseas | 1,595 | 1,573 | 1.646 | 1,832 | 2,162 |
| Total . , | 191,008 | 210,647 | 224,489 | 251,685 | 314,058 |
| | | | | | |

⁽a) Includes domestic allowances paid to widows. (c) Includes Northern Territory.

Miscellaneous disability and dependants' pensions

The Commission is also responsible for the payment of pensions and allowances to beneficiaries under the *Seamen's War Pensions and Allowances Act* 1940 and Cabinet decisions granting eligibility to persons who were attached to the armed forces during war-time.

The following table shows the number and class of pensions and the annual liability at 30 June 1975, and the table thereafter shows the amounts paid during the years 1970-71 to 1974-75 and the place of payment.

MISCELLANEOUS DISABILITY AND DEPENDANTS' PENSIONS: NUMBER OF PENSIONS AND ANNUAL LIABILITY, AUSTRALIA, 30 JUNE 1975

| | | Number of p | ensions in forc | e at 30 June 197 | 5 | Annual |
|----------------------|------|-------------|---------------------------|---------------------------------------|-------|---|
| Class | | Veterans(a) | Dependants of veterans | Dependants of deceased veterans | Total | pension liability at 30 June(b) (\$'000) |
| Act of grace | | 112 | 130 | 53 | 295 | 246 |
| Seamen's war pension | | 64 | 70 | 52 | 186 | 164 |
| New Guinea civilians | | 3 | | 59 | 62 | 150 |
| Total | | 179 | 200 | 164 | 543 | 560 |

⁽a) 'Veterans' in this context is a person in respect of whose war-time experience a pension is paid. (b) Includes domestic allowances payable to widows.

MISCELLANEOUS DISABILITY AND DEPENDANTS' PENSIONS(a) (\$'000)

| Place of payment | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--------------------|-----|---------|---------|---------|---------|---------|
| New South Wales(b) | · . | 179 | 214 | 216 | 212 | 286 |
| Victoria | | 90 | 107 | 124 | 130 | 164 |
| Oueensland . | | 50 | 62 | 72 | 71 | 108 |
| South Australia(c) | | 32 | 36 | 46 | 47 | 58 |
| Western Australia | | 26 | 29 | 34 | 25 | 33 |
| Tasmania | | 4 | 5 | 5 | 6 | 9 |
| Overseas | • | 1 | 1 | 1 | 1 | 1 |
| Total . | | 382 | 454 | 498 | 492 | 659 |

⁽a) Includes domestic allowance payable to widows. (c) Includes Northern Territory.

⁽b) Includes Australian Capital Territory.

⁽b) Includes Australian Capital Territory.

Service pensions

The Repatriation Act 1920 provides for a service pension to be paid (subject to a means test on income and property, where the person is neither blind nor at least 70 years of age), to the following persons:

male veterans who suffer from pulmonary tuberculosis or who served in a theatre of war (or in a designated *Operational* or *Special Overseas Service* area) and have attained the age of sixty years or are permanently unemployable;

female veterans who suffer from tuberculosis, or who served in a theatre of war, or served abroad or embarked for service abroad and have attained the age of fifty-five years, or are permanently unemployable;

veterans of the South African War 1899-1902 who were members of a naval or military force or contingent raised in Australia for active service in that war;

veterans of other British Commonwealth Forces who served outside the country of enlistment or within that country if a campaign medal has been awarded in respect of such service. Ten years residence in Australia is a necessary qualification.

Rates of pension

Maximum service pension rates and allowances are the same as those paid to Age and Invalid pensioners under the Social Services Act. The means test provisions relating to payments are similar.

For information on conditions relating to the various rates and allowances and the operation of the means test, see Chapter 13, Welfare Services.

From 6 May 1976, the maximum weekly rates are as follows:

Standard Rate, \$41.25, Married Rate, \$34.25; Guardian's Allowance, \$4 (\$6 if caring for a child under 6 years or an invalid child requiring full-time care); Supplementary assistance, \$5 (or \$2.50 payable to each of a married couple); Additional pension for eligible children, \$7.50 for each child.

A veteran in receipt of a service pension is entitled, with certain exceptions, to free medical benefits for disabilities not service-related. These benefits include general practitioner service, specialist service where necessary, full pharmaceutical benefits, surgical aids and appliances (including spectacles), dental treatment, and treatment in Repatriation General Hospitals.

SERVICE PENSIONS, SUMMARY, AUSTRALIA, 1974-75

| | | South frican War | 1914–18 War | 1939–45 War | Korea- Malaya operations | Special Overseas Service | Miscel- laneous (a) | Total |
|---|-------------|------------------------|----------------|----------------|--------------------------------|--------------------------------|---------------------------|---------|
| New claims granted | | | 944 | 22,063 | 109 | 9 | 48 | 23,173 |
| Restorations | | | 44 | 367 | 1 | | 2 | 414 |
| Cancellations (gross) | | | 73 5 | 3,179 | 16 | 4 | 6 | 3,940 |
| Deaths | | 6 | 3,107 | 3,318 | 9 | 3 | 4 | 6,447 |
| Pensions in force at 30 J Annual liability at 30 J | | 40 | 28,892 | 92,259 | 390 | 15 | 130 | 121,726 |
| Zimiuai naomi, at so i | 000 | 57 | 43,765 | 136,751 | 581 | 20 | 190 | 181,364 |
| Amount paid in pension 1974-75 | ing '000 | n.a. | п.a. | n.a. | n.a. | n.a. | n.a. | 155,207 |

(a) Act of grace pensions.

SERVICE PENSIONS: SUMMARY, AUSTRALIA

| | | | | 1970-71 | 1971-72 | 1972-73(a) | 1973–74 | 1974-75 |
|---------------------------------|---|----------|---|----------------|----------------|-----------------|----------------|----------------|
| New claims granted Restorations | | | : | 10,321 680 | 10,349 794 | 24,888 1,384 | 23,229 641 | 23,173 414 |
| Total additions | | | | 11,001 | 11,143 | 26,272 | 23,870 | 23,587 |
| Cancellations (gross) Deaths | : | <i>:</i> | | 3,378 5,276 | 5,098 5,135 | 2,538 5,238 | 5,793 5,692 | 3,940 6,447 |
| Total reductions | | | | 8,654 | 10,233 | 7,776 | 11,485 | 10,387 |

⁽a) The increased number of new claims granted and restorations in 1972-73 were partly due to easing of the means test and to an ageing population of ex-service personnel.

Class of service pensions

The following tables give an analysis of the total number of new claims granted and pensions in force for 1974-75.

SERVICE PENSIONS: NEW CLAIMS GRANTED, AUSTRALIA 1974-75

| Class | | | | South African War | 1914–18 War | 1939-45 War | Korea- Malaya operations | Special Overseas Service | Miscel- laneous | Total |
|-----------------------|----|------|----|-------------------------|----------------|----------------|--------------------------------|--------------------------------|--------------------|--------|
| Veterans Wives and | wi | dows | of | | 636 | 12,851 | 75 | 5 | 29 | 13,596 |
| veterans | | | | | 308 | 9,211 | 34 | 4 | 19 | 9,576 |
| Children | | | • | • • | | i | • • | • • | | 1 |
| Total | | • | | | 944 | 22,063 | 109 | 9 | 48 | 23,173 |

SERVICE PENSIONS: NUMBER IN FORCE, 30 JUNE 1975

| State | .—— | South African War | 1914–18 War | 1939–45 War | Korea- Malaya operations | Special Overseas Service | Miscel- laneous | Total |
|----------------------|-----|-------------------------|----------------|----------------|--------------------------------|--------------------------------|--------------------|---------|
| New South Wales(a) | | 11 | 9,130 | 29,489 | 143 | 7 | 43 | 38,823 |
| Victoria | | 13 | 8,438 | 23,013 | 71 | 4 | 36 | 31,575 |
| Oucensland | | 5 | 4,457 | 17,480 | 87 | 3 | 24 | 22,056 |
| South Australia(b) . | | 4 | 3,277 | 8,674 | 20 | 1 | 17 | 11.994 |
| Western Australia . | | 4 | 2,499 | 9,256 | 47 | | 8 | 11,815 |
| Tasmania | | 3 | 1,088 | 4,265 | 17 | | 2 | 5,370 |
| Overseas | | | 3 | 82 | 5 | | | 93 |
| Total | • | 40 | 28,892 | 92,259 | 390 | 15 | 130 | 121,726 |

⁽a) Includes Australian Capital Territory.

Number, by class, of service pensions and amount paid

The following tables show the number of each class of service pension in force, the annual liability and the amounts paid for the years 1970-71 to 1974-75.

SERVICE PENSIONS: NUMBER OF EACH CLASS OF PENSION AND ANNUAL LIABILITY AUSTRALIA

| | Number of Veterans w | _ | ions at 30 Jun | Dependant | s(a) of veteroveteran is— | ans | | 3 76,808 43,334 9 77,713 51,432 11 96,125 82,011 0 108,505 119,181 | |
|---|--|--|--|---|--|---------------------------------------|-----------------------------------|---|------------------------------------|
| Year | Aged veterans | Perma- nently un- employable | Suffering from pulmonary tuberculosis | An Aged veteran | Perma- nently un- employable | | Miscel- laneous | Total | pension liability at 30 June |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 . 1974-75 . | 38,666 39,657 47,430 56,069 62,443 | 18,122 17,668 19,121 19,182 19,292 | 1,201 1,203 1,333 1,416 1,425 | 1,017 1,186 9,488 15,512 22,115 | 16,729 16,922 17,617 15,384 15,432 | 1,030 1,028 1,065 852 889 | 43 49 71 (A)90 (b)130 | 77,713 96,125 108,505 | 51,432 82,011 |

⁽a) Includes dependants of deceased service pensioners.

Note. See footnote (a) last table previous page.

⁽b) Includes Northern Territory.

⁽b) Includes British Commonwealth veterans.

REPATRIATION

SERVICE PENSIONS: AMOUNT PAID (\$'000)

| | - | | | | | |
|----------------------|---|---------|---------|---------|---------|---------|
| Place of payment | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
| New South Wales(a) | | 13,963 | 15,633 | 23,011 | 33,105 | 49.985 |
| Victoria | | 10,696 | 12,075 | 18,033 | 26,532 | 40,180 |
| Queensland | | 8,042 | 9,150 | 13,567 | 19,070 | 28,033 |
| South Australia(b) . | | 4,651 | 5,185 | 7,467 | 10,340 | 15,133 |
| Western Australia . | | 4,769 | 5,298 | 7,394 | 10,191 | 15,149 |
| Tasmania | | 1,604 | 1,841 | 2,827 | 4,356 | 6,669 |
| Overseas | | 7 | 12 | 17 | 32 | 58 |
| Total | | 43,732 | 49,194 | 72,316 | 103,626 | 155,207 |

(a) Includes Australian Capital Territory.

(b) Includes Northern Territory.

Medical treatment for veterans and dependants of veterans

Medical treatment is provided for all disabilities which have been accepted as being service-related In addition and subject to certain conditions, treatment is provided for disabilities not due to war service for: veterans receiving disability pensions at or exceeding the maxmium general (100 per cent) rate; veterans who have contracted pulmonary tuberculosis; veterans of the First World War including nurses; widows and certain dependants of veterans whose deaths have been accepted as service-related and of deceased T. & P.I. pensioners; and certain service pensioners, including service pensioners of the South African 1899–1902. Veterans who have contracted pulmonary tuberculosis may receive treatment for that condition. During 1972–73 nursing home-care benefits were extended to T. & P.I. and Intermediate Rate disability pensioners suffering from chronic non-service related disabilities and to war and defence widows, widowed mothers and First World War nurses.

Treatment is provided at the six Repatriation General Hospitals (one in each State) and five auxiliary hospitals and an ANZAC hostel in Victoria. The total number of available beds for patients in wards of parts of wards, open for use in all these institutions at 30 June 1975 was 3,508 and expenditure during 1974–75 amounted to \$75,061,851. In addition expenditure of \$85,786,766 was incurred during 1974–75 on medical services outside these institutions.

Community patients. Where spare bed capacity exists in the Repatriation General Hospitals, patients may be admitted from the general community (mainly veterans with conditions that are not service-related, hospital staff and the local community).

Repatriation hospitals and institutions

Details of full-time staff in Repatriation general hospitals and other Repatriation institutions are given in the following table.

REPATRIATION HOSPITALS AND INSTITUTIONS: FULL-TIME STAFF 30 JUNE 1975

| Type of institution | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|----------------------------------|---|--------|-------|-------|------|------|------|-------|
| General hospitals— | | | | | | | | |
| Medical staff(a) | | 170 | 93 | 52 | 31 | 22 | 12 | 380 |
| Nursing staff | | 815 | 497 | 417 | 278 | 257 | 59 | 2,323 |
| Other staff | • | 1,278 | 901 | 539 | 407 | 480 | 137 | 3,742 |
| Total, general hospitals | | 2,263 | 1,491 | 1,008 | 716 | 759 | 208 | 6,445 |
| Other in-patient institutions(b) | | 274 | 138 | 234 | 29 | 54 | | 729 |
| Out-patient clinics(b) | | 178 | 76 | 22 | 32 | 31 | | 339 |
| Limb and appliance centres(b) | • | 86 | 77 | 32 | 22 | 15 | 13 | 245 |
| Grand total | | 2,801 | 1,782 | 1,296 | 799 | 859 | 221 | 7,758 |

The following table gives details of in-patients treated at Repatriation general hospitals and other Repatriation institutions in each State. The figures shown refer to treatment episodes, e.g. a person who is admitted to hospital twice during a year is counted twice.

REPATRIATION GENERAL HOSPITALS AND INSTITUTIONS: IN-PATIENTS TREATED, 1974-75

| | | | <i></i> | | | | |
|--|-----------|--------|----------|---------|-------|-------|--------|
| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust |
| RE | PATRIATIC | N GENE | RAL HOS | SPITALS | | | |
| In-patients at beginning of year Admissions and re-admission | | 446 | 454 | 292 | 338 | 98 | 2,51 |
| during year | . 17,160 | 10,147 | 9,925 | 5,815 | 7,198 | 1,621 | 51,860 |
| Total in-patients treated | . 18,047 | 10,593 | 10,379 | 6,107 | 7,536 | 1,719 | 54,38 |
| Discharges | . 16,152 | 9,231 | 9,608 | 5,443 | 6,790 | 1,541 | 48,765 |
| Deaths | . 982 | 860 | 391 | 383 | 409 | 94 | 3,119 |
| In-patients at end of year . | . 913 | 502 | 380 | 281 | 337 | 84 | 2,497 |
| | . 847 | 464 | 404 | 267 | 314 | 82 | 2,37 |
| ОТ | HER REPA | riatio | N INSTIT | UTIONS | | | · |
| In-patients at beginning of year Admissions and re-admission | | 115 | 149 | | 41 | | 497 |
| during year | . 2,291 | 912 | 1,054 | 55 | 248 | | 4,560 |
| Total in-patients treated | . 2,483 | 1,027 | 1,203 | 55 | 289 | | 5,057 |
| Discharges | . 2,153 | 863 | 976 | 31 | 241 | | 4,264 |
| Deaths | . 137 | 59 | 75 | 1 | 9 | | 281 |
| | . 193 | 105 | 152 | 23 | 39 | | 512 |
| In-patients at end of year . | • 175 | | | | | | |

In addition to the Repatriation institutions, eligible patients are treated in other country and metropolitan hospitals and nursing homes at Repatriation expense. During 1974-75, 22,387 Repatriation in-patients were accommodated and treated in hospitals and 8,209 in nursing homes.

Repatriation psychiatric patients requiring custodial care are, by agreement with the State Governments, accommodated at the expense of the Department of Repatriation in separate wings of psychiatric hospitals administered by the State authorities. Excluding 66 on trial leave, there were 690 Repatriation patients in these hospitals at 30 June 1975.

Out-patient treatment is provided throughout Australia at Repatriation hospitals and clinics and through the Repatriation Local Medical Officer Scheme. During 1974–75, 635,290 out-patients were treated at Repatriation institutions, and visits to or by local medical officers totalled 2,651,338. The number of Repatriation local medical officers in Australia at 30 June 1975 was 6,717.

Artificial limb and appliance services

In each State the Department of Repatriation maintains a limb and appliance centre, catering for patients requiring artificial limbs, surgical aids and appliances. The centres fit eligible Repatriation patients and those from other Commonwealth Government departments and instrumentalities, and, when possible, patients from State Government and philanthropic organisations, and private persons who cannot be fitted satisfactorily elsewhere.

Details of production at all centres during 1974-75 are as follows: arms, 304; legs, 2,365; surgical and adapted footwear, 7,731; other surgical appliances, 1,614; and repairs, 28,925.

General Repatriation benefits and miscellaneous

Other Repatriation Department activities

In addition to the payment of pensions and the provision of medical treatment, the Department also provides various benefits and allowances designed to meet the needs of special classes of veterans and their dependants.

These include educational training schemes, namely the Soldiers' Children Education Scheme (full details of which appear later in this section).

In addition, gift cars and an annual allowance for their upkeep are provided for veterans who, as a result of service, have suffered the amputation of both legs above the knees or amputation of one leg above the knee plus any two other amputations (above the ankle or at or above the wrist) or complete paraplegia resulting in the total loss of the use of both legs. A grant of up to \$100 may be made towards the funeral expenses of eligible veterans and certain of their dependants. Payment of up to \$10 may be made to provide such necessities as meals, sleeping accommodation, etc., for veterans in need of immediate relief. Also certain concessions in telephone rental charges are provided for some classes of veterans and their dependants, including blinded veterans, war and defence widows and certain service and Special Rate disability pensioners. Veterans who have been blinded as a result of service may be issued with talking book machines. The Australian Red Cross Society supplies 'book' records or cassettes for these machines, free of charge, thus enabling the blinded to enjoy a wide range of literature.

Expenditure in 1974-75 on general Repatriation benefits for all wars was \$7,680,000, comprising Soldiers' Children Education Scheme, \$3,667,000; recreation transport allowance, \$861,000; and other benefits \$3,156,000.

Trust (and other) funds administered by the Department of Repatriation held \$15,904,800 in securities (face value) and \$1,083,935 in cash, a total of \$16,988,735 at 30 June 1975.

Reciprocal arrangements with the United Kingdom, New Zealand and other countries provide for the payment of pensions, etc. to eligible Australian veterans living overseas and to eligible veterans from overseas who are living in Australia.

Soldiers' Children Education Scheme

The Soldiers' Children Education Scheme was established in 1921 and operates with the assistance of the voluntary Education Boards in each State. These Boards consist of representatives of government and non-government education authorities and of ex-service and other organisations which have a general interest in the welfare of the children of veterans. The objects of the Scheme are to assist and encourage eligible children in acquiring a standard of education compatible with their aptitude and ability, and to prepare them to enter an agricultural, commercial, professional, or industrial calling of their own choice. Eligible children are children of veterans whose deaths have been accepted as service-related; or of veterans who died from causes not service-related but who were receiving at the date of death a disability pension at a Special Rate for blindness, total and permanent incapacity, pulmonary tuberculosis, or amputation of two or more limbs; or of veterans who, as a result of service, are blinded, totally and permanently incapacitated, or receiving the Special Rate pension for pulmonary tuberculosis and are likely to receive such pension for a period of at least three years. From the commencement of primary education until the child reaches twelve years of age, school requisites and fares are provided. From the commencement of secondary education or from the age of twelve years, whichever is earlier an education allowance is payable while the child is undertaking primary or secondary education. Assistance beyond secondary education is provided where an approved beneficiary continues with a course of specialised education or training necessary for a career. At this stage of training, in addition to the education allowance, fees are paid and text books, essential equipment and other minor benefits are provided.

All education allowances are subject to an allowed income limit test, i.e. the amount of education allowance payable depends on the amount of income a child receives over the allowed limit. The scale of maximum allowances payable to eligible children at various stages of education is as follows.

SOLDIERS' CHILDREN EDUCATION SCHEME WEEKLY RATES OF ALLOWANCES, FROM 1 JANUARY 1975

| Type of training | | Living at home | Living awaj from hom | |
|-----------------------------------|--|----------------|-------------------------|--|
| At school— | | | | |
| Aged 12 and under 14 years. | | 3.70 | 12.15 | |
| Aged 14 ,, ,, 16 years . | | 5.55 | 12.15 | |
| Aged 16 ,, ,, 18 years . | | 12.15 | 18.80 | |
| Professional (university, etc.) . | | 19.23 | 30.77 | |
| Agricultural | | | 6.10 | |
| Industrial (apprenticeship, etc.) | | 4.45 | 8.80 | |

The following tables show the costs of education under the scheme for the year ended 30 June 1975 and the number of children in receipt of benefit at 30 June 1975.

SOLDIERS' CHILDREN EDUCATION SCHEME: EXPENDITURE, 1974-75 (\$'000)

| | | | | S.W.(a) | Vic. | Qld | S.A.(b) | W.A. | Tas. | Aust |
|------------------------------|---------|----|---|---------|------|-----|---------|------|------|----------|
| Cost of education of benefic | ciarie: | s— | | | | | | | | |
| Under 12 years of age | | | | 4 | 4 | 5 | 1 | 1 | 1 | 16 |
| 12 years of age and over | • | • | • | 1,429 | 942 | 569 | 354 | 199 | 153 | 3,646 |
| Total expenditure | | | | 1,433 | 946 | 574 | 355 | 200 | 154 | (c)3,662 |

⁽a) Includes Australian Capital Territory. of \$20,000.

SOLDIERS' CHILDREN EDUCATION SCHEME: NUMBER RECEIVING BENEFITS(a) AT 30 JUNE 1975

| Type of train | ing | | | | N.S.W. (b) | Vic. | Qld | S.A. (c) | W.A. | Tas. | Over- seas | Total |
|---------------|---------|--------|--------------|---|---------------|-------|-----|-------------|------|------|---------------|-------|
| At school— | | | | | | | | | | | | |
| Aged unde | г 14 у | ears(a | <i>1</i>) . | | 432 | 249 | 203 | 88 | 66 | 75 | 7 | 1,120 |
| Aged 14 as | id und | ler 16 | vears | | 581 | 391 | 301 | 123 | 74 | 107 | 6 | 1,583 |
| Aged 16 as | nd unc | ler 18 | years | | 468 | 364 | 150 | 114 | 62 | 40 | 12 | 1,210 |
| Total | at scho | ool | | | 1,481 | 1,004 | 654 | 325 | 202 | 222 | 25 | 3,913 |
| Professional | | | | | 532 | 372 | 230 | 145 | 74 | 47 | 9 | 1,409 |
| Agricultural | | | • | | • • | | | 2 | 3 | | • • | 5 |
| Industrial | • | • | • | • | • • | • • | | • • | • • | • • | • • | |
| Grand | total | | | | 2,013 | 1,376 | 884 | 472 | 279 | 269 | 34 | 5,327 |

⁽a) Refers only to children in receipt of an education allowance. (b) Includes Australian Capital Territory. (c) Includes Northern Territory. (d) From 12 years of age or the commencement of secondary education, whichever is the earlier.

Settlement of returned service personnel on the land

Reference to the settlement of returned service personnel on the land will be found in Chapter 22, Rural Industry.

Re-establishment benefits for former regular and former national servicemen

Subject to prescribed conditions, vocational training and business loans are provided for former regular and former national servicemen, with a view to ensuring that they are not at a disadvantage when they return to civil life. Loans from \$5,000 (business and professional) and \$10,000 (agricultural) may be granted to veterans in these categories who satisfy prescribed requirements in respect of suitability of their proposed business propositions and adequacy of security. Agricultural loans are administered by the Department of Primary Industry.

⁽b) Includes Northern Territory.

⁽c) Excludes overseas expenditure

The Services Canteens Trust Fund

The Services Canteens Trust Fund was established under the Services Trust Funds Act 1947. Its funds are derived from the assets and profits of wartime services canteens, mess and regimental funds of disbanded units, and several other sources.

The total amount transferred to the Fund to 31 December 1975 was \$11,058,551. The Act prescribed that, of this, \$5 million and such further amounts as the trustees of the Fund might from time to time decide, should be devoted to the provision of education facilities for the children of eligible veterans, and that the balance of the Fund should be used to provide relief for veterans and their dependants in necessitous circumstances.

The Fund is administered by ten honorary trustees appointed by the Governor-General. The trustees have power to determine the persons or groups of persons to benefit from the Fund and the extent of the benefits to be granted within the provisions of the Act, and to appoint regional committees to assist with the administration. Members of regional committees are all persons who served in the 1939-45 War or are widows of men who served during the war. The trustees and members of regional committees serve in an honorary capacity.

Assistance from the Fund

Persons eligible for assistance from the Fund are those who, between 3 September 1939 and 30 June 1947, served in the Australian Naval, Military or Air Forces, including members of the canteens staff of any ship of the Royal Australian Navy, persons duly accredited to any part of the Defence Forces who served in an official capacity on full-time paid duty, and their dependants. The trustees have introduced schemes for providing welfare relief for veterans who are eligible for benefits, and for their dependants; benefits for children of eligible veterans who are suffering from serious and incapacitating afflictions; and education benefits for the children of eligible veterans. From its inauguration in 1947 the Fund is to be available for forty years for both welfare relief and educational benefits.

The total assistance granted under these three schemes from the inception of the Fund to 31 December 1975 was \$13,897,840 (\$409,403 during 1975) distributed as follows: Welfare relief, \$4,335,935 (\$155,051); Assistance for afflicted children, \$344,609 (\$2,092); and Educational assistance, \$9,217,296 (\$252,260).

For detailed information on the operation of the Fund reference should be made to the annual reports of the Services Canteens Trust Fund.

Ex-service personnel, widows and children

In November 1971, a survey based on the quarterly population survey (see Chapter 20, Employment and Unemployment) was conducted at the request of the Department of Repatriation and the Services Canteens Trust Fund. The survey questions were designed to identify four classes of person, namely:

- (a) those who had served in the Australian armed forces during wartime;
- (b) those ex-service personnel who had a disability which had been accepted by the Repatriation Department as having been war-caused and those who were in receipt of a war pension;
- (c) widows of men who had served during wartime;
- (d) children, under 21 years of age, of ex-service personnel or their widows.

Details of the survey were published in Year Book No. 59, page 112 and the mimeographed bulletin Ex-service Personnel, Widows and Children, November 1971 (Reference No. 15.1).

CHAPTER 6

INTERNATIONAL RELATIONS

Australia's international relations have developed as a natural outcome of the country's growth from 19th century colonial status to independent nationhood. Initially, association with Britain and co-operation with the Commonwealth countries were the chief pre-occupations. Later, partly as a consequence of the vital role played in the Pacific by the United States of America in the 1939-45 War and during the Cold War period in ensuring Australian security, close relations were also developed with that country. These links remain important factors in Australian policy.

Increasing importance is being attached to Australia's interests in areas adjacent to Australia—the countries of Asia and the Pacific, as well as the Indian and Pacific Oceans. Australia has a strong interest in the security and development of this area. Special attention is being given to developing Australia's bilateral relationships with China, Japan, Indonesia and Papua New Guinea. Within South East Asia, Australia has particularly good relations with the Association of South-East Asian Nations (ASEAN) group of countries; the relationship is being expanded and developed with this group and with all countries in the Asian/Pacific area.

Australia is willing to develop friendly and co-operative relations with all countries, especially those which share Australia's objectives, and to give full support to international initiatives for the reduction of world tensions. Participation in the Commonwealth of Nations, the United Nations and other multilateral forums is also of significance in Australia's foreign policy. In these bodies and in its bilateral relationships, Australia is working towards the promotion of security and development through co-operation with neighbouring countries and through efforts to reduce tensions generally in the world.

Relations with the Great Powers

Australia has extensive relations with the United States. The alliance is a reflection of the common interests, values and outlook of the two countries. This partnership finds expression in the ANZUS Treaty, signed by Australia, New Zealand and the United States in 1951. Numerous other contacts also exist between Australia and the United States, at both government and private levels. During 1976 Australia is making a significant contribution to the United States' Bicentenary celebrations.

Australia attaches importance to its relationship with the Soviet Union, and is working to develop improved co-operation, particularly in the trade, scientific and cultural fields, in which agreements have been signed between the two countries.

Since the establishment of diplomatic relations with China in 1972, the relationship has steadily taken on increasing substance. Cultural and trade relations have continued to develop and the increased scope for consultation between Governments at embassy level and during visits of senior Government representatives has been valuable.

Relations with Asia and the Pacific

Asia and the Pacific are the areas of Australia's primary interest and concern. This has long been reflected in Australia's active role in regional associations and organisations such as the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) (formerly the Economic Commission for Asia and the Far East), the Colombo Plan, the Asian Development Bank, the South Pacific Forum, the South Pacific Commission, the South Pacific Bureau for Economic Co-operation and in many other commercial and professional bodies, both private and government. This involvement was further developed in 1973, when Australia became an associate member of the South-East Asian Ministers of Education Organisation (SEAMEO) and a full member of the Ministerial Conference for the Economic Development of South-East Asia (MEDSEA).

Australia believes that peace and prosperity in Asia and the Pacific largely depend on the ability of countries in the area to co-operate with one another to secure these objectives; and for major powers, both local and external, to reach a durable accommodation of interests in which their fears and aspirations and the independence of the smaller or less populous countries of the region will be respected.

Australia welcomes the progress achieved by the Association of South-East Asian Nations (ASEAN), which it considers a model of successful regional co-operation. Australia also follows with interest ASEAN initiatives towards contributing to regional peace and stability and welcomes the objective that the ASEAN member countries have set for themselves of a zone of peace, freedom and neutrality in South-East Asia. Australia has entered a program of economic co-operation with ASEAN to which it has pledged SA5 million.

Australia places great value on maintaining and strengthening its cordial and close relations with Indonesia. Relations between the two countries allow for differences of views.

Australia also gives high priority to developing and strengthening its relations with Japan, both bilaterally and in international forums, on a basis of mutual trust and understanding. The two nations have become increasingly interdependent in economic terms: Japan is Australia's biggest trading partner and Australia is a major export market for Japan. Both countries have a common interest in the Asia-Pacific region's economic and political development.

Australia also recognises the importance of its link with the Indian sub-continent, and has taken steps to strengthen its relationship with the countries of the area.

In the Pacific, Australia looks to consolidate and to expand its co-operative activities to promote the stability, welfare, harmony and economic development of the region. Australia was a foundation member of both the South Pacific Commission and of the South Pacific Forum. Matters of common interest are regularly discussed with Australia's Pacific partners.

Papua New Guinea, Australia's nearest neighbour and former territory, attained independence on 16 September 1975. It continues to be given the highest priority in bilateral relations. Australia has pledged a minimum of SA930 million in aid to Papua New Guinea over the five years beginning in 1976.

Australia maintains very close connections, and has a very wide range of common interests with New Zealand. It is intended to develop these.

Relations with Europe

Australia attaches considerable importance to its friendly relations with the European Communities, as well as to its bilateral relations with individual European countries. Co-operation in the cultural, scientific and technical fields is increasing, while membership of the Organisation for Economic Co-operation and Development enables Australia to participate actively in consultation on a wide range of policy issues with countries experiencing similar social and economic circumstances.

Although aspects of the relationship are changing, the ties of kinship that most Australians have with Britain remain strong and continue to be of great importance. There are opportunities in many fields for mutually beneficial co-operation, which will be facilitated by close ties of friendship.

Indian Ocean

Australia is concerned that the Indian Ocean should not become a major area of competition between the superpowers and prefers that their presences there be at the minimum practical level but balanced. Australia therefore supports United States proposals to upgrade a logistic centre at Diego Garcia.

Australia is a member of the United Nations Ad Hoc Committee to study the implications of the Indian Ocean as a zone of peace. Australia supported the UN Resolution on the Indian Ocean in 1975 which, inter alia, invited all States to co-operate in a practical manner with the Committee in the discharge of its functions. Australia remains concerned with questions affecting the future stability of the Indian Ocean area and supports the reduction of tensions there.

Relations with other countries

Australia recognises the need to develop relations with other parts of the world and has increased its diplomatic representation in Africa, the Caribbean, Latin America and the Middle East. Development of relations in these regions reflects several common interests, including the role of middle powers and resources policies.

United Nations

Australia played an active part in drafting the Charter of the United Nations at the Conference on International Organisation in San Francisco in 1945, and has been a consistent supporter of the principles and objectives of the United Nations since its foundation. Besides participating actively in the affairs of the United Nations through the annual debates in the General Assembly, Australia has served on the Security Council (1946–47, 1956–57 and 1973–74), the Economic and Social Council (1948–50, 1953–55, 1962–64 and 1974–76), the Trusteeship Council (1947–75) on the governing bodies of the principal and specialised agencies.

Australia has actively supported decolonisation and besides having been a member of the Trusteeship Council (by virtue of its former administration of Nauru and of New Guinea) is a member of the Special Committee on Decolonisation (the Committee of 24) and of the Council for Namibia.

In 1950, Australia contributed to the United Nations forces in Korea. It has also been directly involved in United Nations peace-keeping activities in Greece (1947), Palestine (1947), Indonesia (1948-49), Kashmir (1947), the Arab States and Israel (1948), Hungary (1956-57) and Cyprus (since 1964). It is a member of the special Committee on Peace-keeping Operations. Australia contributed its share of the costs of the United Nations operations in the Congo and in the Middle East. It also contributed personnel for United Nations observer missions in India/Pakistan and the Middle East, and has made voluntary contributions to the costs of maintaining the United Nations force in Cyprus as well as providing a police contingent for Cyprus.

In the economic, social and cultural sphere, Australia has contributed to the work of the United Nations through membership of the Economic and Social Council. It was a foundation member of one of the four United Nations regional economic commissions now the Economic and Social Commission for Asia and the Pacific, the 4th, 15th and 24th Sessions of which (under its former title of the Economic Commission for Asia and the Far East) were held in Australia.

As a leading agricultural country, Australia played a large part in the establishment of the Food and Agriculture Organisation. The 10th Regional FAO Conference for Asia and the Far East was held in Canberra in August-September 1970. Australia continues to be a member of the International Civil Aviation Organisation, the International Telecommunication Union, the World Meteorological Organisation, the Inter-Governmental Maritime Consultative Organisation, the International Atomic Energy Agency, and Universal Postal Union. It is also a member of the United Nations Development Program, the International Labour Organisation, the World Health Organisation, the United Nations Education, Scientific and Cultural Organisation, and numerous financial and other bodies. Australia became a member of the Governing Council for the United Nations Environment Program for three years from 1973.

Australia has played an active role in the United Nations Conference on the Law of the Sea including the latest session (fourth) of the conference in New York in March/May 1976. At the 29th session of the United Nations General Assembly in 1974 Australia obtained the inscription of an item on diplomatic asylum, and expressed its strong support for an international agreement on the principles which should govern the granting of diplomatic asylum. Australia was represented at a meeting of experts in Geneva in April/May 1975 to review a draft convention on territorial asylum.

Australia has participated in the Diplomatic Conference on the Reaffirmation and Development of Humanitarian Law applicable in Armed Conflicts, sessions of which were held in Geneva in 1974, 1975 and 1976. The Australian and State Governments were represented at the fifth United Nations Congress on Prevention of Crime and Treatment of Offenders in Geneva in September 1975. Australia will be host to the next congress, in 1980.

The Commonwealth

Opportunities to work co-operatively exist in many other multilateral forums among which the Commonwealth of Nations is a distinctive and unique framework bringing together around a quarter of the world's population. Australia participates actively in Commonwealth activities and is host to a meeting of senior Commonwealth officials in 1976.

Treaties

The bilateral and multilateral agreements to which Australia is party are printed in the Australian Treaty Series and in the Department of Foreign Affairs Annual Report. Details may be obtained from the Department of Foreign Affairs, Canberra, A.C.T. 2600.

Australia's Official Development Assistance to Less-Developed Countries

Since 1945, Australia has spent over \$2,650 million on aid. In the last decade, official development assistance has more than trebled from \$98 million in 1964-65 to \$328 million in 1974-75. For 1975-76 it is expected to reach \$376 million. This represents an expenditure of about \$28 per head of population in Australia.

Australia's aid to less-developed countries was 0.56 per cent of GDP in 1974-75.

The table below shows Australia's official development assistance during the years 1971-72 to 1974-75 and total post-war expenditure to 1974-75.

INTERNATIONAL RELATIONS

AUSTRALIA'S OFFICIAL DEVELOPMENT ASSISTANCE TO LESS-DEVELOPED COUNTRIES (\$'000)

| Scheme 1971–72 1972–73 1973–74 1974–75 | Total 945–46 to |
|--|--------------------|
| | |
| BILATERAL PROGRAMS— | |
| Aid to Papua New Guinea | |
| Agreement and International Wool Agree- | |
| ment | 119,890 |
| Emergency Food Aid | 36,678 |
| SEATO Aid Program 1,999 1,805 | 29,484 |
| Indus Water Scheme | 23,268 |
| United Nations Special Program (a)23,012 | 23,012 |
| South Pacific Aid Program | 10,566 |
| Commonwealth Co-operation in Education | ,- |
| Scheme | 9,477 |
| Special Aid(c) | 9,070 |
| Special Commonwealth African Assistance Plan 548 576 1,025 1,430 | 7,134 |
| Foreign Exchange Operations Fund—Laos . 643 634 638 320 | 6,495 |
| Refugee Relief | 3,630 |
| Disaster Relief | 2,062 |
| Exchange Support Fund—Cambodia 420 773 344 | 1,537 |
| Australian/Asian University Aid and Co- | 1,557 |
| operation Scheme 200 229 262 334 | 1,258 |
| Australian International Award Scheme (in- | 1,200 |
| cluding South East Asian Scholarships) . 47 40 31 97 | 775 |
| Loan to Fiji for Air Pacific | 658 |
| Voluntary Aid Associations | 232 |
| Australian Council for Overseas Aid | 177 |
| | (g)174 |
| Our Service Durant | 165 |
| Overseas Service Bureau | 103 |
| Development | 50 |
| | |
| Total bilateral aid 187,507 204,340 242,788 278,575 2 | 2,329,751 |
| MULTILATERAL PROGRAMS— | |
| | |
| Financial Institutions— | |
| International Development Association . 6,864 5,696 6,870 15,314 | 70,314 |
| Asian Development Bank 662 2,680 2,822 10,815 | 40,073 |
| Other | 50,173 |
| Total 7,526 8,376 9,692 26,717 | 160,560 |
| Less Repayments by IBRD 396 706 706 | 1,808 |
| Total Financial Institutions 7,526 7,980 8,986 26,011 | 158,752 |

For footnotes see end of table

AUSTRALIA'S OFFICAL DEVELOPMENT ASSISTANCE TO LESS-DEVELOPED COUNTRIES—continued (\$'000)

| Scheme | 1971-72 | 1972-73 | 1973–74 | 1974–75 | Total 1945–46 to 1974–75 |
|---|---------|---------|--------------|--------------|--------------------------------|
| CONTRIBUTIONS TO UN FAMILY— | | | | | - |
| United Nations Relief and Rehabilitation | | | | | |
| Administration | 1,735 | 1,781 | 1,997 | 2,525 | (h)49,586 24,804 |
| Emergency Fund | 550 | 558 | 632 | 779 | 18,910 |
| United Nations International Children's Emergency Fund—Indo-China(j) World Food Program(k) United Nations High Commissioner for | 1,293 | 1,217 | 100 1,742 | 400 2,052 | |
| Refugees—Indo-China(I) United Nations High Commissioner for | | | • • | 3,476 | 3,476 |
| Refugees | 175 | (m)290 | 200 | 258 | 3,072 6,594 |
| International Refugee Organisation Other | 286 | 378 | 1,304 | 9,034 | |
| Total contributions to UN family | 4,039 | 4,224 | 5,975 | 18,524 | 139,113 |
| CONTRIBUTIONS TO REGULAR BUDGETS OF MULTILATERAL AGENCIES PARTLY ACTIVE IN DEVELOPMENT(n)— | | | | | |
| World Health Organisation | 469 | 493 | 445 | 543 | |
| United Nations Organisation United Nations Educational, Scientific and | 148 | 148 | 139 | 177 | 2,240 |
| Cultural Organisation | 71 | 71 | 77 | 104 | -, |
| Food and Agricultural Organisation | 52 | 53 | 53 | 62 | |
| International Labour Organisation | 52 | 46 | 51 | 55 | 698 |
| General Agreements on Tariffs and Trade. Other | 19 8 | 22 8 | 23 39 | 36 74 | |
| Total contributions to regular budgets, etc. | 819 | 841 | 827 | 1,051 | 12,092 |
| CONTRIBUTIONS TO OTHER AGENCIES— | | | | | |
| South Pacific Commission | 331 | 351 | 508 | 692 | 5,847 |
| Agricultural Research Centres(o) | 17 | 295 | 448 | 1,121 | |
| Other | 280 | 804 | 1,225 | 2,169 | 5,265 |
| Total to other agencies | 628 | 1,450 | 2,181 | 3,982 | 12,993 |
| Total multilateral aid | 13,012 | 14,495 | 17,969 | 49,568 | 322,950 |
| Total official development assistance . | 200,519 | 218,835 | 260,757 | 328,143 | 2,652,701 |

⁽a) Assistance to Papua New Guinea under Colombo Plan and the United Nations Special Program is included with 'Aid to Papua New Guinea'. (b) Includes \$38,380 from the 1950-51 contributions to United Nations. (c) Includes Special Aid to Cambodia, Republic of Vietnam and to Indo-China; also Rehabilitation and Relief Aid for Bangladesh and Emergency Relief to Indo-China. (d) Excludes \$420,000 contributed to Exchange Support Fund (Cambodia), (e) Comprises Emergency Relief for Indo-China and Special Aid under the Colombo Plan to Indo-China. (f) Emergency relief for refugees in Cyprus. (g) Includes Korean Technical Assistance, Australian Medical Team to Congo, Transport cost of Relief Aid, Contributions to Medical Services in Yemen, Cholera Vaccine to Thailand and other Bilateral Aid. (h) Includes Post-United Nations Relief and Rehabilitation Administration Relief. (i) Includes United Nations Special Fund and United Nations Expanded Program of Technical Assistance. (j) Included under the vote 'Colombo Plan and Special Aid to Indo-China'. (k) Includes amounts provided under Food Aid Convention—International Grains Agreement and International Wheat Agreement. (l) Includes amounts provided under 'Colombo Plan and Special Aid to Indo-China' (m) Includes amounts provided under 'Colombo Plan and Special Aid to Indo-China' (m) Includes special contribution of \$102,720 for resettlement of Ugandan Asians. (n) The development content is calculated by applying to the contribution to each agency the percentage set out in the-DAC Statistical Reporting Directives. (o) Previously known as International Rice Research Institute.

More than three-fifths of Australia's aid goes to Papua New Guinea. The remainder is channelled through multilateral programs (e.g. the U.N. Agencies and the Asian Development Bank) and through Australia's bilateral programs. The following table sets out the countries which receive bilateral aid.

AUSTRALIA'S BILATERAL AID BY GEOGRAPHICAL REGION AND COUNTRY(a) (\$'000)

| Country | 1973-74 | 1974-75 | Country | | 1973-74 | 1974-75 |
|----------------------------|---------|---------|---------------------|----|---------|---------|
| Asia— | | | | | | |
| Afghanistan | 82 | 166 | Western Samoa | | 282 | 1,949 |
| Bangladesh | 10,598 | 15,453 | Other | | 191 | 710 |
| Bhutan | 114 | 145 | Total Oceania | | 181,207 | 175,942 |
| Burma | 1,763 | 2,983 | Total Oceania | • | 101,207 | 173,742 |
| Cambodia | 836 | 378 | Africa— | | | |
| India | 1,358 | 10,732 | Ethiopia . | | 850 | 411 |
| Indonesia | 21,367 | 22,866 | Ghana . | | 142 | 185 |
| Korea, Republic of . | 391 | 406 | Kenya . | | 108 | 451 |
| Laos | 1,399 | 3,061 | Mauritius . | | 695 | 821 |
| Malaysia | 2,876 | 3,858 | Mozambique | | | 235 |
| Nepal | 242 | 349 | Nigeria . | | 172 | 170 |
| Pakistan | 2,617 | 4,606 | Somalia . | | 2 | 515 |
| Philippines | 1,923 | 5,114 | Sudan | | 13 | 684 |
| Singapore | 602 | 662 | Tanzania . | | 417 | 1,803 |
| Sri Lanka | 3,067 | 6,747 | Uganda . | | 72 | 101 |
| Thailand | 3,119 | 4,423 | Zambia . | | 165 | 390 |
| Viet Nam, Democratic | | | Other | | 319 | 2,350 |
| Republic of | 660 | 1,990 | | | | • |
| Viet Nam, Republic of | 3,728 | 5,557 | Total Africa . | | 2,955 | 8,116 |
| Other | 1,757 | 4,663 | Europe— | | | |
| | | | | | 2 | 153 |
| Total Asia | 58,499 | 94,159 | Cyprus Other | • | 6 | 6 |
| | | | Other | • | U | O |
| Oceania— | | | Total Europe . | | 8 | 159 |
| British Solomon Islands . | 171 | 270 | | | 4.4 | 400 |
| Fiji | 2,629 | 3,418 | America—Total . | • | 44 | 100 |
| Gilbert and Ellice Islands | 406 | 180 | Unspecified-Total . | | 75 | 99 |
| Papua New Guinea . | 177,076 | 168,835 | | | 73 | |
| Tonga | 452 | 580 | Total bilateral aid | d. | 242,788 | 278,575 |

⁽a) Countries which received more than \$100,000 from Australia in 1974-75 are shown separately.

Bilateral aid is channelled through a number of programs, for details see Table page 126. Through these programs, Australia assists with a number of developmental projects including the provision of experts and equipment, balance of payment support and training of students.

The following table sets out the numbers of students who have been trained in Australia under the aid programs.

PERSONS FROM LESS-DEVELOPED COUNTRIES FINANCED BY AND TRAINED IN AUSTRALIA

| (Number) | | | |
|---|---|--|---------------------------------------|
| Scheme | Cumulative total at 30 June 1975 | Total in training at 30 June 1975 | Number of new awards 1974–75 |
| Australian/Asian University Aid and Co-operation Scheme | 59 | 22 24 | 21 |
| Australian International Awards Scheme(a) | 162 | 24 | 21 |
| Scheme(b) | 2.040 | 206 | 466 |
| Colombo Plan | 15,041 | 1,775 | 1,108 |
| Commonwealth Co-operation in Education Scheme . | 1,637 | 211 | 169 |
| Special Commonwealth African Assistance Plan | 1,298 | 84 | 126 |
| South East Asian Treaty Organisation | 86 | | |
| South Pacific Aid Program | 639 | 75 | 123 |
| Total | 20,962 | 2,397 | 2,034 |

⁽a) Includes South-East Asian Scholarship Scheme. (b) Includes persons trained at International Training Institute (formerly Australian School of Pacific Administration) and also the Commonwealth Practical Training Scheme.

Diplomatic representation

The Department of Foreign Affairs is responsible for advising the Minister for Foreign Affairs and the Commonwealth Government on the conduct of foreign affairs and relations with foreign governments. Its officers staff the Australian diplomatic service and the consular and administrative service.

In January 1976 Australia maintained the following diplomatic and consular missions overseas and full details of these missions are available from the Department of Foreign Affairs, Canberra, A.C.T. 2600.

Note. In certain cases the Head of Mission accredited to one country is also accredited to another country. Where this is the case the name of the country in which the Head of Mission is located is shown in brackets. Except where indicated the missions are located in capital cities.

AUSTRALIAN MISSIONS OVERSEAS

Embassies Afghanistan (in Pakistan) Indonesia Peru The Philippines Algeria Iran Poland Arab Republic of Egypt Iraq (in Lebanon) Argentina Ireland **Portugal** Austria Israel Romania (in Yugoslavia) Belgium Italy Saudi Arabia Bolivia (in Brazil) Ivory Coast (in Ghana) Senegal (in Ghana) Japan South Africa, Republic of Brazil Jordan (in Lebanon) Bulgaria (in Yugoslavia) Spain Burma Khmer Republic Sudan (in Arab Republic of Chile Republic of Korea Egypt) Sweden China Kuwait (in Saudi Arabia) Costa Rica (in Mexico) Switzerland Czechoslovakia (in Austria) Lebanon Syria (in Lebanon) Denmark Luxembourg (in Belgium) Thailand Equador (in Peru) Malagasy Republic (in Turkey, Republic of Union of Soviet Socialist Ethiopia (in Kenya) Tanzania) Finland (in Sweden) Maldives (in Sri Lanka) Republics United Arab Emirates (in France Mexico German Democratic Mongolia (in Moscow) Saudi Arabia) Republic Nepal (in India) United States of America The Netherlands Uruguay (in Argentina) Germany, Federal Republic of Norway (in Sweden) Venezuela (in Peru) Guatemala (in Mexico) Pakistan Viet Nam, Democratic Holy See (in Turkey) Panama (in Mexico) Republic of Hungary (in Austria) Paraguay (in Argentina) Yugoslavia **High Commissions** Bangladesh India Papua New Guinea Bahamas (in Jamaica) Jamaica Singapore Barbados (in Jamaica) Sri Lanka Kenya Botswana (in South Africa) Lesotho (in South Africa) Swaziland (in South Africa) Britain Malaysia Tanzania Tonga (in Fiji) Canada Cyprus (in Greece) Mauritius (in Tanzania) Trinidad and Tobago (in Nauru Jamaica) Ghana New Zealand Uganda (iri Kenya) Granada (in Jamaica) Western Samoa (in Fiji) Nigeria Northern Ireland (in Britain) Guyana (in Jamaica) Zambia (in Tanzania)

Hong Kong

Commissions

Mission to—European Atomic Energy Community (Brussels); European Coal and Steel Community (Brussels); European Communities (Brussels); United Nations (New York); United Nations (Geneva); United Nations Educational, Scientific and Cultural Organisation (Paris);

Solomon Islands

Organisation for Economic Co-operation and Development (Paris).

Consulate-General in—Los Angeles; New York; San Francisco; Chicago; Berlin; Hamburg; Osaka; Milan; Bombay; Calcutta; Karachi; Bahrain; Sao Paulo.

Consulate in-Geneva; Lae; Noumea; Capetown; Honolulu; Rio de Janeiro.

Specialist officers of the Department of Overseas Trade, other Australian Government Departments and the Defence Services stationed abroad are attached to Australian diplomatic or consular missions. Senior attached officers are in some cases accredited to the missions with diplomatic or consular ranks approved by the Minister for Foreign Affairs. In addition, the Department of Overseas Trade maintains Trade Commissioner posts which engage in trade promotion in a number of cities where Australia does not have diplomatic or consular representation (see page 131).

The Department of Immigration and Ethnic Affairs similarly maintains offices overseas which engage in selection of migrants.

Agents-General for States

From early times the Australian colonies maintained agents in London to encourage immigration and to carry out commercial and financial negotiations. Since Federation the States have continued to maintain Agents-General in London, all of whom work in close co-operation with the High Commissioner for Australia at Australia House, London. Some of the States also maintain other offices overseas, e.g. New South Wales has offices in New York, Tokyo and Wiesbaden.

Diplomatic representation to Australia

The following list shows the diplomatic missions to Australia. Full details of Commonwealth and foreign representation in Australia are available from the Department of Foreign Affairs, Canberra. Consular representatives are not included and particulars of these are available from the Department of Foreign Affairs, Canberra. There are about 300 such representatives in Australia, and sixty countries are represented.

DIPLOMATIC REPRESENTATION TO AUSTRALIA

Embassies

Afghanistan (in Japan)
Arab Republic of Egypt
Argentina
Austria
Belgium
Brazil
Bulgaria (in Indonesia)
Burma
Chile
China
Czechoslovakia (in
Indonesia)
Bunmark
Indonesia)
K
Denmark
Finland
L
France

Republic
Germany, Federal Republic of
Greece
Greece

Guatemala (in Japan)

German Democratic

Holy See

Hungary (in Indonesia) Indonesia Iran Iraq (in Japan)

Ireland Israel Italy Japan

Jordan (in Japan) Korea, Republic of Kuwait (in Japan) Laos

Lebanon Mexico Mongolia (in Japan) Nepal (in Japan)

The Netherlands

Norway Pakistan Peru

The Philippines
Poland
Portugal
Romania
Senegal (in India)
South Africa, Republic of

Spain Sweden Switzerland Thailand

Turkey, Republic of Union of Soviet Socialist Republics

United States of America

Uruguay

Viet Nam, Democratic

Republic of

Yugoslavia, Socialist Federal

Republic of

High Commissions

Bangladesh Britain Canada Fiji Ghana India Malaysia Malta New Zealand Nigeria

Papua New Guinea Singapore Sri Lanka

Overseas trade representation

The Australian Trade Commissioner Service, January 1977

The Department of Overseas Trade maintains Trade Commissioners at fifty-seven posts in forty-five countries. Forty-five editions of the Department of Overseas Trade's promotion periodical Australian Trading News now circulate in more than 100 countries in fifteen languages. (See also Australian Trade Missions in the chapter Overseas Transactions.)

The countries where Australian Trade Commissioner posts are located are shown in the following list, Except where indicated the missions are located in capital cities only.

Indonesia Poland Argentina Saudi Arabia Austria Iran Bahrain Singapore Iraq South Africa, Republic of Belgium Israel Brazil (Sao Paulo) Italy (Rome, Milan) (Johannesburg) Spain Britain (London, Manchester) Japan (Tokyo, Osaka) Sweden Canada (Vancouver, Ottawa, Kenya Switzerland (Geneva, Berne) Toronto) Korea, Republic of China Malaysia Thailand Egypt, Arab Republic of Mexico Trinidad United States of America The Netherlands New Zealand (Wellington, France (Washington, D.C., Chi-Auckland, Christchurch) York, San German Democratic Republic cago, New Francisco) Germany, Federal Republic of Nigeria (Bonn, Hamburg) Pakistan U.S.S.R. Greece Papua New Guinea Yugoslavia

Full details of the Australian Trade Commissioner posts are available from the Department of Overseas Trade, Canberra, A.C.T.

Peru

The Philippines

Australian Trade Correspondents and Marketing Officers

Hong Kong

India

Detached Australian Trade Correspondents and Marketing Officers supplement the work of the Trade Commissioner in whose Territory they are located. Correspondents are located in Addis Ababa, Ethiopia; Algiers, Algeria; Istanbul, Turkey: Kota Kinabalu, Sabah; Port Louis, Mauritius; Marketing Officers are located in Bombay and Calcutta, India; Columbo, Sri Lanka; Copenhagen, Denmark; Dacca, Bangladesh; Dublin, Ireland; Honolulu, U.S.A.; Noumea, New Caledonia; Rangoon, Burma; Rio de Janeiro, Brazil; Santiago, Chile; and Valletta, Malta.

Trade Commissioners of overseas governments in Australia

The Trade Representatives of overseas governments in Australia are shown in the following list. Full details of Trade Representatives in Australia are available from the Department of Foreign Affairs, Canberra, A.C.T.

Austria (Sydney) Belgium (Sydney, Melbourne, Perth) Britain (Canberra, Sydney, Melbourne, Brisbane, Adelaide, Perth) Bulgaria (Sydney) Canada (Sydney, Melbourne) China (Canberra) Czechoslovakia (Sydney) Denmark (Sydney) Finland (Sydney) France (Sydney, Melbourne) German Democratic Republic (Sydney) Greece (Sydney) Hungary (Sydney) Israel (Sydney) Italy (Sydney, Canberra, Melbourne)

Indonesia (Sydney, Canberra)

Japan (Canberra)

Mexico (Sydney) New Zealand (Sydney, Melbourne, Canberra, Brisbane, Perth) Norway (Canberra) Pakistan (Sydney) Peru (Canberra) Philippines (Sydney, Melbourne) Poland (Sydney) Romania (Sydney) Singapore (Sydney) South Africa, Rep. of (Melbourne) Spain (Sydney) Sri Lanka (Sydney) Sweden (Sydney, Melbourne)

United States of America (Sydney, Melbourne)

U.S.S.R. (Canberra)

Malaysia (Sydney)



CHAPTER 7

POPULATION

This chapter includes statistics of the distribution, growth and structure of the population and statistics of the numbers and characteristics of overseas arrivals and departures. More detailed figures will be found in the bulletin *Demography* (4.9), and *Overseas Arrivals and Departures* (4.1 and 4.23), and current statistics are published in the *Monthly Review of Business Statistics* (1.4), *Population and Vital Statistics* (Preliminary) (4.16), Summary of Vital and Population Statistics (4.11) and Overseas Arrivals and Departures (4.3). The final detailed results of each population census are published in a series of volumes and parts (for list see Publications of the Australian Bureau of Statistics, (1.8)).

With the proclamation of the Constitution Alteration (Aboriginals) 1967 on 10 August 1967 the provision in Section 127 of the Constitution, requiring the exclusion of Aborigines in reckoning the numbers of the people of the Commonwealth or of a State or other part of the Commonwealth, was repealed. Accordingly, population statistics for all dates subsequent to 10 August 1967 no longer exclude full-blood Aborigines. Estimates for earlier periods back to 30 June 1961 have also been revised to include these Aborigines.

Particulars of the Aboriginal population are given on pages 152-3 in this chapter.

Types of population statistics

Statistics of the population and its characteristics for Australia or the component States and Territories or other constituent areas at specific dates are of four main types:

- (i) Those ascertained by census enumeration. The population censuses result in comprehensive statistics of characteristics of the population, such as age, sex and birthplace.
- (ii) Those ascertained by 'population counts'. From time to time in specific areas there are additional enumerations of the population, which are known as population counts, because normally very little information other than the number of persons and their sex is obtained.
- (iii) Current estimates of number, sex and age. Estimates are prepared for dates subsequent to a census, taking account of natural increase and net migration since the last census.
- (iv) Projections of the population. Projections of the population and its age/sex structure are prepared from time to time, based on current estimates of population by age and sex and on assumptions about future trends in mortality, fertility and net migration.

The census

In Year Book No. 53, a special article was included outlining the history, purposes, legal basis, organisation, and publication of results of population censuses in Australia (see pages 164-70 of that issue).

Early 'musters'

Although regular censuses were not instituted in the several colonies until the years specified in the table below, population returns in one form or another have existed from a very early period in the history of Australia. The earliest enumerations were known as 'musters', and although the actual results of very few of them have been preserved, it is probable that during the early days of colonisation they were of frequent occurrence. The first official 'muster' was taken in 1788 soon after the new settlement at Sydney Cove was formed, and in 1803 the first 'muster' of convicts in Van Diemen's Land (now Tasmania) was conducted.

Development of the census

The first regular census in Australia was taken in New South Wales in November 1828, and included the population of Moreton Bay (now Queensland) but not Van Diemen's Land (Tasmania). Particulars were asked concerning the names, ages and civil conditions of the inhabitants. The next

census was taken in 1833, and was followed by another in 1836, when arrangements were made for the enumeration of the population of the newly-established settlement at Port Phillip (Victoria). The first censuses taken in Tasmania, Victoria and Queensland as separate colonies were in 1841, 1854 and 1861 respectively. The first regular census in South Australia was taken in 1844 and in Western Australia in 1848. The 1881 census was the first simultaneous census taken in Australia and formed part of the first simultaneous census of the British Empire.

The following table shows the total population recorded at each census conducted prior to 1891.

POPULATION(a), CENSUSES IN AUSTRALIA, 1828 TO 1886

| Date | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|-------------------|-----------|---|-----------|---------|--------|---------|----------|--------|-----------|
| 1828- November | . 36,598 | | | | | | | | |
| 1833- 2 September | . 60,794 | | | | | | | | |
| 1836- 2 September | 77,096 | | | | | | | | |
| 1841- 2 March . | . 130,856 | | | | | | | | |
| 31 December | | | | | | 51,450 | | | |
| | | | | 17,366 | | | | | |
| 1846-26 February | | | | 22,390 | | | | | |
| 2 March . | . 189,609 | | | · | | | | | |
| 1847-31 December | | | | | | 67,313 | | | |
| 1848-10 October. | | | | | 4,622 | ٠ | | | |
| 1851- 1 January. | | | | 63,700 | · | | | | |
| 1 March . | 268,344 | | | · | | 70,130 | | | |
| 1854–26 April . | | (b)234,298 | | | | ٠ | | | |
| 30 September | | • | | | 11,743 | | | | |
| 1855-31 March . | | | | 85,821 | · | | | | |
| 1856- 1 March . | 269,722 | | | ٠., | | | | | |
| 1857-29 March . | . ' | 408,998 | | | | | | | |
| 31 March . | | · | | | | 81,492 | | | |
| 1859-31 December | | | | | 14,837 | ٠ | | | |
| 1861 7 April . | 350,860 | 538,628 | (b)30,059 | 126,830 | · | 89,977 | | | |
| 1864- 1 January. | · ' | | 61,467 | | | ٠ | | | |
| 1866-26 March . | | | | 163,452 | | | | | |
| 1868- 2 March . | | | 99,901 | · | | | | | |
| 1870- 7 February | | | | | | 99,328 | | | |
| 31 March . | | | | | 24,785 | ٠ | | | |
| 1871- 2 April . | 502,998 | 730,198 | | 185,626 | · | | | | |
| 1 September | | , | 120,104 | · | | | | | |
| 1876-26 March . | | | | 213,271 | | | | | |
| 1 May . | | | 173,283 | , | | | | | |
| 1881- 3 April . | 749,825 | 861,566 | 213,525 | 276,414 | 29,708 | 115,705 | (c)3,451 | | 2,250,194 |
| 1886- 1 May . | | | 322,853 | | | , | (-,-, | | |

⁽a) Excludes full-blood Aborigines. (b) Previously included with New South Wales. (c) Included with South Australia for the censuses of 1866, 1871 and 1876. Actually Northern Territory was not transferred to the Commonwealth until 1 January 1911.

Australia-wide censuses

State and Territory populations recorded at the Australia-wide censuses taken over the period 1881 to 1971 are shown in the following table. The figures relate to the political boundaries of the several States (or Colonies) and Territories as they existed at the date of each census, except that the Northern Territory has been shown separately from South Australia for the censuses prior to its transfer from that State. The years of formation of the separate Colonies and transfer of the Territories are shown in the chapter Discovery, Colonisation and Federation of Australia (page 6).

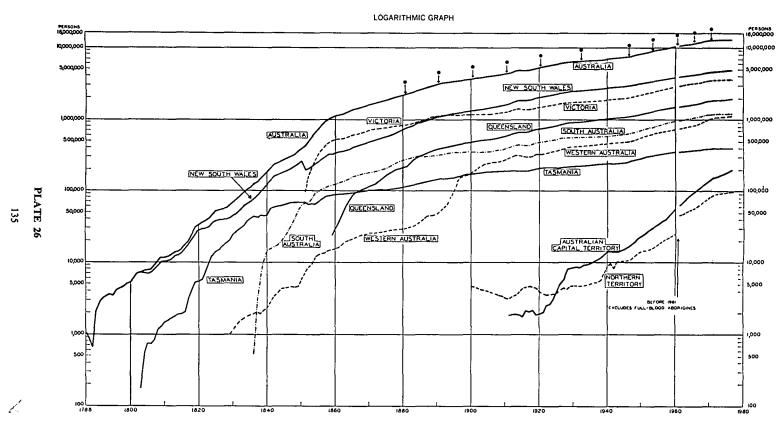
At censuses up to 1966, in conformity with Section 127 of the Constitution, Aborigines were excluded from the published population. In 1967 the Constitution was altered to remove this provision, and the 1971 Census therefore includes Aborigines. In order to provide comparability between recent censuses, the 1961 and 1966 population in the following tables has been amended to include Aborigines.

POPULATION, BY SEX: AUSTRALIAN CENSUSES, 1881 TO 1971

| Census | | N.S.W. | Vic. | Qid | S.A. | W.A. | Tas. | N.T. | A.C.T.(a) | Aust |
|-----------------|---|-----------|-----------|---------|---------|---------|---------|--------|-----------|-----------|
| | | | | | MALES | | | | | |
| 3 April 1881 | _ | 410.211 | 451,623 | 125,325 | 146,183 | 17,062 | 61,162 | 3,347 | | 1,214,913 |
| 5 April 1891 | | 609,666 | 598,222 | 223,779 | 162,241 | 29,807 | 77,560 | 4,560 | •• | 1,705,835 |
| 31 March 1901 | | 710,005 | 603,720 | 277,003 | 180,485 | 112,875 | 89,624 | 4,216 | | 1,977,928 |
| 3 April 1911 | | 857,698 | 655,591 | 329,506 | 207,358 | 161,565 | 97,591 | 2,734 | 992 | 2,313,035 |
| 4 April 1921 | | 1,071,501 | 754,724 | 398,969 | 248,267 | 177,278 | 107,743 | 2,821 | 1,567 | 2,762,870 |
| 30 June 1933 | | 1,318,471 | 903,244 | 497,217 | 290,962 | 233,937 | 115,097 | 3,378 | 4,805 | 3,367,111 |
| 30 June 1947 | | 1,492,211 | 1.013,867 | 567,471 | 320,031 | 258,076 | 129,244 | 7,378 | 9,092 | 3,797,370 |
| 30 June 1954 | | 1,720,860 | 1,231,099 | 676,252 | 403,903 | 330,358 | 157,129 | 10,288 | 16,229 | 4,546,118 |
| 30 June 1961(b) | | 1,973,700 | 1,474,536 | 779,265 | 491,406 | 380,740 | 177,628 | 25,046 | 30,858 | 5,333,179 |
| 30 June 1966(b) | | 2,126,652 | 1,614,240 | 849,390 | 550,196 | 432,569 | 187,391 | 31,159 | 49,991 | 5,841,588 |
| 30 June 1971(b) | | 2,307,210 | 1,750,061 | 921,665 | 586,051 | 529,066 | 196,442 | 48,627 | 73,589 | 6,412,711 |

For footnotes see end of table.

POPULATION OF AUSTRALIA, 1788 TO 1975



NOTE, THE VERTICAL SCALE IS LOGARITHMIC, AND THE CURVES RISE AND FALL ACCORDING 10 THE RATE OF INCREASE OR DECREASE; ACTUAL NUMBERS ARE INDICATED BY THE SCALE

*AUSTRALIAN CENSUS

POPULATION

POPULATION, BY SEX: AUSTRALIAN CENSUSES, 1881 TO 1971-continued

| Census | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T.(a) | Aust. |
|---|---|---|---|---|---|---|--|--|--|
| | | | | FEMALE | ES | | | | |
| 3 April 1881 . 5 April 1891 . 31 March 1901 . 3 April 1911 . 4 April 1921 . 30 June 1933 . 30 June 1947 . 30 June 1954 . 30 June 1966(b) . 30 June 1971(b) . 30 June 1971(b) . | 339,614 517,471 644,841 789,036 1,028,870 1,282,376 1,492,627 1,702,669 1,944,801 2,111,249 2,293,970 | 409,943 541,866 597,350 659,960 776,556 917,017 1,040,834 1,221,242 1,455,830 1,605,977 1,752,290 | 88,200 169,939 221,126 276,307 357,003 450,317 538,944 642,007 748,249 824,934 905,400 | 130,231 153,292 177,861 201,200 246,893 289,987 326,042 393,191 480,081 544,788 587,656 | 12,646 19,975 71,249 120,549 155,454 204,915 244,404 309,413 366,010 415,531 501,403 | 54,543 69,107 82,851 93,620 106,037 112,502 127,834 151,623 172,712 184,045 193,971 | 104 338 595 576 1,046 1,472 3,490 6,181 19,435 25,345 37,763 | 722 1,005 4,142 7,813 14,086 27,970 46,041 70,474 | 1,035,281 1,471,988 1,795,87: 2,141,97 2,672,86 3,262,728 3,781,988 4,440,41 5,215,088 6,342,92 |
| | | | | PERSON | NS | | | | |
| 3 April 1881 . 5 April 1891 . 31 March 1991 . 3 April 1911 . 4 April 1921 . 30 June 1933 . 30 June 1947 . 30 June 1961(b) . 30 June 1961(b) . 30 June 1961(b) . 30 June 1971(b) . | 749,825 1,127,137 1,354,846 1,646,734 2,100,371 2,600,847 2,984,838 3,423,529 3,918,501 4,237,901 4,601,180 | 861,566 1,140,088 1,201,070 1,315,551 1,531,280 1,820,261 2,054,701 2,452,341 2,930,366 3,220,217 3,502,351 | 213,525 393,718 498,129 605,813 755,972 947,534 1,106,415 1,318,259 1,527,514 1,674,324 1,827,065 | 276,414 315,533 358,346 408,558 495,160 580,949 646,073 797,094 971,487 1,094,984 1,173,707 | 29,708 49,782 184,124 282,114 332,732 438,852 502,480 639,771 746,750 848,100 1,030,469 | 115,705 146,667 172,475 191,211 213,780 227,599 257,078 308,752 350,340 371,436 390,413 | 3,451 4,898 4,811 3,310 3,867 4,850 10,868 16,469 44,481 56,504 86,390 | 1,714 2,572 8,947 16,905 30,315 58,828 96,032 144,063 | 2,250,19 3,177,82 3,773,80 4,455,00 5,435,73 6,629,83 8,986,53 10,548,26 11,599,49 12,755,63 |

⁽a) Part of New South Wales before 1911.

Increase since 1901 census

POPULATION: INTERCENSAL INCREASES, 1901 TO 1971

| State or Territory | 1901-1911 (10 years) | 1911–1921 (10 years) | 1921–1933 (12½ years) | 1933-1947 (14 years) | 1947–1954 (7 years) | 1954–1961 (7 years) | 1961-1966 (a) (5 years) | 1966–1971 (a) (5 years) |
|--|---|--|---|--|--|---|---|--|
| | | | NUMER | ICAL INC | REASE | | | |
| N.S.W.(b) . Vic | 293,602 114,481 107,684 50,212 97,990 18,736 -1,501 | 453,637 215,729 150,159 86,602 50,618 22,569 557 858 980,729 | 500,476 288,981 191,562 85,789 106,120 13,819 983 6,375 1,194,105 | 383,991 224,440 158,881 65,124 63,628 29,479 6,018 7,958 949,519 | 438,691 397,640 211,844 151,021 137,291 51,674 5,601 13,410 | 493,484 477,772 200,569 172,246 96,858 41,588 10,626 28,513 1,521,656 | 319,400 289,851 146,810 123,497 101,350 21,096 12,023 37,204 | 363,279 282,134 152,741 78,723 182,369 18,977 29,886 48,031 |
| | AV | ERAGE A | NNUAL R | ATE OF I | NCREASE- | -PER CEN | T | |
| N.S.W.(b) . Vic Qld S.A W.A Tas N.T A.C.T.(c) . | 1.97 0.91 1.98 1.32 4.36 1.04 —3.67 | 2.46 1.53 2.24 1.94 1.66 1.12 1.57 4.14 | 1.76 1 42 1.86 1.31 2.29 0.51 1.87 10.71 | 0.99 0.87 1.11 0.76 0.97 0.87 5.93 4.65 | 1.98 2.56 2.53 3.05 3.51 2.65 6.12 8.70 | 1.94 2.58 2.04 2.83 2.03 1.82 7.37 9.93 | 1.58 1.90 1.85 2.42 2.58 1.18 4.90 10.30 | 1.66 1.69 1.76 1.40 3.97 1.00 8.86 8.45 |

⁽a) Includes Aborigines, before 1911.

⁽b) Includes Aborigines.

⁽b) Includes Australian Capital Territory before 1911.

⁽c) Part of New South Wales

Minus sign (-) denotes decrease.

Population estimates

The estimated population for Australia as a whole takes account of natural increase and net overseas migration since the latest census. The population in each State and Territory is estimated by adding to the population ascertained at the census the recorded natural increase and the net gain from overseas migration for that State or Territory; gains and corresponding losses that result from movements between States and Territories are also taken into account in so far as they are recorded as transfers of residence under child endowment procedures or Federal electoral procedures or are indicated by the results of any special count. As records of migration by State or Territory are not complete, the estimated State and Territory populations so derived are approximate.

Estimates carried forward in this way eventually reach the point when another census is taken, and the numbers so ascertained supersede those resulting from the estimates. In the light of the census results the estimates for the newly completed intercensal period are revised to adjust for the differences between the new census result and the population at the census date estimated on the basis of the previous census. This is to bring intercensal estimates into line with the two census results and thus effect adjustment for unrecorded or inaccurately recorded movement of population in the intercensal period. Such a revision is made when the preliminary (field count) results of a census become available. Further revision may be necessary when the final results of a census become available. The final results of the Census of Population and Housing of 30 June 1971 have been taken into account in the population estimates for dates subsequent to the Census of 30 June 1966.

Final revised estimates become the permanent population estimates. A mean population for twelve month periods is calculated by the method described on page 141. As populations at specific dates are used in these calculations, consequential revisions are made to mean populations when estimates for specific dates are revised as described above.

The method used for estimating State and Territory populations, as described above, is different from that used prior to June 1961 (for particulars see Year Book No. 52, page 191). Population estimates subsequent to the 1961 Census are based on a method which excludes holiday, business or other similar short-term movements between States and Territories since the census. As a consequence, marked quarterly seasonal movements in some States due to interstate holiday movements are reflected in population figures prior to 1961 but not for subsequent years. This has some effect on the continuity of the series of mean population figures and should be borne in mind when making calculations which use mean populations as a basis (see page 141). Since June 1961 such movements affect the estimates only in so far as people who were on holiday or other short-term interstate travel at the time of the Census are counted in the population of the State or Territory where they spent Census night. However, there are seasonal features in the movement of the populations of States and Territories due to movements of visitors from overseas and of Australians travelling overseas for holiday, business or other similar short-term periods.

Growth of population

ESTIMATED POPULATION(a): DECEMBER, 1950 TO 1975

| Aust | A.C.T. | N.T. | Tas. | W.A. | S.A. | Qld | Vic. | N.S.W. | с. | 31 De |
|-----------|---------|-----------|---------|---------|---------|-----------|-----------|-----------|----|-------|
| | | | | LES | MAI | | | | | |
| 4,191,44; | 13,021 | 9,414 | 147,103 | 294,758 | 364,705 | 620,329 | 1,114,497 | 1,627,618 | : | 1950 |
| 4,713,81 | 17,615 | 11,149 | 165,356 | 343,838 | 423,042 | 696,544 | 1,281,891 | 1,774,382 | | 1955 |
| 5,253,07; | 29,140 | 14,785 | 180,511 | 372,665 | 483,802 | 766,448 | 1,453,815 | 1,951,907 | | 1960 |
| 5,793.629 | 48,333 | 30,632 | 186,483 | 427,330 | 544,257 | 841,926 | 1,602,058 | 2,112,610 | | 1965 |
| 6,364,87 | 70,341 | 46,561 | 196,363 | 520,174 | 584,357 | 914,631 | 1,739,916 | 2,292,534 | | 1970 |
| 6,484.396 | 77,113 | 49,525 | 197,444 | 537,781 | 591,668 | 933,944 | 1,766,582 | 2,330,339 | : | 1971 |
| 6,570,254 | 83,578 | 51,019 | 198,461 | 544,918 | 596,101 | 956,480 | 1,787,949 | 2,351,748 | | 1972 |
| 6,655 65 | 89,740 | 53,172 | 199,849 | 554,342 | 603,182 | 980,420 | 1,804,333 | 2,370,619 | | 1973 |
| 6,764,732 | 95,060 | (b)40,393 | 202,509 | 570,285 | 617,659 | 1,004,856 | 1,832,171 | 2,401,799 | | 1974 |
| 6,817,820 | 102,282 | 51,930 | 204,482 | 579,870 | 618,223 | 1,013,124 | 1,840,408 | 2,407,501 | | 1975 |

POPULATION

ESTIMATED POPULATION(a): DECEMBER, 1950 TO 1975-continued

| 31 Dec. | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|------------|
| | | | | FEM. | ALES | | | | |
| 1950 . | 1,613,439 | 1,122,685 | 585,089 | 358,138 | 277,891 | 143,230 | 5,006 | 10,558 | 4,116 036 |
| 1955 . | 1,752,152 | 1,264,441 | 662,314 | 411,619 | 324,771 | 159,563 | 6,803 | 16,345 | 4,598,008 |
| 1960 . | 1,925,354 | 1,434,475 | 735,838 | 473,220 | 358,368 | 175,458 | 10,002 | 26,132 | 5,138,847 |
| 1965 . | 2,098,439 | 1,593,802 | 817,497 | 538,701 | 410.918 | 183,125 | 24,832 | 44,465 | 5,711,779 |
| 1970 . | 2,281,201 | 1,742,115 | 898,153 | 585,873 | 493,878 | 193,890 | 36,261 | 67,221 | 6,298,592 |
| 1971 . | 2,321,149 | 1,770,953 | 918.376 | 593,827 | 511,116 | 195,380 | 39,369 | 73,675 | 6,423,845 |
| 1972 . | 2,345,483 | 1,793,068 | 942,152 | 600,440 | 520,845 | 197,091 | 42,336 | 79,627 | 6,521,042 |
| 1973 . | 2,367,498 | 1,811,487 | 966,100 | 607,952 | 530,057 | 199,246 | 44,913 | 85,652 | 6,612,905 |
| 1974 . | 2,401,352 | 1,837,256 | 988,896 | 621,405 | 548,065 | 202,472 | (b)29,583 | 91,266 | 6,720,295 |
| 1975 . | 2,411,612 | 1,846,337 | 999,233 | 621,140 | 557,514 | 204,451 | 43,929 | 98,888 | 6,783,104 |
| | | | | PER | SONS | | | | |
| 1950 . | 3,241,057 | 2,237,182 | 1,205,418 | 722,843 | 572,649 | 290,333 | 14,420 | 23,579 | 8,307,48 |
| 1955 . | 3,526,534 | 2,546,332 | 1,358,858 | 834,661 | 668,609 | 324,919 | 17,952 | 33,960 | 9,311,82 |
| 1960 . | 3,877,261 | 2,888,290 | 1,502,286 | 957,022 | 731,033 | 355,969 | 24,787 | 55,272 | 10,391,92 |
| 1965 . | 4,211,049 | 3,195,860 | 1,659,423 | 1,082,958 | 838,248 | 369,608 | 55,464 | 92,798 | 11,505,408 |
| 1970 . | 4,573,735 | 3,482,031 | 1,812,784 | 1,170,230 | 1,014,052 | 390,253 | 82,822 | 137,562 | 12,663,469 |
| 1971 . | 4,651,488 | 3,537,535 | 1,852,320 | 1,185,495 | 1,048,897 | 392,824 | 88,894 | 150,788 | 12,908,24 |
| 1972 . | 4,697,231 | 3,581,017 | 1,898,632 | 1,196,541 | 1,065,763 | 395,552 | 93,355 | 163,205 | 13,091,296 |
| 1973 . | 4,738,117 | 3,615,820 | 1,946,520 | 1,211,134 | 1,084,399 | 399,095 | 98,085 | 175,392 | 13,268,56 |
| 1974 . | 4,803,151 | 3,669,427 | 1,993,752 | 1,239,064 | 1,118,350 | 404,981 | (b)69,976 | 186,326 | 13,485,02 |
| 1975 . | 4,819,113 | 3,686,745 | 2,012,357 | 1,239,363 | 1,137,384 | 408,933 | 95,859 | 201,170 | 13,600,92 |

⁽a) Excludes full-blood Aborigines before 1961. The final results of the Census of 30 June 1971 have been taken into account in the preparation of estimates for dates after the Census of 30 June 1966. See text page 137. (b) Decrease due to effect of cyclone 'Tracy' on Darwin population.

The estimated population at 31 December each year from 1788 to 1946 is shown in *Demography*, Bulletin No. 67, 1949, and for the period 1901–1971 in *Demography*, Bulletin No. 87 (see also Statistical Summary in this Year Book). A graph illustrating the growth of the population of Australia and of each State and Territory appears on plate 26, page 135.

Proportions of area and of population, density and masculinity

PROPORTIONS OF AREA AND OF POPULATION: DENSITY AND MASCULINITY OF POPULATION: 31 DECEMBER 1975

| | | | | | Proportion of | | Proportion of population, 31 December 1975 (per cent) | | | 1.4 |
|--------------------|----|---------|--|---|------------------------|--------|--|---------|------------|---------------------|
| State or Territory | | | | | total area per cent | Males | Females | Persons | Density(a) | Mascu- linity(b) |
| New South Wales | | | | | 10.43 | 35.31 | 35.55 | 35.43 | 6.01 | 99.83 |
| Victoria | | | | | 2.96 | 26.99 | 27.22 | 27.11 | 16.20 | 99.68 |
| Queensland . | | | | | 22.48 | 14.86 | 14.73 | 14.80 | 1.17 | 101.39 |
| South Australia | | | | | 12.81 | 9.07 | 9.16 | 9.11 | 1.26 | 99.53 |
| Western Australia | | | | | 32.87 | 8.51 | 8.22 | 8.36 | 0.45 | 104.01 |
| Tasmania . | | | | | 0.88 | 3.00 | 3.01 | 3.01 | 6.03 | 100.02 |
| Northern Territory | , | | | | 17.52 | 0.76 | 0.65 | 0.70 | 0.07 | 118.21 |
| Australian Capital | Te | rritory | | • | 0.03 | 1.48 | 1.46 | 1.48 | 83.82 | 103.43 |
| Australia | | | | | 100.00 | 100.00 | 100.00 | 100.00 | 1.77 | 100.51 |

⁽a) Number of persons per square kilometre. (b) Number of males per 100 females. NOTE, Additional information about density and masculinity appears later in this chapter,

Elements of increase

The 'total increase' of the population is obtained by combining 'natural increase', i.e. the excess of births over deaths, with 'net migration', i.e. the excess of arrivals over departures. Comparison of the total increase so obtained with that derived by subtracting the population recorded at one census from that recorded at the next census reveals differences which are attributable partly to differences in the coverage of the census enumerations, and partly to deficiencies in the records of the elements of increase.

In the following table figures for increase in total population include, in addition to the recorded natural increase and net overseas migration gain, adjustments to make the series of increases agree with total intercensal increases revealed by successive censuses (up to the Census of 30 June 1971). The adjustment reflects the combined net error in the recording of births, deaths and migration during the five year period and in the census enumerations.

POPULATION: ELEMENTS OF INCREASE, AUSTRALIA, 1951 TO 1975

| | | | Natural | Net overseas | Increase in | Increase in total population(c) | | | | |
|---------|--------|-----|-----------------|----------------------|-------------|---------------------------------|-----------|--|--|--|
| Period | Period | | increase (a) | migration gain(b) | Males | Females | Persons | | | |
| 1951–55 | | | 599,702 | . 413,824 | 522,372 | 481,972 | 1.004.344 | | | |
| 1956–60 | | • | 679,857 | 405,022 | 539,256 | 540,839 | 1,080,095 | | | |
| 1961-65 | | | 690,294 | 399,888 | 519,623 | 553,784 | 1,073,407 | | | |
| 1966-70 | | • . | 665,310 | 543,808 | 571,248 | 586,813 | 1,158,061 | | | |
| 1971-75 | | | 711,135 | 231,865 | 452,945 | 484,510 | 937,455 | | | |
| 1971 . | | | 165,712 | 84,605 | 119,519 | 125,253 | 244,772 | | | |
| 1972 . | | | 155,209 | 27,846 | 85,859 | 97,196 | 183,055 | | | |
| 1973 . | | | 136,848 | 40,418 | 85,403 | 91,863 | 177,266 | | | |
| 1974 . | | | 129,344 | 87,121 | 109,075 | 107,390 | 216,465 | | | |
| 1975 . | | | 124,022 | -8,125 | 53,089 | 62,808 | 115,897 | | | |

⁽a) Excess of births registered over deaths registered. Excludes full-blood Aborigines before 1961. (b) Excess of recorded overseas arrivals over recorded overseas departures. Minus sign (-) denotes excess of departures over arrivals. (c) Includes adjustments to make the series of recorded annual increases agree with the total intercensal increases revealed by successive census results. Excludes full-blood Aborigines before 1961.

Rate of population growth

In the following two tables natural increase refers to the excess of births over deaths, net migration refers to excess of overseas arrivals over departures (excluding overseas movement of defence personnel for the period September 1939 to June 1947) and total increase is the sum of natural increase and net migration together with adjustments to make the series of increases agree with total intercensal increases revealed by successive census results (up to the Census of 30 June 1971).

Average annual rates of population growth for periods greater than one year are calculated on the compound interest principle. If P_0 and P_t are populations at the beginning and end of a t-year period, and r is a rate, then $P_t = P_0 (1 + r)^t$. The average annual percentage rate of population growth is thus

$$100 \left(\sqrt[t]{\frac{\overline{P_t}}{\overline{P_0}}} - 1 \right)$$

The average annual rate of growth is sometimes split into percentage growth components arising from natural increase and net migration. This is done by multiplying the rate of growth by the proportion of natural increase or net migration to total population increase for the period. Differences between the sum of the rates of natural increase and of net migration and the rate of total increase are due to the intercensal adjustment.

Rates of natural increase and net migration are more conventionally shown as rates per 1,000 of mean population. Figures prepared on this basis are shown in the table on page 141. Crude birth and death rates, also calculated as rates per 1,000 of mean population, are shown in Chapter 8 (see pages 181 and 192).

POPULATION: ANNUAL RATE OF GROWTH, AUSTRALIA 1951 TO 1975

(Per cent)

| Period | | | | Natural increase(a) | Net migration | Total increase(a) |
|-------------|------|-------|---|------------------------|------------------|----------------------|
| Average an | nual | rate- | | | | |
| 1951-55 | | | | 1.38 | 0.95 | 2.31 |
| 195660 | | | | 1.40 | 0.83 | 2.22 |
| | | | | | | |
| 1961-65 | | | | 1.27 | 0.74 | 1.98 |
| 1966-70 | | | | 1.11 | 0.91 | 1.94 |
| 1971–75 | | | | 1.12 | 0.36 | 1.48 |
| Annual rate | | | | | | |
| 1971 | | | | 1.31 | 0.67 | 1.93 |
| 1972 | | | | 1.20 | 0.22 | 1.42 |
| 1973 | | | | 1.05 | 0.31 | 1.35 |
| 1974 | | | Ċ | 0.97 | 0.66 | 1.63 |
| 1975 | | | | 0.92 | -0.06 | 0.86 |

⁽a) Excludes full-blood Aborigines before 1961.

The average annual rate of population growth during the present century has been 1.73 per cent, but the results from year to year have deviated widely from this figure. In the following table the period 1 January 1901 to 31 December 1975 has been arranged into certain defined groups of years according to the occurrence of influences markedly affecting the growth of population.

POPULATION(a): PERIODIC RATES OF GROWTH, AUSTRALIA 1901 TO 1975

| Period | | | Interval (years) | Total | Average annual numerical | Average annual rate of population growth (per cent) | | | |
|--------------|---|---|---------------------|--------------------|--------------------------------|---|------------------|-------|--|
| | | | | increase ('000) | increase ('000) | Natural increase | Net migration | Total | |
| 1901 to 1913 | • | • | 13 | 1,128 | 87 | 1.55 | 0.49 | 2.04 | |
| 1914 to 1923 | | | 10 | 862 | 86 | 1.49 | 0.15 | 1.64 | |
| 1924 to 1929 | | | 6 | 680 | 113 | 1.26 | 0.62 | 1.88 | |
| 1930 to 1939 | | | 10 | 569 | 57 | 0.82 | 0.02 | 0.85 | |
| 1940 to 1946 | | | 7 | 513 | 73 | 0.98 | 0.01 | 1.01 | |
| 1947 to 1952 | | | 6 | 1,222 | 204 | 1.37 | 1.19 | 2.54 | |
| 1953 to 1961 | | | 9 | 1,862 | 207 | 1.40 | 0.79 | 2.17 | |
| 1962 to 1970 | | | 9 | 2,021 | 225 | 1.16 | 0.85 | 1.95 | |
| 1971 to 1975 | | | 5 | 937 | 187 | 1.12 | 0.36 | 1.48 | |

(a) Excludes full-blood Aborigines before 1962.

Up to 1913, the rate of natural increase was rising, and this factor, coupled with the impetus given to immigration from 1911 onwards by increased government assistance, was responsible for the comparatively high annual rate of 2.04 per cent during this period. The 1914-18 War was a dominating influence in the decade 1914-23, and its effects can be seen in the reduction of the rate from 2.04 to 1.64 per cent. From 1924 to 1929, more settled and prosperous conditions were experienced: encouraged migration was resumed on a large scale and, despite a further decline in the rate of natural increase owing to the persistent fall in the birth rate, the annual rate of growth rose to 1.88 per cent. After 1929, came the economic depression, and immigration ceased—in fact, Australia actually lost people through an excess of departures over arrivals in 1930, 1931, 1932 and 1935. The rate of natural increase also fell, and the annual rate of growth of the population fell to 0.85 per cent. With the outbreak of the 1939-45 War, Australia entered a new phase in her demographic history. The immediate effect of the war was to increase the number of marriages and to reverse the downward trend in fertility. The number of births increased each war year from 1940 to 1945, and these increases more than offset the rise in deaths due to war casualties and higher civilian death rates. As might be expected, migration over these years was negligible. The period 1947 to 1961 was marked by a continued high natural increase and a resumption of immigration, the latter resulting in very high net

gains in each of the four years 1949 to 1952. During the period 1962 to 1970 net migration has continued at the same rate as in the previous decade but there was a decline in the crude birth rate and rate of natural increase from 1962. The years since 1970 have been characterised by a decreasing rate of natural increase, due to a decline in the birth rate, and a low rate of net migration increase resulting in the lowest rate of population growth for thirty years.

Rates of population growth from 1901 are shown for each State and Territory of Australia in the bulletin, *Demography* (see also Statistical Summary in this Year Book). Estimated rates of growth of the population of Australia in comparison with those for other countries of the world for the period 1970–1973 are shown in the table on page 157.

RATES OF NATURAL INCREASE AND NET MIGRATION(a): AUSTRALIA, 1951 TO 1975

| Period | | | | Rate of natural increase(b) | Rate of net migration |
|-----------|-------|-------|--|-----------------------------------|-----------------------------|
| Average a | nnual | rate- | | | |
| 1951-55 | | | | 13.61 | 9.18 |
| 1956-60 | | | | 13.81 | 8.13 |
| 1961-65 | | | | 12.60 | 6.90 |
| 1966-70 | | | | 11.05 | 8.18 |
| 1971-75 | | | | 10.82 | 3.55 |
| Annual ra | te | | | | |
| 1971 | | | | 12.96 | 6.62 |
| 1972 | | | | 11.95 | 2.14 |
| 1973 | | | | 10.39 | 3.07 |
| 1974 | | | | 9.67 | 6.51 |
| 1975 | | | | 9.15 | -0.60 |

⁽a) Natural increase or net migration during each period per thousand of mean population for the period. (b) Excludes full-blood Aborigines before 1961.

Mean population

The mean populations given below are calculated for twelve-month periods to provide an average basis for calculations requiring allowance for the continuous change in population figures during such periods. Mean populations are used for the calculation of rates such as crude birth, death and marriage rates and per capita rates of consumption, income, etc.

The mean population for any year has been calculated by the formula:

Mean population =
$$\frac{a + 4b + 2c + 4d + e}{12}$$

where a, b, c, d, and e, respectively, are the populations at the end of the quarter immediately preceding the year and at the end of each of the four succeeding quarters; e.g. in the case of a calendar year, 31 December of the preceding year, and 31 March, 30 June, 30 September and 31 December of the year under consideration. This formula gives a close approximation to the mean of a theoretical population progressing smoothly through the five values a, b, c, d, and e.

MEAN POPULATION: CALENDAR YEARS, 1971 TO 1975

| Year ended 31 Dec.— | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------------------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|------------|
| 1971 . | 4.611.705 | 3,510,362 | 1.830.463 | 1.176.483 | 1.031.614 | 391,242 | 86,424 | 144,132 | 12,782,425 |
| 1972 . | 4,673,329 | 3.557.678 | 1.873.334 | 1,189,378 | 1.056.508 | 393.183 | 91.610 | 157.221 | 12,992,241 |
| 1973 . | 4.715.197 | 3,596,778 | 1.919.417 | 1,202,603 | 1,072,680 | 396.891 | 95.884 | 169,004 | 13,168,454 |
| 1974 . | 4,761,786 | 3,644,370 | 1.968,502 | 1,220,687 | 1,098,671 | 401.574 | 101,735 | 180,134 | 13,377,459 |
| 1975 . | 4,803,867 | 3,682,972 | 2,000,859 | 1,237,776 | 1,126,706 | 406,707 | (a)88,554 | 192,236 | 13,539,677 |

MEAN POPULATION: FINANCIAL YEARS, 1970-71 TO 1974-75

| Year ended 30 June— | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------------------------|-----------|-----------|-----------|-----------|-----------|---------|--------|---------|------------|
| 1971 . | 4,571,920 | 3,481,370 | 1,812,297 | 1,168,115 | 1,013,455 | 389,739 | 82,996 | 137,605 | 12,657.497 |
| 1972 . | 4,646,786 | 3.535.807 | 1.850,988 | 1,183,704 | 1.046.627 | 392.399 | 89,195 | 150,767 | 12,896,273 |
| 1973 . | 4,695,806 | 3,579,058 | 1,896,559 | 1,195,641 | 1,064,207 | 394,928 | 93,737 | 163,161 | 13,083,097 |
| 1974 . | 4,737,490 | 3.618.474 | 1.944.581 | 1,210,851 | 1.084.650 | 398.953 | 98.618 | 174,943 | 13,268,560 |
| 1975 . | 4,785,456 | 3,666,625 | 1,986,422 | 1,230,509 | 1,113,544 | 404,188 | 96,169 | 185,932 | 13,468,845 |

Geographic distribution of population

Criteria for the delimitation of urban boundaries

The criteria used for delimiting urban centres were determined by the Thirty-First Conference of Statisticians, October 1969, and are as follows.

At each Census of Population and Housing a boundary shall be defined in accordance with these Resolutions for each population cluster of 1,000 or more population (and, for known holiday resorts of less population, if they contain 250 or more dwellings of which at least 100 are occupied). These clusters shall be named *urban centres* and the population and dwellings enumerated in them shall be classified as urban for statistical purposes.

Resolution 3 stated that around each urban centre with a population of at least 100,000, a further boundary shall be defined, after consultation with planners, to contain the anticipated development of the urban centre and associated smaller urban centres for a period of at least twenty years. Such a boundary should delimit an area which is now, or is expected to be, socially and economically oriented towards the urban centre. It shall consist of complete local government areas if possible. This fixed boundary (as distinct from the urban boundary which is moving) will delimit an area which, for general statistical purposes, is free from the practical problems imposed by the moving boundary, but which nevertheless represents the city in a wider sense.

In delimiting urban centres with 25,000 or more population:

- (a) all contiguous census collector's districts which have a population density of 200 or more persons per square kilometre shall be included. Consequently, State, statistical division, local government area and other administrative boundaries shall be disregarded;
- (b) a collector's district which is known to contain a high proportion of holiday homes shall be classified as urban if the dwelling density is 50 dwellings per square kilometre or greater;
- (c) a collector's district consisting mainly of land used for factories, airports, small sports areas, cemeteries, hostels, institutions, prisons, military camps or certain research stations shall be classified as urban if contiguous with collector's districts which are themselves urban;
- (d) any collector's district which consists mainly of land used for large sporting areas, large parks, explosives handling and munitions areas, or holding yards associated with meatworks and abattoirs shall be classified as urban only if it is bordered on three sides by collector's districts which are themselves urban;
- (e) any area which is completely surrounded by collector's districts which are urban must itself be classified as urban:
- (f) where an urban centre of 25,000 or more population is separated from another urban centre by a gap in actual development of less than 3 kilometres (by the shortest rail or road distance), the gap shall be bridged by classifying a connecting collector's district or districts as urban, and therefore treating the urban centres as one; if the gap is 3 or more kilometres (and whether or not it is comprised mainly of reserved land or a natural barrier) the urban centres shall remain separate;
- (g) any area included in an urban centre in 1971 or thereafter under the provisions of this Resolution shall continue to be so included unless the population of the urban centre falls below 25,000, in which case this Resolution will cease to apply;
- (h) large peripheral collector's districts in growth areas shall be fragmented; and so far as the availability of visible boundary features allows, the fragments so created shall be as near square-shaped as possible and of such a size that they will contain a collector's workload when fully developed. For the purposes of delimiting urban centres such fragments shall be regarded as collector's districts.

In delimiting urban centres with less than 25,000 population:

- (a) the urban centres shall be delimited subjectively (by the inspection of aerial photographs, by field inspection and/or by consideration of any other information that is available);
- (b) all continuous urban growth is to be included (which, in small urban centres, would not necessarily occur if the density criterion were applied), together with any close but non-contiguous development which could be clearly regarded as part of the centre. However, cognisance shall be taken of Resolution 3 (see above), where appropriate, particularly in urban centres which are approaching a population of 25,000.

In selecting the boundaries for the splitting of collector's districts, cognisance shall be taken, where appropriate, of the boundaries of land-use zones:

- (a) For State capital cities, nomenclature for the area delimited by—
 - (i) the urban, and
 - (ii) the outer boundary

shall be (using Melbourne as the example)—

- (i) Urban Melbourne, and
- (ii) Melbourne Statistical Division;
- (b) In other cases where the dual boundary concept is employed, the nomenclature shall be (using Newcastle as the example)-
 - (i) Urban Newcastle, and

- (ii) Newcastle Statistical District;
- (c) In cases where only a single boundary is delineated, the nomenclature shall be (using Cairns as the example) Urban Cairns;
- (d) Where an urban centre is formed by the coalescence of two or more named localities, the urban centre shall be assigned a name agreed upon after consultation with the Deputy Commonwealth Statistician of the State concerned.

These criteria were similar to those used at the 1966 Census, the main changes being:

- (a) the elimination of the 'indentation' provision. At the 1966 Census an indented area was included within the urban centre if the distance across the 'neck' was less than one mile:
- (b) a re-interpretation of the 'enclosure' rule. At the 1966 Census land was included within the urban centre if it was completely surrounded by the urban centre itself (or in part by the sea or a wide unbridged river). In 1971, if one part of this surround was the sea or a wide unbridged river this rule was not applied.

At the 1971 Census these concepts were used to determine the urban boundaries of all those centres expected to reach 25,000 population in 1971. These were Sydney, Broken Hill, Maitland, Newcastle, Tamworth, Wagga Wagga, Gosford-Woy Woy and Wollongong in New South Wales; Albury-Wodonga, which is in both New South Wales and Victoria; Melbourne, Geelong, Ballarat and Bendigo in Victoria; Brisbane, Bundaberg, Cairns, Mackay, Rockhampton, Toowoomba and Townsville in Queensland; Gold Coast, which is in both New South Wales and Queensland; Adelaide and Whyalla in South Australia; Perth in Western Australia; Hobart and Launceston in Tasmania; Canberra, which is in both the Australian Capital Territory and New South Wales; and Darwin in the Northern Territory.

A change in nomenclature has been made with the introduction of the term major urban in place of metropolitan. At the 1966 Census, the latter covered the capital city urban areas. At the 1971 Census major urban covers population living in urban centres of 100,000 or more population. Thus in New South Wales the term covers urban population in Sydney, Newcastle, Wollongong and that part of the Municipality of Queanbeyan which is included in Urban Canberra. In Victoria it refers to the urban population in Melbourne and Geelong, and in other States the capital city urban population.

The population classified as rural at the 1971 Census comprises those persons who were not enumerated in urban centres and who were not classified as migratory. The migratory population comprises those persons who, on the night of 30 June, were travelling on board ships in Australian ports, or on board ships travelling between Australian ports, or were enumerated on long-distance trains, motor coaches, or on aircraft.

URBAN AND RURAL POPULATION(a): CENSUS 30 JUNE 1971

| Division | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Australia |
|-----------------------------|----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------|------------------------|
| | | | | PERSON | IS | · | | | |
| Major urban . Other urban . | 3,176,980 897,600 | 2,509,298 562,830 | 818,423 631,585 | 809,482 183,187 | 641,800 198,395 | 129,928 159,652 | 55,4i i | 140,864 | 8,226,775 2,688,660 |
| Total urban | 4,074,580 | 3,072,128 | 1,450,008 | 992,669 | 840,195 | 289,580 | 55,411 | 140,864 | 10,915,435 |
| Rural Migratory | 520,641 5,959 | 427,920 2,303 | 373,392 3,665 | 179,148 1,890 | 187,657 2,617 | 100,418 415 | 30,605 374 | 3,199 | 1,822,980 17,223 |
| Total . | 4,601,180 | 3,502,351 | 1,827,065 | 1,173,707 | 1,030,469 | 390,413 | 86.390 | 144,063 | 12,755,638 |
| | - | | PE | RCENTA | GES | | | | |
| | | | 44.50 | | | 22.20 | | 07.70 | |

| | • | | | | | 1,050,407 | | | | |
|----------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------|----------------|
| | | | | PER | CENTAC | GES | | | | |
| Major urban Other urban | : | 69.05 19.51 | 71.65 16.07 | 44.79 34.57 | 68.97 15.61 | 62.28 19.25 | 33.28 40.89 | 64. j 4 | 97.78 | 64.50 21.08 |
| Total urbar | 7 | 88.56 | 87.72 | 79.36 | 84.58 | 81.54 | 74.17 | 64.14 | 97.78 | 85.57 |
| Rural Migratory . | : | 11.32 0.13 | 12.22 0.07 | 20.44 0.20 | 15.26 0.16 | 18.21 0.25 | 25.72 0.11 | 35.43 0.43 | 2.22 | 14.29 0.14 |
| Total | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

⁽a) Includes Aborigines. For definition of urban, rural, etc., see explanation preceding this table.

Classification of urban centres by size

The following table classifies the urban centres in Australia into grades of size of population at the Censuses of 30 June 1966 and 1971.

A table showing the aggregate urban population at the 1961 Census of all cities and towns outside the metropolitan area of each State with 2,000 or more, and 3,000 or more, urban inhabitants was included in Year Book No. 51, page 267. A table showing similar data for the 1954 Census was included in Year Book No. 47, page 295 and one for the 1947 Census in Year Book No. 40, page 334. Comparisons between these various tables can be made only if allowance is made for changes in the status and structure of local government areas and for changes in the manner of determining urban population at each census.

URBAN CENTRES: NUMBER AND POPULATION(a) IN GROUPS OF VARIOUS SIZES AUSTRALIA, CENSUSES 1966 AND 1971

| | Census, 30 |) June 1966 | | Census, 30 June 1971 | | | | |
|-------------------------------------|-------------------------------|-------------|---|-------------------------------|------------|---|--|--|
| Population size of urban centres | Number of urban centres | Population | Percentage of Australian population | Number of urban centres | Population | Percentage of Australian population | | |
| 500,000 and over | 5 | 6,497,827 | 56.02 | 5 | 7,388,886 | 57.93 | | |
| 100,000-499,999 | 4 | 620,705 | 5.35 | 5 | 837,889 | 6.57 | | |
| 75,000- 99,999 | 1 | 92,311 | 0.80 | | · | | | |
| 50,000- 74,999 | 5 | 279,031 | 2.41 | 5 | 321,270 | 2.52 | | |
| 25,000- 49,999 | 5 | 178,108 | 1.54 | 12 | 408,751 | 3.20 | | |
| 20,000- 24,999 | 11 | 248,664 | 2.14 | 8 | 177,712 | 1.39 | | |
| 15,000- 19,999 | 17 | 286,020 | 2.47 | 16 | 276,541 | 2.17 | | |
| 10.000- 14.999 | 19 | 225,779 | 1.95 | 22 | 259,992 | 2.04 | | |
| 5,000- 9,999 | 61 | 445,982 | 3.85 | 66 | 467,184 | 3.66 | | |
| 2,500- 4,999 | 103 | 355,532 | 3.07 | 110 | 378,964 | 2.97 | | |
| 2,000- 2,499 | 50 | 110,830 | 0.96 | 52 | 115,700 | 0.91 | | |
| 1,000- 1,999 | 178 | 253,686 | 2.19 | 180 | 257,922 | 2.02 | | |
| Less than $1,000(b)$. | 27 | 18,873 | 0.16 | 38 | 24,624 | 0.19 | | |
| Total urban population | n 486 | 9,613,348 | 82.88 | 519 | 10,915,435 | 85.57 | | |
| Cumulative— | | | | | | | | |
| 500,000 and over . | 5 | 6,497,827 | 56.02 | 5 | 7,388,886 | 57.93 | | |
| 100,000 ,, ,, . | 9 | 7,118,532 | 61.37 | 10 | 8,226,775 | 64.50 | | |
| 75,000 ,, ,, . | 10 | 7,210,843 | 62.17 | 10 | 8,226,775 | 64.50 | | |
| 50,000 ,, ,, . | 15 | 7,489,874 | 64.57 | 15 | 8,548,045 | 67.01 | | |
| 25,000 ,, ,, . | 20 | 7,667,982 | 66.11 | 27 | 8,956,796 | 70.22 | | |
| 20,000 ,, ,, . | 31 | 7,916,646 | 68.25 | 35 | 9,134,508 | 71.61 | | |
| 15,000 ,, ,, . | 48 | 8,202,666 | 70.72 | 51 | 9,411,049 | 73.78 | | |
| 10,000 ,, ,, . | 67 | 8,428,445 | 72.66 | 73 | 9,671,041 | 75.82 | | |
| 5,000 ,, ,, | 128 | 8,874,427 | 76.51 | 139 | 10,138,225 | 79.48 | | |
| 2,500 ,, ,, . | 231 | 9,229,959 | 79.57 | 249 | 10,517,189 | 82.45 | | |
| 2,000 ,, ,, | 281 | 9,340,789 | 80.53 | 301 | 10,632,889 | 83.36 | | |
| 1,000 ,, ,, . | 459 | 9,594,475 | 82.72 | 481 | 10,890,811 | 85.38 | | |
| Total urban population | n 486 | 9,613,348 | 82.88 | 519 | 10,915,435 | 85.57 | | |

⁽a) Includes Aborigines.

Urban population centres

At the Census of 30 June 1966 new methods were used to define the boundaries of capital city and other urban areas for statistical purposes. These methods, and modifications made for the 1971 Census, are described on pages 142–3.

Annual post-censal population estimates are made for all local government areas. Copies of publications showing the estimated population of local government areas, statistical divisions and statistical districts can be obtained from the office of the Deputy Commonwealth Statistician in each capital city.

Post-censal estimates for the urban centres recognised at the census but not definable in terms of local government area boundaries, are available only for Tasmania. For the capital cities and for some other cities and towns the definition of urban boundaries has resulted in the urban population as delineated at the 1971 Census being significantly larger than the population within the corresponding local government area of the same name. For further details see also Bulletin 6, Population and Dwellings in Local Government Areas and Urban Centres, parts 1–9, Census of Population and Housing, 30 June 1971.

⁽b) Urban centres classified as such on grounds other than population and density.

The following table shows population in statistical divisions (for State Capital cities) and statistical districts (for other major cities—viz., Canberra, Newcastle, Wollongong and Geelong). These boundaries, which are fixed, circumscribe the area which is now, or is expected to be, socially and economically oriented towards the urban centre with a population of 100,000 or more. The statistical division and statistical district boundaries are expected to remain unchanged for a substantial number of years.

POPULATION IN STATISTICAL DIVISIONS AND STATISTICAL DISTRICTS, 1971. 1974 AND 1975

| | | | | | Populatio | | |
|----------------------------------|----------|-------------|----------|--------|-----------|-----------|-----------|
| Area(a) | State | | 1971(b) | 1974 | 1975 | | |
| Sydney Statistical Division . | <u> </u> | | <u> </u> | N.S.W. | 2,807,828 | 2,898,330 | 2,922,760 |
| Newcastle Statistical District . | | | | N.S.W. | 351.536 | 360,090 | 363,010 |
| Wollongong Statistical District | | | | N.S.W. | 199,048 | 208,550 | 211,240 |
| Melbourne Statistical Division | | | | Vic. | 2,503,450 | 2,620,400 | 2,661,400 |
| Geelong Statistical District . | | | | Vic. | 122.087 | 128,370 | 129,651 |
| Brisbane Statistical Division(c) | | | | Old | 867,784 | 940,800 | 958,800 |
| Adelaide Statistical Division . | | | | S.A. | 842,693 | 885,400 | 899,300 |
| Perth Statistical Division . | | | | W.A. | 703,199 | 760,000 | 787,300 |
| Hobart Statistical Division . | | | | Tas. | 153,216 | 161,320 | 164,010 |
| Canberra Statistical District(d) | | | | A.C.T. | 158,880 | 197,900 | 210,600 |

⁽a) The population of all component local government areas may be obtained from the relevant bulletin issued by the office of the Deputy Commonwealth Statistician of the State concerned. (b) Population at census date. (c) Includes Ipswich; the population of the City of Ipswich was 66.100 at 30 June 1974 and 67,500 at 30 June 1975. (d) Includes the City of Queanbeyan in New South Wales (18,700 at 30 June 1974 and 20,070 at 30 June 1975).

The following table shows the urban population centres exceeding 10,000 population in each State and Territory at the Census of Population and Housing, 30 June 1971 and, at 30 June 1972 to 1975.

POPULATION IN PRINCIPAL URBAN CENTRES AND RELATED LOCAL GOVERNMENT AREAS, 1971 TO 1975

(with populations of 10,000 or more at 30 June 1971)

| | | Population | at 30 June- | _ | | |
|-------------------------------------|-------|------------|-------------|-------------|----------------|--------|
| Area | | 1971(a) | 1972 | 1973 | 1974 | 1975 |
| New South Wales— | | | | | | |
| Albury (urban centre)(b) | | 27,403 | | | | |
| Albury (City) | | 28,420 | 29,220 | 29,800 | 31,350 | 32,250 |
| Armidale (City) | | 18,156 | 18,660 | 19,210 | 19,810 | 20,300 |
| Bathurst $(City)(d)$ | | 17,196 | 17,500 | 17,680 | 17,990 | 18,060 |
| Broken Hill (City) | | 29,808 | 29,310 | 28,810 | 28,310 | 28,160 |
| Budgewoi Lake (urban centre) | | 10,245 | | | | |
| Wyong (Shire) | | 32,967 | 34,770 | 36,770 | 38,700 | 40,400 |
| Cessnock-Bellbird (urban centre) . | | 16,160 | (Incl. in | Newcastle S | tatistical Dis | trict) |
| Greater Cessnock (City)(c) | | 34,321 | 34,370 | 34,460 | 34,530 | 34,730 |
| Coffs Harbour (urban centre) | | 10,088 | | | | |
| Coffs Harbour (Shire) | | 18,633 | 19,530 | 20,480 | 21,280 | 22,280 |
| Dubbo (Municipality) (d) | | 17,810 | 18,190 | 18,430 | 18,750 | 19,000 |
| Gosford-Woy Woy (urban centre) . | | 38,205 | | | | |
| Gosford (Shire) | | 56,373 | 58,970 | 61,970 | 64,970 | 67,470 |
| Goulburn (City) | | 21,606 | 21,740 | 21,810 | 21,910 | 22,160 |
| Grafton (City) | | 16,387 | 16,460 | 16,560 | 16,610 | 16,660 |
| Griffith (urban centre) | | 11,031 | | | | |
| Wade (Shire) | | 18,813 | 18,980 | 19,130 | 19,270 | 19,390 |
| Katoomba-Wentworth Falls (urban cen | tre). | 11,620 | | | | |
| Blue Mountains (City)(e) | | 18,438 | 18,790 | 19,390 | 20,090 | 20,690 |
| Kurri Kurri-Weston (urban centre) . | | 11,613 | (Incl. in | Newcastle S | tatistical Dis | trict) |
| Greater Cessnock (City) | | | See unde | r Cessnock- | -Bellbird, al | oove |
| Lismore (City) | | 20,904 | 21,100 | 21,300 | 21,550 | 21,650 |
| Lithgow (urban centre) | | 13,146 | | · | | |
| Lithgow (City) | | 12,825 | 12,800 | 12,300 | 12,830 | 12,750 |
| Maitland (urban centre) | | 24,537 | (Incl. in | Newcastle S | tatistical Dis | trict) |
| Maitland (City) | • | 31,051 | 31,650 | 32,250 | 32,750 | 33,200 |

For footnotes, see end of table.

POPULATION IN PRINCIPAL URBAN CENTRES AND RELATED LOCAL GOVERNMENT AREAS, 1971 TO 1975—continued

(with populations of 10,000 or more at 30 June 1971)

| | Population | at 30 June | _ | | |
|---|------------|-------------|------------------|------------------|-----------|
| Area | 1971(a) | 1972 | 1973 | 1974 | 1975 |
| Newcastle (urban centre) | 250,346 | (Incl. in | Newcastle S | tatistical Dis | strict) |
| Newcastle (City) | 146,009 | 146,310 | 146,460 | 146,710 | 146,900 |
| Lake Macquarie (Shire)(d) | 122,421 | 124,220 | 126,220 | 127,920 | 129,680 |
| Nowra-Bomaderry (urban centre) | 12,873 | , | , | · | , · |
| Shoalhaven (Shire) | 28,570 | 29,920 | 31,320 | 32,370 | 33,570 |
| Orange (urban centre) | 24,185 | | · | · | · |
| Orange (City) | 23,172 | 23,520 | 24,020 | 24,600 | 24,830 |
| Queanbeyan (N.S.W. portion of Canberra | , | , | • | • | • |
| urban centre) | 15,434 | | | | |
| Queanbeyan (City)(d) | 16,058 | 16,960 | 17,810 | 18,700 | 20,070 |
| Richmond-Windsor (urban centre) | 11,389 | (Incl. ir | n Sydney Sta | tistical Divis | sion) |
| Windsor (Municipality) | 15,485 | 15,890 | 16,390 | 16,840 | 17,240 |
| Sydney (urban centre) | 2,725,064 | (Incl. ir | n Sydney Sta | tistical Divi | sion) |
| Tamworth (urban centre) | 24,665 | | | | |
| Tamworth (City) | 24,092 | 24,440 | 24,790 | 25,090 | 25,360 |
| Taree (urban centre) | 11,943 | | | | |
| Taree (Municipality) | 11,493 | 11,650 | 11,810 | 11,960 | 12,160 |
| The Entrance (urban centre) (f) . | 13,728 | | | | |
| Wyong (Shire) | | See ui | nder Budgev | voi Lake, ab | ove |
| Wagga Wagga (urban centre) | 27,719 | | | | |
| Wagga Wagga (City) (d) | 28,905 | 29,510 | 30,310 | 31,160 | 32,510 |
| Wollongong (urban centre) | 186,136 | (Incl. in ' | Wollongong | Statistical D | istrict) |
| Wollongong (City) | 161,143 | 163,540 | 165,240 | 166,690 | 168,190 |
| Shellharbour (Municipality) | 31,154 | 32,360 | 33,460 | 34,660 | 35,700 |
| Victoria | | | | | |
| Ballarat (urban centre) | 58,620 | | | | |
| Ballaarat (City) and Sebastopol (Borough) | 45,046 | 44,640 | 44,360 15,550 | 44,040 16,150 | 43,870 |
| Ballarat (Shire) | 14,405 | 15,050 | 15,550 | 16,150 | 16,480 |
| Bendigo (urban centre) | 45,936 | | | | |
| Bendigo (City) and Eaglehawk (Borough)(d) | 37,390 | 37,620 | 37,780 15,320 | 38,010 15,710 | 38,190 |
| Marong and Strathfieldsaye (Shires) (d) . | 14,616 | 14,880 | 15,320 | 15,710 | 16,080 |
| Colac (urban centre) | 10,362 | | | | |
| Colac (City) | 9,679 | 9,730 | 9,740 | 9,760 | 9,793 |
| Geelong (urban centre) | 115,181 | (Incl. it | n Geelong S | tatistical Dis | trict) |
| Geelong, Geelong West and Newtown | | | | | |
| (Cities) | 46,705 | 45,720 | 44,730 | 44,750 | (g)43,212 |
| Bellarine and Corio (Shires) and South | | | | | |
| Barwon $(City)(d)(h)$ | 74,666 | 77,310 | 80,160 | 82,570 | (g)85,509 |
| Horsham (City) | 11,045 | 11,040 | 11,100 | 11,170 | 11,320 |
| Melbourne (urban centre) | | | | Statistical Di | |
| Mildura (City)(d) | 13,198 | 14,240 | 14,280 | 14,350 | 14,390 |
| Moe-Yallourn (urban centre)(i) | 20,863 | :: | | | :: |
| Moe (City) and Yallourn Works Area(d) | 18,826 | 18,600 | 18,370 | 18,020 | 17,910 |
| Morwell (urban centre) | 16,853 | | :: | | |
| Morwell (Shire)(d) | 22,443 | 22,540 | 22,640 | 22,870 | 23,020 |
| Sale (City) (d) | 10,436 | 10,640 | 10,870 | 11,370 | 11,690 |
| Shepparton (City) | 19,410 | 19,780 | 20,170 | 20,620 | 20,890 |
| Traralgon (City) | 14,666 | 14,750 | 14,870 | 14,980 | 15,020 |
| Wangaratta (City)(d) | 15,586 | 15,620 | 15,670 | 15,790 | 15,860 |
| | 18,684 | 19,010 | 19,220 | 19,510 | 19,810 |
| Werribee (urban centre) | 12,872 | (Incl. in | Melbourne | Statistical D | ivision) |
| Wodonga (urban centre) (b) | 10,528 | | :: | | |
| Wodonga (Rural City)(d) | 13,074 | 13,270 | 13,520 | 13,900 | 14,430 |
| Queensland— | | | | . | |
| Brisbane (urban centre) | 818,423 | (Incl. ir | i Brisbane S | tatistical Div | ision) |
| Bundaberg (urban centre) | 26,516 | | | | 00.400 |
| Bundaberg (City) | 27,324 | 27,650 | 28,000 | 28,500 | 29,100 |
| Cairns (urban centre) | 32,747 | | 20 | 24.555 | 25.000 |
| Cairns (City) | 30,226 | 31,250 | 32,750 | 34,350 | 35,200 |
| Gladstone (urban centre) | 15,574 | | 16 225 | | 10 000 |
| Gladstone (Town) | 15,166 | 15,750 | 16,300 | 17,500 | 19,800 |
| | | | | | |

For footnotes see end of table

POPULATION IN PRINCIPAL URBAN CENTRES AND RELATED LOCAL GOVERNMENT AREAS, 1971 TO 1975—continued

(with population of 10,000 or more at 30 June 1971)

| | | | Population | at 30 June | ? | | |
|---|------|-------|--------------|------------|---------------|----------------------------|---------|
| Area | | | 1971(a) | 1972 | 1973 | 1974 | 1975 |
| Gold Coast (urban centre)(j) . | | | 69,120 | | | | |
| Gold Coast (City) | | | 66,697 | 71,400 | 74,500 | 78,600 | 80,250 |
| Gympie (City) | | | 11,096 | 11,150 | 11,000 | 11,000 | 10,900 |
| Mackay (urban centre) | | | 28,554 | | | | |
| Mackay (City) | | | 19,148 | 19,250 | 19,600 | 20,400 | 20,550 |
| Pioneer (Shire) | | | 22,561 | 23,500 | 24,500 | 24,650 | 25,200 |
| Maryborough (urban centre) . | | | 19,916 | , | - 1,500 | , | |
| Maryborough (City) | | | 19,257 | 19,150 | 19,050 | 19,100 | 19,000 |
| Mount Isa (urban centre) | | | 25,497 | .,, | 17,000 | , | .,, |
| Mount Isa (City) | | | 26,502 | 29,000 | 31,800 | 32,500 | 32,850 |
| Rockhampton (urban centre) . | | • | 48,213 | 25,000 | 31,000 | 32,300 | 32,030 |
| Rockhampton (City) | • | • | 49,164 | 49,800 | 50,300 | 51,100 | 51,500 |
| Toowoomba (urban centre) | | • | 57,578 | 47,000 | 30,300 | 31,100 | 31,300 |
| Toowoomba (City) | • | • | 59,524 | 60,300 | 61,000 | 62,250 | 62,900 |
| | | • | | 00,300 | 01,000 | 02,230 | 02,900 |
| Townsville (urban centre) | • | • | 68,591 | 73 600 | 76 500 | 70 500 | 02 500 |
| | | • | 71,265 | 73,500 | 76,500 | 79,500 | 82,500 |
| South Australia— | | | 000 493 | (Inal in | . Adalaida 6 | President Divi | |
| Adelaide (urban centre) | | | 809,482 | • | n Adelaide s | Statistical Divi | sion) |
| Mount Gambier (urban centre) . | | | | : : | :: | | : : |
| Mount Gambier (City) | | | 17,386 | 17,350 | 17,350 | 17,600 | 17,750 |
| Port Augusta (City)(d) . | | | . 12,224 | 12,650 | 12,850 | 12,950 | 13,150 |
| Port Pirie (urban centre) | | | 15,456 | | | | |
| Port Pirie (City) | | | . 13,227 | 12,900 | 12,750 | 12,550 | 12,300 |
| Whyalla (urban centre) | | | . 32,109 | | | | |
| Whyalla (City)(d) | | | 31,570 | 32,500 | 33,250 | 33,500 | 33,800 |
| Western Australia- | | | | | | | |
| Albany (urban centre) | | | . 13,101 | | | | |
| Albany (Town) | | | . 12,482 | 12,600 | 12,400 | 12,200 | 12,250 |
| Bunbury (Town) | | | . 17,779 | 18,750 | | 18,450 | 18,550 |
| Geraldton (urban centre) . | | | 15,457 | | | | |
| Geraldton (Town) | | | . 15,118 | 15,550 | | 15,700 | 15,950 |
| Kalgoorlie-Boulder (urban centre | e) | | 20,865 | | | | |
| Kalgoorlie (Town)(d) | | • | 9,201 | 9,300 | | 9,800 | 9,500 |
| Boulder (Shire) (d) | • | • | 12,922 | 13,100 | | 11,850 | 11,750 |
| Kwinana-New Town (urban cen | | • | 10,108 | | | atistical Divisi | |
| | | | 12,029 | | | atistical Divisi | |
| Kwinana and Rockingham (Si | .: | | 23,832 | 25,300 | | | 28,000 |
| | | | | | | 20,000 atistical Divisi | |
| Perth (urban centre) | • | | . 641,800 | (Inci. | in Perin Si | atistical Divisi | on) |
| Tasmania— | | | ** *** | 20.200 | 20.460 | 30 ((0 | 21.000 |
| Burnie-Somerset (urban centre) | | | . 20,087 | 20,380 | 20,460 | 20,660 | 21,060 |
| Devonport (urban centre). | | | . 18,183 | 18,630 | 19,230 | 19,770 | 20,270 |
| Hobart (urban centre) (Incl. | in l | Hobar | | | | | |
| Statistical Division) . | | | . 129,928 | 130,980 | | 135,300 | 136,550 |
| Launceston (urban centre). | | | . 62,241 | 62,250 | 62,730 | 63,400 | 64,850 |
| Northern Territory— | | | | | | | |
| Alice Springs (Town) . | | | . 11,179 | 11,940 | (g)12,762 | 13,500 | 13,400 |
| | | | . 35,516 | | | | |
| Greater Darwin | | | . 37,060 | 39,851 | (g)42,858 | (g)46,656 | 32,144 |
| Australian Capital Territory- | | | | | | | |
| Canberra (urban centre) | | | . (1)140,864 | (Incl i | n Canberra | Statistical Dis | strict) |
| Canberra (urban centre) . Canberra (City District). | • | • | . 141,810 | | | 178,100 | 189,400 |
| Camberra (City District). | • | • | , 141,010 | 155,050 | (6).00,.10 | 1.0,.50 | , ,,,, |
| | | | | | | | |

⁽a) Population at census date. (b) Parts of the Albury-Wodonga urban centre in New South Wales and Victoria respectively. (c) Excluding that part of Greater Cessnock which lies outside the Newcastle Statistical District and which had a population of 586 at the Census of 30 June 1971. (d) For details of changes in status and area between 1 July 1971 and 30 June 1975 ree paragraph 6, page 2, Population: Principal Cities and Towns, 1971 to 1975, (4.18). (e) Excluding that part of Blue Mountains which lies inside Sydney Statistical Division. (f) Part of the Entrance urban centre (299 persons at 30 June 1971) extends into Gosford Shire. (g) Result of population count. (h) Excluding those parts of Bellarine. Corio and South Barwon Shires which lie outside the Geelong Statistical District and which had a total population of 14,100 at 30 June 1975. (i) Parts of Moe-Yallourn urban centre (2.037 persons at 30 June 1971) lie within Narracan and Morwell Shires. (j) That part of Gold Coast urban centre in Queensland. The total population of Gold Coast urban centre was 74,240 at 30 June 1971. (k) Because Rockingham urban centre lies partly inside Kwinana Shire the combined figure is given for the Kwinana and Rockingham Shires. (l) Excluding that part of Canberra urban centre in New South Wales. The total population of Canberra urban centre at 30 June 1971 was 156,298.

Principal cities of the world

The following table shows the population of the world's largest cities at the latest available date. The data refer to urban agglomerations, where available; in other cases the so-called city proper. The urban agglomeration is defined on page 23 of the United Nations Demographic Yearbook 1973, from which most of the figures in the table have been taken, as including also the suburban fringe or thickly settled territory lying outside of, but adjacent to, the city boundaries. (See also the Technical Notes on Statistical Tables and footnotes to the table in the Demographic Yearbook). International comparability is limited by different methods used in constructing the estimates, variations in national concepts of urban boundaries, and the different dates to which the statistics refer.

POPULATION OF THE WORLD'S LARGEST CITIES

| City | Country | | Year | Population(a) | City | Country | Year | Population(a) |
|------------------|------------|---|------|---------------|------------------|-----------|--------|---------------|
| | | | | (,000) | | | | (,000) |
| Tokyo | Japan. | | 1972 | 11,582 | San Francisco(b) | U.S.A. | . 1970 | 3,110 |
| New York(b)(c) | U.S.A. | | 1970 | 11,572 | Sydney . | Australia | . 1975 | (e)2,923 |
| Shanghai . | China. | | 1970 | (d)10,820 | Osaka . | Japan. | . 1972 | |
| Mexico City . | Mexico | | 1973 | 10,223 | Washington(b) | U.S.A. | . 1970 | 2,861 |
| Buenos Aires . | Argentina | | 1970 | 8,353 | Bogota | Colombia | . 1972 | 2,818 |
| Paris | France | | 1968 | 8,197 | Rome | Italy . | . 1971 | (d)2,800 |
| Peking | China. | | 1970 | (d)7,570 | Montreal . | Canada | . 1972 | 2,761 |
| Moscow | U.S.S.R. | | 1973 | 7,410 | Boston . | U.S.A. | . 1970 | 2,754 |
| London | England | | 1972 | 7,341 | Toronto . | Canada | . 1972 | 2,672 |
| Los Angeles(b) | . U.Š.A. | | 1970 | 7,032 | Santiago . | Chile . | . 1970 | 2,662 |
| Calcutta | India . | | 1971 | 7,031 | Melbourne | Australia | . 1975 | (e)2,661 |
| Chicago(b). | U.S.A. | | 1970 | 6,979 | Yokohama | Japan. | . 1972 | 2,433 |
| Bombay | India . | , | 1971 | (d)5,971 | Pittsburgh . | U.S.A. | . 1970 | 2,401 |
| Scoul | Korea | | 1970 | (d)5,433 | Manchester. | England | . 1971 | 2,387 |
| Sao Paulo | Brazil. | | 1970 | (d)5,187 | Birmingham . | England | . 1971 | 2,372 |
| Саіго | Egypt. | | 1970 | (d)4,961 | St Louis(b). | U.S.A. | . 1970 | |
| Philadelphia(b) | U.S.A. | | 1970 | 4,818 | Caracas . | Venezuela | . 1970 | |
| Djakarta . | Indonesia | | 1971 | (d)4,576 | Lahore | Pakistan | . 1972 | (d)2,148 |
| Tientsin | China. | | 1970 | (d)4,280 | Singapore . | Singapore | . 1970 | |
| Rio de Janeiro . | Brazil. | | 1970 | (d)4,252 | Baltimore . | U.S.A. | . 1970 | 2,071 |
| Detroit | U.S.A. | | 1970 | 4,200 | Nagoya . | Japan. | . 1972 | 2,065 |
| Leningrad | U.S.S.R. | | 1973 | 4,133 | Cleveland . | U.S.A. | . 1970 | 2,064 |
| Teheran | Iran . | | 1972 | (d)3,858 | West Berlin. | Germany | . 1973 | (d)(f)2,063 |
| Delhi | . India . | | 1971 | 3,647 | Budapest | Hungary | . 1972 | |
| Karachi . | . Pakistan | | 1972 | (d)3,469 | Alexandria. | Egypt. | . 1970 | |
| Madras . | | | 1971 | 3,170 | | U.S.A. | . 1970 | 1,985 |
| Lima | Peru . | | 1972 | 3,158 | Bangkok . | Thailand | . 1970 | |
| Instanbul | Turkey | | 1973 | 3,135 | Newark(c). | U.S.A. | . 1970 | |
| Madrid | Spain. | | 1970 | 3,146 | Pusan | Korea | . 1970 | 1,842 |

⁽a) Urban agglomeration, except where otherwise stated. (b) 'Standard metropolitan statistical area'. (c) The population of New York—North-Eastern New Jersey urbanised area was 16,037,395 on 1 July 1970. (d) City proper. (e) Statistical Division. (f) East Berlin, 1971, 1,086,374.

Sex distribution of the population

The number of males to each hundred females has been adopted as a measure of the 'masculinity' of the population. With the exception of some dislocation arising from the two World Wars, there was a continuous diminution of the masculinity of the population until 1945. This resulted mainly from a decline in the proportion of overseas-born in the population and in their masculinity. At the census of 1901 the overseas-born comprised 23 per cent of the population and had a masculinity of 151 per cent. By 1947 these proportions had declined to 10 per cent and 127 per cent, with a consequent decline in the masculinity of the total population. Although the proportion of overseas-born has increased since 1947, with the resumption of immigration, its masculinity has declined and there has thus been little change in the masculinity of the total population.

POPULATION(a): MASCULINITY, DECEMBER 1950 TO 1975 (Number of males per 100 females)

| 31 D | ?c.— | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1950 | | 100.88 | 99.27 | 106.02 | 101.83 | 106.07 | 102.70 | 188.05 | 123.33 | 101.83 |
| 1955 | | 101.27 | 101.38 | 105.17 | 102.78 | 105.87 | 103.63 | 163.88 | 107.77 | 102.52 |
| 1960 | | 101.38 | 101.35 | 104.16 | 102.24 | 103.99 | 102.88 | 147.82 | 111.51 | 102.22 |
| 1965 | | 100.68 | 100.52 | 102.99 | 101.03 | 103.99 | 101.83 | 123.36 | 108.70 | 101.43 |
| 1970 | | 100.50 | 99.87 | 101.83 | 99.74 | 105.32 | 101.28 | 128.41 | 104.64 | 101.05 |
| 1971 | | 100.39 | 99.75 | 101.70 | 99.64 | 105.22 | 101.06 | 125.80 | 104.67 | 100.94 |
| 1972 | | 100.27 | 99.71 | 101.52 | 99.28 | 104.62 | 100.70 | 120.51 | 104.96 | 100.75 |
| 1973 | | 100.13 | 99.61 | 101.48 | 99.22 | 104.58 | 100.30 | 118.39 | 104.77 | 100.65 |
| 1974 | | 100.02 | 99.72 | 101.61 | 99.40 | 104.05 | 100.02 | 136.54 | 104.16 | 100.66 |
| 1975 | | 99.83 | 99.68 | 101.39 | 99.53 | 104.01 | 100.02 | 118.21 | 103.43 | 100.51 |

Age distribution of the population

The next table shows the changes which have taken place in the age distribution of the population of Australia at each census since 1871.

POPULATION: PROPORTIONAL AGE DISTRIBUTION, AUSTRALIA 1871 TO 1971 (Per cent)

| | | Males | | | | Females | | | | Persons | | | |
|---------|---|----------------------|-----------------------------------|----------------------------------|-----|--|-------|----------------------------------|-----|--|-------|----------------------------|-------|
| Census | | Under 15 years | 15 years and under 65 | ears 65 and years nder and | | 15 years Under and 15 under years 65 | | 65 years and over Total | | 15 years Under and 15 under years 65 | | 65 years and over | Total |
| 1871 . | | 38.84 | 59.11 | 2.05 | 100 | 46.02 | 52.60 | 1.38 | 100 | 42.09 | 56.17 | 1.74 | 100 |
| 1881 . | | 36.43 | 60.78 | 2.79 | 100 | 41.91 | 56.04 | 2.04 | 100 | 38.95 | 58.60 | 2.44 | 100 |
| 1891 . | | 34.82 | 61.96 | 3.22 | 100 | 39.40 | 58.03 | 2.57 | 100 | 36.94 | 60.14 | 2.92 | 100 |
| 1901 . | | 33.89 | 61.78 | 4.33 | 100 | 36.52 | 59.82 | 3.66 | 100 | 35.14 | 60.85 | 4.01 | 100 |
| 1911 . | | 30.89 | 64.74 | 4.37 | 100 | 32.49 | 63.27 | 4.24 | 100 | 31.66 | 64.03 | 4.31 | 100 |
| 1921 . | | 31.67 | 63.86 | 4.46 | 100 | 31.80 | 63.83 | 4.37 | 100 | 31.73 | 63.85 | 4.42 | 100 |
| 1933 . | | 27.53 | 66.09 | 6.38 | 100 | 27.42 | 65.99 | 6.59 | 100 | 27.48 | 66.04 | 6.48 | 100 |
| 1947 . | - | 25.48 | 67.08 | 7.43 | 100 | 24.62 | 66.71 | 8.67 | 100 | 25.06 | 66.90 | 8.05 | 100 |
| 1954 . | - | 28.81 | 63.82 | 7.37 | 100 | 28.23 | 62.52 | 9.25 | 100 | 28.52 | 63.17 | 8.30 | 100 |
| 1961 . | | 30.61 | 62.16 | 7.23 | 100 | 29.85 | 60.34 | 9.82 | 100 | 30.23 | 61.26 | 8.51 | 100 |
| 1966(a) | | 29.93 | 62.98 | 7.09 | 100 | 28.92 | 61.10 | 9.99 | 100 | 29.43 | 62.05 | 8.53 | 100 |
| 1971(a) | | 29.32 | 63.71 | 6.97 | 100 | 28.21 | 62.04 | 9.75 | 100 | 28.77 | 62.88 | 8.35 | 100 |

(a) Includes full-blood Aborigines.

Estimates of the age distribution of population, based on the census distribution of ages and records of births, ages at death, and ages of migrants, are made for intercensal years. The following estimated age distribution of the Australian population at 30 June 1975 will be subject to revision when the 1976 Census results for distribution of ages become available.

POPULATION: ESTIMATED AGE DISTRIBUTION(a) AUSTRALIA, 30 JUNE 1975

| 4 | Lind 1 | | 30 June 1975 | | | | | |
|---------------------|--------|----|--------------|-----------|------------|--|--|--|
| Age lası (years) | birina | ay | Males | Females | Persons | | | |
| 0- 4 | | | 646,475 | 615,973 | 1,262,448 | | | |
| 5- 9 | | | 620,315 | 594,656 | 1,214,971 | | | |
| 10-14 | | | 643,546 | 611,847 | 1,255,393 | | | |
| 15-19 | | | 622,989 | 592,125 | 1,215,114 | | | |
| 20-24 | | | 579,348 | 558,383 | 1,137,731 | | | |
| 25-29 | | | 573,676 | 545,255 | 1,118,931 | | | |
| 30-34 | | | 472,283 | 443,966 | 916,249 | | | |
| 35-39 | | | 406,545 | 386,266 | 792,811 | | | |
| 40–44 | | | 380,123 | 358,696 | 738,819 | | | |
| 45-49 | | | 403,358 | 378,395 | 781,753 | | | |
| 50-54 | | | 377,377 | 373,222 | 750,599 | | | |
| 55-59 | | | 298,016 | 308,165 | 606,181 | | | |
| 60-64 | | | 269,623 | 286,498 | 556,121 | | | |
| 65-69 | | | 200,685 | 232,732 | 433,417 | | | |
| 70-74 | | | 139,330 | 177,470 | 316,800 | | | |
| 75–79 | | | 78,835 | 128,742 | 207,577 | | | |
| 80-84 | | | 41,263 | 82,054 | 123,317 | | | |
| 85 and (| over | | 21,780 | 52,305 | 74,085 | | | |
| Т | otal | | 6,775,567 | 6,726,750 | 13,502,317 | | | |

(a) Based on the age distribution of all persons enumerated at the Census of 30 June 1971 adjusted for mis-statement of age and on subsequent births, recorded ages at death and recorded ages of migrants.

General characteristics of the population, Censuses 1966 and 1971

Particulars of the characteristics of the population of Australia at the 1971 Census compared with the 1966 Census are shown in this section. Information from the 1971 Census for individual States and Territories is available in Bulletin No. 1 Summary of Population, Parts 1-9. Information concerning the industry, occupational status, and occupations of the population as recorded at the 1971 Census is given in the chapter Employment and Unemployment, and on dwellings in the chapter Housing and Building.

The characteristics dealt with in the following pages are: age; marital status; country of birth; period of residence in Australia of overseas-born; religion. Further details are available in a series of bulletins which were published by the Bureau (for details see Publications of the Australian Bureau of Statistics, (1.8)). All tables include particulars of full-blood Aborigines.

POPULATION: AGE (GROUPED AGES)(a), BY SEX, AUSTRALIA, CENSUSES, 1966 AND 1971

| das land bindhil | | Census, 30 | June 1966 | | Census, 30 | June 1971 | | Increase |
|--------------------------|-----------|------------|-----------|------------|---|-----------|------------|-----------|
| Age last birthde (years) | <i>ay</i> | Males | Females | Persons | Males | Females | Persons | 1966–1971 |
| 0-4 . | | 589,956 | 561,098 | 1,151,054 | 626,002 | 597,440 | 1,223,442 | 72,388 |
| 5-9. | | 599,117 | 570,833 | 1,169,950 | 625,955 | 594,300 | 1,220,255 | 50,305 |
| 10–14 . | | 559,137 | 533,071 | 1,092,208 | 628,600 | 597,755 | 1,226,355 | 134,147 |
| 15–19 . | | 539,052 | 513,487 | 1,052,539 | 567,960 | 542,236 | 1,110,196 | 57,657 |
| 20-24 . | | 438,623 | 418,936 | 857,559 | 558,166 | 538,779 | 1,096,945 | 239,386 |
| 25-29 . | | 385,961 | 363,318 | 749,279 | 480,748 | 452,779 | 933,527 | 184,248 |
| 30-34 . | | 357,216 | 333,285 | 690,501 | 412,476 | 388,657 | 801,133 | 110,632 |
| 35-39 . | | 398,828 | 368,452 | 767,280 | 380,948 | 358,888 | 739,836 | -27,444 |
| 40-44 . | | 397,822 | 378,404 | 776,226 | 407,539 | 379,976 | 787,515 | 11,289 |
| 45-49 . | | 344,171 | 335,581 | 679,752 | 399,611 | 381,913 | 781,524 | 101,772 |
| 50-54 . | | 324,659 | 318,574 | 643,233 | 332,641 | 330,295 | 662,936 | 19,703 |
| 55-59 . | | 276,763 | 267,508 | 544,271 | 301,464 | 303,971 | 605,435 | 61,164 |
| 60-64 . | | 216,203 | 220,377 | 436,580 | 243,740 | 257,804 | 501,544 | 64,964 |
| 65-69 . | | 162,119 | 195,578 | 357,697 | 183,270 | 203,493 | 386,763 | 29,066 |
| 70–74 . | | 115,582 | 161,212 | 276,794 | 123,915 | 168,735 | 292,650 | 15,856 |
| 75–79 . | | 79,813 | 116,902 | 196,715 | 76,080 | 123,687 | 199,767 | 3,052 |
| 80-84 | | 38,654 | 64,352 | 103,006 | 42,926 | 76,940 | 119,866 | 16,860 |
| 85 and over | | 17,912 | 36,942 | 54,854 | 1,151,054 626,002 597,440 1,223,442 1,169,950 625,955 594,300 1,220,255 1,092,208 628,600 597,755 1,226,355 1,052,539 567,960 542,236 1,110,196 857,559 558,166 538,779 1,096,945 749,279 480,748 452,779 933,527 690,501 412,476 388,657 801,133 767,280 380,948 358,888 739,836 776,226 407,539 379,976 787,515 679,752 399,611 381,913 781,524 643,233 332,641 330,295 662,936 544,271 301,464 303,971 605,435 44,271 301,464 303,971 605,435 436,580 243,740 257,804 501,544 357,697 183,270 203,493 386,763 276,794 123,915 168,735 292,650 196,715 76,080 123,687 199,767 103,006 42,926 76,940 119,866 54,854 20,670 45,279 65,949 | 11,095 | | |
| Total | | 5,841,588 | 5,757,910 | 11,599,498 | 6,412,711 | 6,342,927 | 12,755,638 | 1,156,140 |

(a) Recorded ages adjusted by the distribution of ages 'not stated'.
 Minus sign (-) denotes decrease.

POPULATION: MARITAL STATUS, BY SEX, AUSTRALIA, CENSUSES, 1966 AND 1971

| | | Census, 30 | June 1966 | | Census, 30 | June 1971 | | |
|---|---|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-------------------------------|----------------------------|
| Marital status | | Males | Females | Persons | Males | Females | Persons | Increase 1966-1971 |
| Never married— Under 15 years of age . 15 years of age and over . | | 1,747,696 1,252,635 | 1,664,529 902,854 | 3,412,225 2,155,489 | 1,880,557 1,327,684 | 1,789,495 943,824 | 3,670,052 2,271,508 | 257,827 116,019 |
| Total never married . | | 3,000,331 | 2,567,383 | 5,567,714 | 3,208,241 | 2,733,319 | 5,941,560 | 373,846 |
| Married | | 2,600,044 | 2,587,196 | 5,187,240 | 2,926,865 | 2,924,004 | 5,850,869 | 663,629 |
| separated(a) Divorced | : | 75,438 42,908 122,867 | 87,536 51,174 464,621 | 162,974 94,082 587,488 | 86,337 61,749 129,519 | 97,052 71,421 517,131 | 183,389 133,170 646,650 | 20,415 39,088 59,162 |
| Grand total | | 5,841,588 | 5,757,910 | 11,599,498 | 6,412,711 | 6,342,927 | 12,755,638 | 1,156,140 |

(a) Legally or otherwise.

POPULATION: COUNTRY OF BIRTH, BY SEX, AUSTRALIA, CENSUSES, 1966 AND 1971

| | Census, 30 | June 1966 | | Census, 30 | June 1971 | | |
|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|--|
| Country of birth | Males | Females | Persons | Males | Females | Persons | Increase 1966–1971 |
| Australia | 4,688,441 26,174 | 4,780,137 26,311 | 9,468,578 52,485 | 5,037,098 41,350 | 5,139,222 39,116 | 10,176,320 80,466 | 27,981 210 179.546 311 2,102 200 20,111 |
| United Kingdom and | | | | | | | |
| Republic of Ireland(a) | 474,427 | 434,237 | 908,664 | 562,869 | 525,341 | 1,088,210 | 179,546 |
| Germany | 55,799 | 52,910 | 108,709 | 56,196 | 54,615 | 110,811 | 2,102 |
| Greece | 73,936 | 66,153 | 140,089 | 83,483 | 76,717 | 160,200 | 20,111 |
| Italy | 150,138 | 117,187 | 267,325 | 159,492 | 129,984 | 289,476 | 22,151 |
| Malta | 31,028 | 24,076 | 55,104 | 29,546 | 24,135 | 53,681 | -1,423 |
| Netherlands | 55,189 | 44,360 | 99,549 | 54,846 | 44,449 | 99,295 | – 254 |
| Poland . | 36,496 | 25,145 | 61,641 | 34,753 | 24,947 | 59,700 | -1,941 |
| Yugoslavia | 44,573 | 26,704 | 71,277 | 74,695 | 55,121 | 129,816 | 58,539 |
| Other | 103,348 | 77,805 | 181,153 | 115,141 | 90,148 | 205,289 | 24,136 |
| Total Europe | 1,024,934 | 868,577 | 1,893,511 | 1,171,021 | 1,025,457 | 2,196,478 | 302,967 |
| Other countries | 102,039 | 82,885 | 184,924 | 163,242 | 139,132 | 302,374 | 117,450 |
| Total born outside | | | | | | | |
| Australia | 1,153,147 | 977,773 | 2,130,920 | 1,375,613 | 1,203,705 | 2,579,318 | 448,398 |
| Grand total | 5,841,588 | 5,757,910 | 11,599,498 | 6,412,711 | 6,342,927 | 12,755,638 | 1,156,140 |

POPULATION: OVERSEAS-BORN, BY PERIOD OF RESIDENCE IN AUSTRALIA, AND SEX CENSUSES, 1966 AND 1971

| | | | Census, 30 Ju | ne 1966 | | Census, 30 Ju | Census, 30 June 1971 | | | | |
|--------------------|-------|------|---------------|---------|-----------|---------------|----------------------|-----------|---------|--|--|
| Period of residenc | e (yc | ars) | Males | Females | Persons | Males | Females | Persons | | | |
| Under 1 . | | | 88,608 | 73,252 | 161,860 | 99,894 | 85,483 | 185,377 | 23,517 | | |
| I and under 2 | | | 65,980 | 58,361 | 124,341 | 87,636 | 77,963 | 165,599 | 41,258 | | |
| 2 ,, ,, 3 | | | 58,366 | 51,963 | 110,329 | 74,971 | 66,648 | 141,619 | 31,290 | | |
| 3 ,, ,, 4 | | | 46,104 | 41,934 | 88.038 | 54,663 | 48.706 | 103,369 | 15.331 | | |
| 4 ,, ,, 5 | | | 35,623 | 37,279 | 72,902 | 52,630 | 47.311 | 99,941 | 27.039 | | |
| 5 years and over | | | 833,170 | 693,902 | 1,527,072 | 919,986 | 794,788 | 1,714,774 | 187,702 | | |
| Not stated . | | | 25,296 | 21,082 | 46,378 | 85,833 | 82,806 | 168,639 | 122,261 | | |
| Total . | | | 1,153,147 | 977,773 | 2,130,920 | 1,375,613 | 1,203,705 | 2,579,318 | 448,398 | | |

POPULATION: RELIGIOUS DENOMINATION, BY SEX, AUSTRALIA CENSUSES, 1966 AND 1971

| | Census, 30 J | une 1966 | | Census, 30 J | une 1971 | | |
|------------------------|--------------|-----------|------------|--------------|-----------|----------------|-----------------------|
| Religious denomination | Males | Females | Persons | Males | Females | Persons | Increase 1966-1971 |
| Christian- | | | | | | | |
| Baptist | 78,443 | 87,779 | 166,222 | 82,479 | 93,490 | 175,969 | 9,747 |
| Brethren | 7,491 | 8,180 | 15,671 | 10,900 | 12,063 | 22,963 | 7,292 |
| Catholic, Roman and | • | | , | • | • | , | • |
| Catholic undefined . | 1.532,930 | 1,509,577 | 3.042.507 | 1,718,674 | 1,723,960 | 3.442.634 | 400,127 |
| Churches of Christ . | 48,566 | 54,694 | 103,260 | 44,714 | 52,709 | 97,423 | - 5,837 |
| Church of England . | 1,933,567 | 1,951,451 | 3,885,018 | 1,941,897 | 2,011,307 | 3.953.204 | 68,186 |
| Congregational | 35,933 | 40,689 | 76,622 | 31,289 | 36,870 | 68,159 | -8,463 |
| Greek and other | , | , | , | , | , | 00,.07 | •, |
| Orthodox | 135,623 | 119,877 | 255,500 | 177.324 | 161.308 | 338,632 | 83.132 |
| Jehovah's Witness | n.a. | n.a. | n.a. | 16.031 | 19,721 | 35,752 | n.a. |
| Lutheran | 91,279 | 88,554 | 179,833 | 98,316 | 98,531 | 196,847 | 17.014 |
| Methodist | 549,751 | 577,209 | 1,126,960 | 527,724 | 571,295 | 1,099,019 | - 27,941 |
| Presbyterian | 513,019 | 532,545 | 1,045,564 | 497,793 | 530,788 | 1,028,581 | -16,983 |
| Salvation Army | 27,188 | 29,497 | 56,685 | 30,823 | 35,008 | 65,831 | 9,146 |
| Seventh-day Adventist | 17,175 | 20,877 | 38,052 | 18,680 | 22,937 | 41,617 | 3,565 |
| Protestant (undefined) | 53,028 | 52,346 | 105,374 | 118,449 | 124,753 | 243,202 | 137,828 |
| Other (incl. Christian | 25,020 | 52,510 | | , | 12., | _ 13,20_ | , |
| undefined) | 64,663 | 68,481 | 133,144 | 89,254 | 91,292 | 180,546 | n.a |
| Total Christian . | 5,088,656 | 5,141,756 | 10,230,412 | 5,404,347 | 5,586,032 | 10,990,379 | 759,967 |
| Non-Christian— | | | | | | | |
| Hebrew | 31,303 | 31,972 | 63,275 | 30,619 | 31,589 | 62,208 | -1.067 |
| Muslim . | n.a. | п.а. | n.a. | 13,600 | 8,711 | 22,311 | - 1,007 n.a. |
| Other | 8,804 | 4,843 | 13,647 | 8,434 | 5,970 | 14,404 | n.a. |
| | | , | | · · | | • | |
| Total non-Christian | 40,107 | 36,815 | 76,922 | 52,653 | 46,270 | 98,92 3 | 22,001 |
| Indefinite | 19,905 | 16,645 | 36,550 | 16,755 | 12,658 | 29,413 | -7.137 |
| No religion | 61,623 | 34,517 | 96,140 | 517,360 | 338,316 | 855,676 | 759,536 |
| No reply | 631,297 | 528,177 | 1,159,474 | 421,596 | 359,651 | 781,247 | - 378,227 |
| Grand total | 5,841,588 | 5,757,910 | 11,599,498 | 6,412,711 | 6,342,927 | 12,755,638 | 1,156,140 |

Minus sign (-) denotes decrease.

The Aboriginal population of Australia

In Year Book No. 17, pages 951-61, a brief account was given of the Australian Aboriginal population, its origin, its numbers as estimated from time to time and the steps taken for its protection. On pages 914-16 of Year Book No. 22 particulars were shown for each of the States and Territories of Australia at successive periods, while a special article dealing with the estimated number and distribution of the native population at the date of first settlement of the white race in the continent appeared on pages 687-96 of Year Book No. 23.

Aborigines have been enumerated in all censuses of the Commonwealth, but the degree of coverage and information obtained has varied substantially since 1911. Since the census taken in 1933 the adequacy of the particulars obtained has improved progressively as a result of an increasing number of Aborigines coming into contact with more populated areas.

At the 1966 Census extensive arrangements were made to obtain as full a coverage of Aborigines as possible and to enumerate fully those Aborigines 'out of contact'. Throughout Australia the assistance of Aboriginal welfare bodies, mission superintendents, station owners, patrol officers, and police was sought in an effort to include all Aborigines and to obtain complete information about them, e.g. in the Northern Territory information was obtained from missions and settlements concerning Aborigines normally resident at such locations but who were absent at the time of the census, and of Aborigines resident at such locations but who normally resided elsewhere. The two sets of information were then reconciled to produce what is considered to be a fairly complete and accurate coverage of Aborigines in the Territory.

Selected characteristics

For details of certain selected characteristics derived from the 1966 Census see Year Book No. 56, pages 138-42. Details of all characteristics enumerated, together with details for States and Territories, and comparisons between the Aboriginal population and the total population, may be found in the publication *The Aboriginal Population of Australia* (2.23).

At censuses prior to the 1966 Census, the instructions relating to race were insufficient to enable respondents to classify themselves according to degree of race mixture. For example, from 1933 to 1961 persons were asked to state:

'For persons of European Race, wherever born, write "European". For non-Europeans state the race to which they belong, for example, "Aboriginal", "Chinese", "Negro", "Afghan", etc If the person is half-caste with one parent of European race, write also "H.C.", for example, "H.C Aboriginal", "H.C. Chinese", etc.'

At the 1966 Census the instructions were redesigned as follows in an endeavour to obtain precise data on race mixture and also to avoid the opprobrium attaching to the term 'half-caste':

'State each person's race. For persons of European race wherever born, write "European". Otherwise state whether Aboriginal, Chinese, Indian, Japanese, etc., as the case may be. If of more than one race give particulars, for example, ½ European—½ Aboriginal, ¾ Aboriginal—¼ Chinese, ½ European—½ Chinese.'

Investigations made by matching the replies of individuals at the 1961 and 1966 Censuses, and by comparing overall census results with data available from the State instrumentalities responsible for Aboriginal welfare, suggest that considerable doubt attaches to the validity of the replies given to the question on race at the 1966 and previous censuses.

It was concluded:

- (a) that reporting by Aborigines in the 1966 Census was insufficiently precise to differentiate persons who are 50 per cent Aboriginal from those who are more than 50 per cent Aboriginal;
- (b) that similar dissections obtained at censuses prior to the 1966 Census were similarly imprecise;
 and
- (c) that even a total of all persons who are 50 per cent or more Aboriginal may be suspect, primarily because of the inclusion of persons who are less than 50 per cent Aboriginal and described themselves simply as 'Aboriginal', but also because of persons who are 50 per cent Aboriginal stating their race as 'European'.

Nevertheless, the statistics herein, which relate to persons who have described themselves as 50 per cent or more Aboriginal or simply as 'Aboriginal', are presented subject to these limitations.

The following table shows particulars of the Aboriginal population of Australia at the Censuses of 30 June, 1954, 1961, and 1966. Because of some doubt about the accuracy of separate figures for full-blood and half-blood Aborigines as shown in previous issues of the Year Book, their separate

publication has been discontinued. Torres Strait Islanders are not included in this table, but are included in the census figures shown elsewhere in this chapter. At the 1966 Census they numbered 5,403 persons.

ABORIGINAL POPULATION(a): CENSUSES, 1954, 1961 AND 1966

| | | Census, | 1954(a) | | Census, | 1961(a) | | Census, | 1966(b) | |
|--------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| State or Territory | | Males | Females | Persons | Males | Females | Persons | Males | Females | Persons |
| New South Wales | • | 6,278 | 5,935 | 12,213 | 7,494 | 7,222 | 14,716 | 7,343 | 6.876 | 14,219 |
| Victoria | | 691 | 704 | 1,395 | 899 | 897 | 1.796 | 856 | 934 | 1,790 |
| Oueensland . | | 8,368 | 7,781 | 16,149 | 10,146 | 9,550 | 19.696 | 9,644 | 9,359 | 19,003 |
| South Australia . | | 1.675 | 1.537 | 3,212 | 2,607 | 2.277 | 4.884 | 2,914 | 2.591 | 5,505 |
| Western Australia | | 6.564 | 6,135 | 12.699 | 8,351 | 7.925 | 16.276 | 9,505 | 8.934 | 18,439 |
| Northern Territory | | 5,990 | 5,798 | 11,788 | 9,013 | 8,747 | 17,760 | 10,651 | 10,468 | 21,119 |
| Australia(c) | | 29,716 | 28,006 | 57,722 | 38,612 | 36,697 | 75,309 | 40,984 | 39,223 | 80,207 |

⁽a) Prior to the 1966 Census, Aborigines 'out of contact' were not enumerated and estimates of these were made by authorities responsible for native welfare. It is estimated that at the 1954 Census 12,956 Aborigines (of which 2,311 were estimated to be in Queensland, 1,760 in South Australia, 3,516 in Western Australia and 5,369 in the Northern Territory were not contacted by census collectors and were not included in the Census. Increasing numbers, however, were coming into contact and at the 1961 Census it is estimated that 2,000 Aborigines in Western Australia and 1,944 in the Northern Territory were not contacted by census collectors. At the 1966 Census, efforts were made to obtain complete coverage. (b) The figures relate to those persons who described themselves in the 1966 Census as being 50 per cent or more Aboriginal or simply as 'Aboriginal'. For reasons stated above, it has not been possible to differentiate between persons who are 50 per cent Aboriginal from those who are more than 50 per cent Aboriginal. (c) Includes Tasmania and the Australian Capital Territory.

1971 Census of Population and Housing

In view of the limitations on the statistics described above, an attempt was made for the 1971 Census to design a question which would obtain more meaningful data on the Aboriginal population. The advice of expert bodies approached was that such data would be obtained by asking each respondent to indicate the race to which he considered himself to belong.

In addition the repeal of Section 127 of the Constitution in 1967 removed the need for the question on racial origin to identify 'Aboriginal natives'. 'Aboriginal natives', the term used in the Constitution, was interpreted as those persons possessing more than 50 per cent Aboriginal blood.

| The question at the 1971 Cens |
|-------------------------------|
|-------------------------------|

| | | | • | | | • |
|------|----|------|----------|--------|--------|---|
| What | 15 | thic | person's | racial | Origin | , |
| | | | | | | |

| (If of mixed origin indicate the one to | which he considers himself to belong) |
|---|---------------------------------------|
| (Tiels one how only on aire one enigin | · anlu) |

| Tick (| one box only or give one origin only) |
|--------|---------------------------------------|
| | European origin |
| | Aboriginal origin |
| | Torres Strait Islander origin |
| | Other origin (give one only) |

The following table shows particulars of the Aboriginal population of Australia at the Census of 30 June 1971. The statistics for Aborigines are not on a comparable basis with those from previous Censuses (see above).

ABORIGINAL POPULATION: SECTION OF STATE, BY SEX, CENSUS 30 JUNE 1971

| | Major | Urban(a | a) | Other | Urban(a |) | Rural(| (a) | | Migrat | ory(a) | | Total | | |
|--------------------|-------|--------------|--------------|--------|--------------|--------------|--------|--------------|--------------|--------|--------------|--------------|--------|--------------|--------------|
| State or Territory | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons |
| New South Wales | 2,967 | 2,988 | 5,955 | 4,636 | 4,644 | 9,280 | 4.066 | 3,786 | 7,852 | 13 | 1 | 14 | 11,682 | 11,419 | 23,101 |
| Victoria | 1.487 | 1,412 | 2.899 | 883 | 952 | 1,835 | 479 | 437 | 916 | 6 | | 6 | 2,855 | 2,801 | 5,656 |
| Oueensland . | 1.251 | 1,354 | 2,605 | 3,482 | 3.710 | 7,192 | 7.569 | 7.041 | 14,610 | 4 | 3 | 7 | 12.306 | 12,108 | 24,414 |
| South Australia . | 834 | 887 | 1.721 | 747 | 765 | 1,512 | 2.116 | 1.791 | 3,907 | | | | 3,697 | 3,443 | 7,140 |
| Western Australia | 1,094 | 1.137 | 2.231 | 3.227 | 3,287 | 6,514 | 6.921 | 6,223 | 13,144 | 8 | 6 | 14 | 11,250 | 10.653 | 21,903 |
| Tasmania | 96 | 78 | 174 | 133 | 124 | 257 | 78 | 66 | 144 | | | | 307 | 268 | 575 |
| Northern | | | | | | | | | | | | | | | |
| Territory . | | | | 2,029 | 1.975 | 4,004 | 9,656 | 9.592 | 19,248 | 1 | | 1 | 11,686 | 11,567 | 23,253 |
| Australian Capital | | | | , | ., | ., | ,,,,, | , , <u>_</u> | •-• | - | | - | , | , | |
| Territory . | 46 | 36 | 82 | | | | 90 | 76 | 166 | | | | 136 | 112 | 248 |
| Australia . | 7,775 | 7,892 | 15,667 | 15,137 | 15,457 | 30,594 | 30,975 | 29,012 | 59,987 | 32 | 10 | 42 | 53,919 | 52,371 | 106,290 |

Projections of the population

In projecting the population, assumptions have to be made regarding future fertility, mortality and immigration. These are made in the light of past trends and expected developments.

The method chosen for these projections is similar to the method used for the current estimates of the population except that hypothetical figures of births, deaths and net migration are used instead of recorded births, deaths and net migration.

The assumptions employed in the latest set of projections, and summaries of the results, are given below. They cover the years 1976 to 2011, taking 1976 as the base year.

Fertility. Projected age specific fertility rates rise slightly from the 1976 experience until 1984 and then remain constant.

Mortality. It was assumed that the 1970-72 age specific mortality rates would be constant for the duration of the projection except that infant mortality is assumed to decline by about 2 per cent per annum.

Migration. Immigrants are assumed to have the same fertility and mortality experience as the resident Australian population. The following table shows the projected population in the absence of overseas migration after 1976, and the population that would result from net immigration at the illustrative level of 50,000 persons a year with the age-sex composition of the net permanent and long term movement of the 5-year period ended 30 June 1975.

PROJECTED POPULATION OF AUSTRALIA: 1976 TO 2011

| Includir, net immigratio at the illustrativ level of 50,00 persons a yed after 30 Jur 197 | Resulting from net immigration at the illustrative level of 50,000 persons after 30 June 1976 | Excluding migration after 30 June 1976 | | | | 30 June |
|---|--|--|------|------|---------|---------|
| 00° | ,000 | ,000 | | | | |
| 13,64 | | 13,643 | | nal) | rovisio | 1976 (p |
| 13,79 | 51 | 13,744 | | | | 1977 |
| 13,94 | 102 | 13,842 | | | | 1978 |
| 14,09 | 155 | 13,938 | | | | 1979 |
| 14,24 | 209 | 14,035 | | | | 1980 |
| 14,40 | 264 | 14,136 | | | | 1981 |
| 16,09 | 867 | 15.223 | | | | 1991 |
| 17,67 | 1,548 | 16,129 | | | | 2001 |
| 19,05 | 2,299 | 16,760 | | | | 2011 |

Population of External Territories

Ordinances of the individual External Territories under the control of Australia provide for a census of the population to be taken on the day prescribed for the taking of a census in the Commonwealth of Australia. The following table shows the population of the Territories of Christmas Island, Cocos (Keeling) Islands and Norfolk Island, at the Census of 30 June 1971 and as estimated at 30 June 1973.

POPULATION: EXTERNAL TERRITORIES, 30 JUNE 1971 AND 1973

| | Census 30 | June 1971 | į | Estimate 80 June 1973 |
|-------------------------|-----------|-----------|---------|--------------------------|
| Territory | Males | Females | Persons | Persons |
| Christmas Island . | 1,732 | 959 | 2,691 | 2,884 |
| Cocos (Keeling) Islands | 312 | 306 | 618 | 654 |
| Norfolk Island | 824 | 859 | 1,683 | 1,846 |

Further particulars concerning the Territories are given in the chapter The Territories of Australia.

International statistics of population

In the following tables the population, density, rate of growth, natural increase and infant mortality are shown in respect of all countries which had an estimated population of at least ten million persons in 1971, excepting for the group 'Oceania', which is treated in more detail. The source of these figures for all countries except Australia is the 1973 *Demographic Yearbook*, which is prepared and published by the Statistical Office of the United Nations. The tables include figures varying in reliability and accuracy, there being considerable variation in the quality of demographic statistics between countries, but this information has been shown to provide a guide as to the magnitude and trend of population movements in overseas countries.

Where the information available to the Statistical Office of the United Nations relates to only part of the population of a country, the population characteristic (e.g. rate of growth), or vital statistics rate (e.g. marriages), has been omitted from the tables, and this is indicated by a footnote.

For fuller particulars of the differences in the quality of the statistics and their reliability and for other qualifications, reference should be made to the detailed explanations contained in the *Demographic Yearbook* of the Statistical Office of the United Nations (see particularly Technical Notes on Statistical Tables and footnotes to the tables).

Population, rate of growth and density: world, continents and regions

In preparing the population figures shown below the Population Branch of the United Nations includes revisions made to the estimates from time to time as new data becomes available, for example, from a census. Adjustments for under-enumeration have also been made. Reference should be made to the description contained in the United Nations *Demographic Yearbook*, 1973 (pages 16-17), regarding the scheme of regionalisation.

POPULATION, DENSITY AND RATE OF INCREASE FOR THE WORLD AND CONTINENTS—SELECTED YEARS

(Source: United Nations Demographic Yearbook, 1973)

| | Populatio | on | | | | | | | Density |
|----------------------------|-----------|--------------|-----------------|--------------|-------------|-------|--|-----------|--|
| Carrierant and accion | | _ | _ - | tion (millio | ns) 1972 | 1072 | Annual rate of increase 1965-73 (per cent) | | pensuy (persons per square (dometre) 1973 |
| Continent and region | 1950 | 1960 | 1965 | 1970 | 19/2 | 19/3 | per cent) | per cent) | |
| World total | 2,486 | 2,982 | 3,289 | 3,632 | 3,782 | 3,860 | 2.0 | 2.1 | 28 |
| Africa | 217 | 270 | 303 | 344 | 364 | 374 | 2.7 | 2.8 | 12 |
| Western Africa | 64 | 80 | 90 | 101 | 107 | 110 | 2.6 | 2.7 | 18 |
| Eastern Africa | 62 | 77 | 86 | 98 | 103 | 106 | 2.6 | 2.7 | 17 |
| Northern Africa | 51 | 65 | 75 | 87 | 92 | 95 | 3.1 | 3.2 | 11 |
| Middle Africa | 25 | 29 | 32 | 36 | 38 | 38 | 2.2 | 2.3 | 6 |
| Southern Africa . | 14 | 18 | 20 | 23 | 24 | 25 | 2.4 | 2.5 | 9 |
| America | 328 | 412 | 460 | 511 | 533 | 545 | 2.1 | 2.2 | 13 |
| Northern America | 166 | 199 | 214 | 228 | 233 | 236 | 1.2 | 1.3 | 11 |
| Latin America | 162 | 213 | 246 | 283 | 300 | 309 | 2.9 | 2.9 | 15 |
| Tropical South America | 84 | 112 | 130 | 151 | 160 | 165 | 3.0 | 3.1 | 12 |
| Middle America | 35 | 48 | 57 | 67 | 72 | 75 | 3.4 | 3.5 | 30 |
| Temperate South America | 27 | 33 | 36 | 39 | 41 | 41 | 1.8 | 1.8 | 10 |
| Caribbean | 17 | 21 | 23 | 26 | 27 | 28 | 2.3 | 2.2 | 116 |
| Asia(a) | 1,355 | 1,645 | 1,833 | 2,056 | 2,154 | 2,204 | 2.3 | 2.3 | 80 |
| East Asia | 657 | 780 | 852 | 930 | 962 | 978 | 1.7 | 1.7 | 83 |
| Mainland Region . | 536 | 640 | 700 | 765 | 792 | 806 | 1.8 | 1.7 | 72 |
| Japan | 83 | 93 | 98 | 103 | 106 | 107 | 1.1 | 1.2 | 290 |
| Other East Asia | 38 | 47 | 54 | 61 | 64 | 66 | 2.5 | 2.4 | 254 |
| South Asia | 698 | 865 | 981 | 1,126 | 1,191 | 1,225 | 2.8 | 2.9 | 77 |
| Middle South Asia . | 481 | 588 | 665 | 762 | 806 | 328 | 2.8 | 2.8 | 122 |
| South East Asia | 173 | 219 | 249 | 287 | 304 | 313 | 2.9 | 2.9 | 68 |
| South West Asia | 44 | 58 | 67 | 77 | 82 | 84 | 2.9 | 3.0 | 19 |
| Europe(a) | 392 | 425 | 445 | 462 | 469 | 472 | 0.8 | 0.7 | 96 |
| Western Europe | 122 | 135 | 143 | 149 | 151 | 151 | 0.7 | 0.6 | 152 |
| Southern Europe | 109 | 118 | 123 | 128 | 131 | 132 | 0.9 | 0.9 | 100 |
| Eastern Europe | 89 | 97 | 100 | 104 | 106 | 107 | 0.8 | 0.8 | 108 |
| Northern Europe | 72 | 76 | 79 | 81 | 82 | 82 | 0.6 | 0.6 | 50 |
| Oceania | 12.6 | 15.8 | 17.5 | 19.4 | 20.2 | 20.6 | 2.1 | 2.2 | 2 |
| Australia and New Zealand | 10.1 | 12.7 | 14.0 | 15.4 | 16.0 | 16.3 | 1.9 | 2.0 | 2 |
| Melanesia | 1.8 | 2.2 | 2.5 | 2.8 | 2.9 | 3.0 | | 2.6 | |
| Polynesia and Micronesia . | 0.7 | 0.9 | Ī. Ī | 1.2 | 1.3 | 1.3 | 3.1 | 3.2 | |
| Union of Soviet Socialist | | | | | | | | | |
| Republics | 180 | 214 | 231 | 243 | 248 | 250 | 1.0 | 1.0 | 11 |
| | | | | | | _50 | | • | |

(a) Excludes U.S.S.R. shown below.

Population, density, rate of growth, natural increase, and infant mortality of selected countries

Certain details of the population of the more populous countries within continental groups are shown in the following table. As explained above, reference should be made to the detailed comments contained in the United Nations *Demographic Yearbook*, 1973, regarding geographical units used, boundaries of areas, reliability of estimates, etc.

POPULATION, DENSITY, RATE OF INCREASE, NATURAL INCREASE AND INFANT MORTALITY—SELECTED COUNTRIES

(Source: United Nations Demographic Yearbook, 1973)

| Country | | | | | | | Population mid-year 1973 (thousands) | Density 1973 (persons per square kilometre) | Annual rate of increase 1970-73 (per cent) | Year | Natural increase (Kate per '000 popula- tion) | Infant mortality (Rate pcr '000 live births) |
|----------------------------|------|---------|---------|-------|---------|------|---|--|--|--------------------|--|--|
| Africa— | | | | | | | | | | | | |
| Nigeria . | | | | | | | 59,607 | 65 | 2.7 | 1965-70 | 24.7 | (a) |
| Arab Republic | of. | Egypt | | • | | • | 35,619 | 36 | 2.2 | 1971 | 21.7 | 103.3 |
| Ethiopia . South Africa | | • | • | • | ٠ | • | 26,076 23,724 | 21 19 | 1.9 2.8 | 1965-70 1965-70 | 20.6 23.7 | 84.2 (a) |
| Zaire . | : | : | : | : | : | : | 23,563 | ió | 2.8 | 1965-70 | 21.7 | 104 |
| Sudan . | | | | | | | 16,901 | 7 | 2.5 | 1965-70 | 30.5 | 93.6 |
| Morocco. | | | | | | | 16,309 | 37 | (a) | 1965-70 | 33.0 | 149 |
| Algeria . Tanzania, Uni | ted | Penuh | lic of | • | • | ٠ | 15,772 | 7 | 3.2 | 1965–70 | 32.2 | 86.3 |
| Tanganyika | | · · | | | | | 13,969 | 15 | 2.7 | 1957 | 21-22 | 190 |
| Zanzibar | | | | | | | 403 | 164 | 2.2 | 1970 | 26.0 | 140 |
| Kenya . | • | ٠ | | • | • | • | 12,482 | 21 | 3.6 | 1965–70 | 30.3 | 55.0 |
| North America- | _ | | | | | | | | | | | - |
| United States | | meric | a. | | | | 210,404 | 22 | 0.9 | 1973 | 5.6 | 17.6 |
| Mexico . | | | | | | : | 54,303 | 28 | 3.5 | 1965-70 | 34.3 | 60.9 |
| Canada . | • | | | | • | ٠ | 22,125 | 2 | 1.2 | 1973 | 8.3 | 16.8 |
| South America- | _ | | | | | | | | | | | |
| Brazil . | | | | | | _ | 101,707 | 12 | 2.9 | 1965-70 | 28.3 | (a) |
| Argentina | : | | • | : | ÷ | : | 24,286 | 9 | 1.5 | 1968 | 12.4 | 59.6 |
| Colombia | | | | | | | 23,209 | 20 | 3.2 | 1965-70 | 34.0 | 52.9 |
| Peru Venezuela | : | : | : | : | : | : | 14,912 11,293 | 12 12 | 3.2 2.8 | 1965-70 1965-70 | 30.7 33.1 | 65.1 49.7 |
| | | | | | | | | | | | | |
| Asia | | | | | | | | | | | | |
| China (excl. T | aiw | an Pro | vince) | • | | ٠ | 814,279 | .85 | 1.7 | 1965-70 1965-70 | 17.8 26.1 | (a) 139.0 |
| India . Indonesia | | • | • | | • | • | 574,216 124,602 | 175 84 | 2.1 (a) | 1965-70 | 28.9 | 125.0 |
| Japan . | : | : | : | : | : | | 108,346 | 29 i | 1.3 | 1973 | 12.8 | 11.7 |
| Bangladesh | | | | | | | 71,614 | 502 | (a) | (a) | (a) | (a) |
| Pakistan . | | | | | • | ٠ | 66,749 40,219 | 83 | 3.6 3.0 | 1968 1965-70 | 24.0 32.7 | 124.0 67.9 |
| Philippines Thailand. | • | • | • | • | • | • | 39,787 | 134 77 | 3.0 | 1965-70 | 32.4 | 22.5 |
| Turkey in As | ia | : | • | | ÷. | : | (a) | (a) | (a) | 1967 | 25.0 | 153.0 |
| Korea, Repul | | of. | | | | | 32,905 | 334 | 1.7 | 1965-70 | 24.6 | (a) |
| Iran . Burma . | • | • | | • | • | | 31,298 | 19 44 | 3.0 2.3 | 1965-70 1965-70 | 28.8 22.9 | (a) 195–300 |
| Democratic F | Lenu | blic of | Vietn | am | • | • | 29,560 22,481 | 142 | 2.0 | 1965-70 | 21.4 | (a) |
| Vietnam, Rep | | | | ···· | : | : | 19,367 | 111 | 1.8 | 1965-70 | 21.4 | 42.8 |
| Afghanistan | | | ٠ | ٠ | | | 18,294 | .28 | 2.3 | 1965-70 | 24.0 | (a) |
| Democratic P Sri Lanka | eopi | e's Re | public | of K | orea | | 15,087 13,249 | 125 202 | 2.8 1.9 | 1965–70 1972 | 27.6 21.8 | (a) 45.1 |
| Nepal . | | : | : | : | : | | 12,020 | 85 | (a) | 1965-70 | 21.7 | (a) |
| Еигоре— | | | | | | | | | | | | |
| Germany- | | | | | | | | | | | | |
| Federal Re | publ | ic of (| incl. W | est E | Berlin) | | 61,967 | 249 | 0.7 | 1973 | -1.6 | 20.4 |
| Democration | Re | public | of (inc | I. Ea | st Berl | lin) | 16,980 | 157 | 0.2 | 1973 | -3.1 | 16.0 17.5 |
| United Kingo | lom | • | • | • | | | 55,933 54,888 | 229 182 | 0.3 0.8 | 1973 1973 | 1.9 6.1 | 25.7 |
| France . | • | • | • | • | • | • | 52,130 | 95 | 0.9 | 1973 | 5.7 | 12.9 |
| Spain . | | | | | | | 34,857 | 69 | 1.1 | 1973 | 10.7 | 15.1 |
| Poland | | | | | | | 33,361 | 107 | 0.9 | 1972 | 9.4 | 28.5 |
| Yugoslavia Romania | ٠ | • | • | | | • | 20,956 20,828 | 82 88 | 1.0 0.9 | 1973 1973 | 9.3 8.3 | 43.3 38.2 |
| Czechoslovak | ia. | • | : | : | : | : | 14,578 | 114 | 0.9 | 1973 | 7.3 | 21.2 |
| Netherlands | | : | : | : | · | | 13,438 | 329 | 1.0 | 1973 | 6.3 | 11.6 |
| Hungary. | | • | | ٠ | • | • | 10 411 | 112 | 0.2 | 1973 | 6.2 | 33.5 |
| Oceania | | | | | | | | | | | | |
| Australia | | , | | | | | 13,132 | 2 | 1.6 | 1973 | 10.4 | 16.5 |
| New Zealand | | | | | | | 2,964 | 18 | 1.8 | 1973 | 12.0 | 16.2 |
| Papua New (| Juin | ea . | | ٠ | | • | 2,563 | 6 | 1.0 | 1965–70 | 25.0 | (a) |
| U.S.S.R.— | | | | | | | | | | | | |
| | | | | | | | | | | | | 26.3 |

⁽a) Not available or information relates to a segment of a population only.

Overseas arrivals and departures

This section contains summary statistics of total overseas arrivals and departures and detailed statistics of permanent movement. For information on passengers in other categories, see Chapter 29, Cultural Activities, Recreation and Travel.

More detailed statistics of overseas arrivals and departures, covering country of residence, country of embarkation or disembarkation, mode of travel, month of arrival or departure, etc., are shown in the tables of Section II, Overseas Arrivals and Departures, of the annual bulletin *Demography* and for 1972 and later years, in an annual mimeographed bulletin *Overseas Arrivals and Departures*. Mimeographed bulletins are also issued monthly and quarterly.

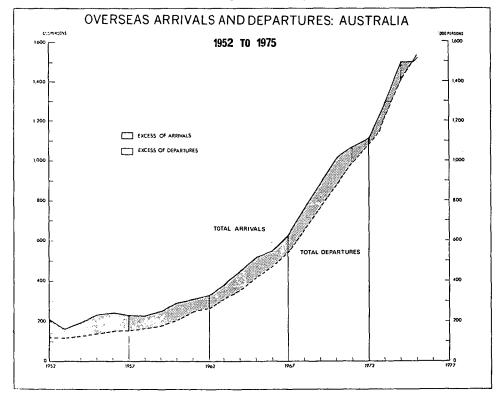
Overseas arrivals and departures since 1941

Earlier issues of the Year Book contain tables showing the increase of population by net migration from 1861 to the latest date, while information about overseas arrivals and departures for individual years from 1901 is published in the annual bulletin *Demography* (see also Statistical Summary of this Year Book and, from 1972, in the mimeographed bulletin *Overseas Arrivals and Departures* (4.23)). Australian statistics of overseas arrivals and departures exclude aircraft and ships' crews, persons on pleasure cruises commencing and finishing in Australia on ships not then engaged in regular voyages and persons who pass through on the same ship or flight or who change flights without leaving the airport's transit area. The following table shows arrivals and departures since 1941, and refers to total movement irrespective of length of stay.

OVERSEAS ARRIVALS AND DEPARTURES, BY SEX: AUSTRALIA, 1941 TO 1974

| | Total arrivals | | | | | Total dep | artures | | Excess of arrivals over departures | | | |
|------------|----------------|---|-----------|-----------|-----------|-----------|-----------|-----------|------------------------------------|---------|---------|--|
| Period | | | Males | Females | Persons | Males | Females | Persons | Males | Females | Persons | |
| 1941-45(a) | | | 35,422 | 28,503 | 63,925 | 30,097 | 26,019 | 56,116 | 5,325 | 2,484 | 7,809 | |
| 1946-50(a) | | | 398,507 | 303,413 | 701,920 | 180,779 | 168,057 | 348,836 | 217,728 | 135,356 | 353,084 | |
| 1951-55 | | | 581,300 | 446,566 | 1,027,866 | 340,819 | 273,223 | 614,042 | 240,481 | 173,343 | 413,824 | |
| 1956-60 | | | 695,445 | 568,652 | 1,264,097 | 481,235 | 377,840 | 859,075 | 214,210 | 190,812 | 405,022 | |
| 1961-65 | | | 1,107,419 | 896,215 | 2,003,634 | 906,956 | 696,790 | 1,603,746 | 200,463 | 199,425 | 399,888 | |
| 1966-70 | | | 2,299,254 | 1,592,832 | 3,892,086 | 2,007,981 | 1,340,297 | 3,348,278 | 291,273 | 252,535 | 543,808 | |
| 1971 . | | | 625.066 | 453,732 | 1,078,798 | 581,510 | 412.683 | 994,193 | 43,556 | 41,049 | 84,605 | |
| 1972 . | | Ċ | 608,730 | 501,940 | 1,110,670 | 597,765 | 485,059 | 1.082.824 | 10.965 | 16,881 | 27,846 | |
| 1973 . | | | 696,212 | 594,148 | 1,290,360 | 676,190 | 573,752 | 1,249,942 | 20,022 | 20,396 | 40,418 | |
| 1974 . | | | 809,372 | 687,157 | 1,496,529 | 762,293 | 647,115 | 1,409,408 | 47,079 | 40,042 | 87,121 | |
| 1975 . | | | 801.255 | 727,703 | 1,528,959 | 807,418 | 729,668 | 1,537,084 | -6,163 | 1,963 | -8,126 | |

(a) Excludes movements of defence personnel from September 1939 to June 1947.



Excess of arrivals over departures

The excess of total overseas arrivals over departures is one of the elements of population increase taken into account in preparing the estimated population for other than census dates (see pages 133 and 139 of this chapter). It is necessary to use statistics of total overseas arrivals and departures for this purpose, because Australian population statistics relate to the total population present in Australia at the date of the census or estimate, and not the population normally resident in Australia (which would include those temporarily overseas and exclude those temporarily visiting Australia).

EXCESS OF ARRIVALS OVER DEPARTURES, BY SEX: AGE AND MARITAL STATUS AUSTRALIA, 1973 AND 1974

| , , | 1973 | | | 1974 | | |
|--|------------------|------------|---------------|--------|---------|---------|
| Age and marital status | Males | Females | Persons | Males | Females | Persons |
| | | AG | E | | | |
| Age last birthday on arrival or departure— | | | | | | |
| 0-4 | 2,070 | 1,565 | 3,63 5 | 4,626 | 5,167 | 9,793 |
| 5–14 | 4,269 | 4,331 | 8,600 | 7,098 | 8,933 | 16,031 |
| 15–24 | 6,042 | 4,670 | 10,712 | 10,954 | 9,839 | 20,793 |
| 25–44 | 6,937 | 7,588 | 14,525 | 20,495 | 12,058 | 32,553 |
| 45–64 | 400 | 1,744 | 2,144 | 3,227 | 5,761 | 8,988 |
| 65 and over | 304 | 498 | 802 | 679 | -1,716 | -1,037 |
| Total | 20,022 | 20,396 | 40,418 | 47,079 | 40,042 | 87,121 |
| | | MARITAL ST | ratus | | | |
| Never married— | | | | | | |
| Under 15 years of age | 6,339 | 5,896 | 12,235 | 11,724 | 14,139 | 25,863 |
| 15 years of age and | | | | | | |
| over | 4,946 | 3,766 | 8,712 | 11,197 | 5,043 | 16,240 |
| Married | 7,927 | 9,615 | 17,542 | 23,697 | 18,096 | 41,793 |
| Widowed | - 130 | 440 | 310 | 513 | 1,828 | 2,341 |
| Divorced | 940 | 679 | 1,619 | -52 | 936 | 884 |
| Total | 20,022 | 20,396 | 40,418 | 47,079 | 40,042 | 87,121 |

Classification of travellers

Since 1 July 1924 overseas travellers have been classified into two principal categories, distinguishing movements for short terms from movements for longer periods (including permanently). Before 1957 these categories were classified as temporary and permanent. Thereafter the categories were entitled short-term and permanent and long-term, but the basis of classification was not changed and the figures are directly comparable for the whole period. For short-term travel, overseas visitors and Australian residents are identified separately.

Revised questions for travellers were introduced in mid-1958, and these enabled the separation, from 1 January 1959, of permanent from other long-term movements and also the identification among the permanent departures of former settlers departing. From 1 January 1974 further revisions to the questionnaire came into effect and, where they affect comparibility, they are described below.

The principal categories of overseas movement are as follows:

Permanent—consists of persons arriving with the stated intention of settling permanently in Australia (settlers), and Australian residents departing with the stated intention of residing permanently abroad; the latter include former settlers, i.e. persons who, on departure from Australia, stated that they had come to Australia to settle. Before 1974, former settlers were not so classified unless they had spent at least twelve months in Australia. The revised questionnaire has been designed to reduce the possibility of errors in classification and this distinction has now been removed.

Long-term—consists of the arrival of overseas visitors and the departure of Australian residents with the stated intention of staying (in Australia or abroad respectively) for twelve months or more; and the departure of visitors and the return of residents who have stayed (in Australia or abroad respectively) for twelve months or more. Until 1974, Australian residents were classified as long-term only if their time spent abroad included a period of twelve months in any one country. Their classification is now governed solely by their total absence from Australia.

Short-term—consists of all other movements, including the movement of Australian troops irrespective of period of stay, and U.S. troops who visited Australia on rest and recreation leave during the period October 1967 to December 1971.

This classification is based on statements made by the traveller on arrival in, or departure from, Australia. They represent the traveller's intention at that time. Many travellers subsequently change their intentions, and this must be borne in mind in interpreting the statistics.

The numbers so classified since 1 January 1946 are as follows.

OVERSEAS ARRIVALS AND DEPARTURES: CLASSIFICATION OF TRAVELLERS AUSTRALIA, 1946 TO 1974

ARRIVALS

| | Permane | nt and long-ter | rm movemen | t | Short-term | movement | | | |
|---|--|--|--|---|---|--|---|---|---|
| | Per- manent | Long-term | | Total | | Overseas vi | sitors arrivin | 8 | |
| Period | Settlers arriving | Australian residents returning | Overseas visitors arriving | permanent and long-term arrivals | Australian residents returning | In transit | Other | Total | Total arrivals |
| 1946-50 . 1951-55 . 1956-60 . 1961-65 . 1966-70 . | n.a. n.a. n.a. 575,992 804,063 | n.a. n.a. n.a. 111,288 180,741 | n.a. n.a. n.a. 73,848 122,405 | 457,988 570,090 615,767 761,128 1,107,209 | 108,736 216,949 309,611 585,203 1,298,500 | n.a. 77,825 84,206 143,424 207,379 | n.a. 163,002 254,513 513,879 1,278,998 | 135,196 240,827 338,719 657,303 1,486,377 | 701,920 1,027,866 1,264,097 2,003,634 3,892,086 |
| 1971 . 1972 . 1973 . 1974 . 1975 . | 113 460 | 47,782 54,278 65,021 63,320 58,352 | 30,500 26,559 27,370 26,984 19,858 | 233,807 193,305 197,394 211,628 132,327 | 412,598 490,962 620,842 752,218 880,609 | 64,727 77,592 73,074 78,166 78,222 | 367,666 348,811 399,050 454,517 437,801 | 432,393 426,403 472,124 532,683 516,023 | 1,078,798 1,110,670 1,290,360 1,496,529 1,528,959 |

DEPARTURES

| | | Permanen | t and long-te | erm movemen | t | | | Short-term | movement | | |
|---------|---------------------------------|---------------------------------|----------------------------------|--------------------------------------|-----------------------------------|---|--|--------------------------|-----------|-----------|--|
| | | Permanen | t | | Long-term | | Total | | | | |
| Period | Former settlers departing | Other residents departing | Total permanent departures | Australian residents departing | Overseas visitors departing | permanent and long-term departures | Australian Overseas residents visitors departing departing | Total depart- ures | | | |
| 1946–50 | | n.a. | n.a. | n.a. | n.a. | п.а. | 105.968 | 101,787 | 141,081 | 348,836 | |
| 1951-55 | | n.a. | n.a. | n.a. | n.a. | n.a. | 155,509 | 212,978 | 245,555 | 614,042 | |
| 1956-60 | | n.a. | n.a. | n.a. | n.a. | n.a. | 210,807 | 306,118 | 342,150 | 859,075 | |
| 1961-65 | | 48,491 | 33,989 | 82,480 | 189.526 | 63,593 | 335,599 | 593,119 | 675,028 | 1,603,746 | |
| 1966-70 | | 115,954 | 43,758 | 159,712 | 281,097 | 71,746 | 512,555 | 1,294,118 | 1,541,605 | 3,348,278 | |
| 1971 | | 29,449 | 11,673 | 41.122 | 67,699 | 21.433 | 130,254 | 413,917 | 450,022 | 994,193 | |
| 1972 | | 33,172 | 12,709 | 45.881 | 66,853 | 24,251 | 136,985 | 504,519 | 441,320 | 1,082,824 | |
| 1973 | | 30,325 | 13,105 | 43,430 | 64,964 | 21,506 | 129,900 | 638,141 | 481,901 | 1,249,942 | |
| 1974 | | 21.849 | 11.902 | 33,751 | 66,228 | 24,401 | 124,380 | 769,650 | 515,378 | 1,409,408 | |
| 1975 | | 18,315 | 10,769 | 29,084 | 66,405 | 23,327 | 118,816 | 911,815 | 506.454 | 1,537,084 | |

Note. Further information on short and long term movement is shown in the Chapter Cultural Activites, Recreation and Travel.

Permanent movement

In the following paragraphs particulars are given of the persons who on arrival in Australia stated that they came intending to settle, and of Australian residents who on their departure from Australia stated their intention of residing permanently ahroad, classified according to country of citizenship, occupation, age, marital status, and State or Territory of intended residence (arrivals) or of last residence (departures).

Country of Citizenship

OVERSEAS ARRIVALS AND DEPARTURES—PERMANENT MOVEMENT COUNTRY OF CITIZENSHIP, AUSTRALIA, 1973 AND 1974 (Persons)

1973 1974 Arrivals Arrivals Assisted Depart-Assisted Depart-Country of Citizenship Other Total Other Total (a) ures (a) ures 2,289 2,953 443 403 236 2,755 3,158 Australia 12,809 664 10.520 298 32 13 145 1,865 1,100 102 Austria Canada 324 1,576 708 267 1,897 65 841 463 Cyprus Finland 11 706 1,113 279 972 1,577 3,709 2,013 2,077 219 733 936 60 253 584 239 France 693 1.042 946 358 860 280 485 946 1,626 3,233 1,871 1,531 3,014 2,906 Germany(b) 641 Greece 863 2,370 305 29 31 80 3,678 1,933 204 1,834 519 1,238 2,871 India 11 918 1,749 1,123 1,159 460 798 Ireland 1,012 581 764 20 77 347 3,106 2,951 Italy . Lebanon 1,776 18 39 366 1,828 714 Malaysia Malta 445 446 22 1,416 736 2,062 1,226 3,554 740 971 646 998 1,479 1.204 851 348 2.055 646 Netherlands 1,016 806 668 4,253 416 516 347 635 216 1,739 79 1,560 11 44 15 New Zealand Philippines . 14 4,267 422 3,115 192 Portugal 658 1,174 351 64 13 172 491 25 237 480 621 761 Singapore . South Africa 1,270 73 353 175 Spain . . Sri Lanka . 1,188 203 209 1,533 127 429 14 86 186 130 395 57 16,143 2,265 Sweden . Switzerland . 551 571 480 604 472 183 439 388 1,405 25,637 676 3,307 9,304 Turkey United Kingdom(c) United States of America 63 14,381 1,755 3,160 54,036 3,685 6,469 15,782 28,399 3,009 3,162 27,969 907 18,574 2,102 2,502 46,543 3,009 422 832 Yugoslavia Other, including stateless 2,029 4.951 5,821 10.772 6.478 52,194 Total 105,003 43,430 69.130 121,324 33,751 49,822 55,181

Occupation

OVERSEAS ARRIVALS AND DEPARTURES—PERMANENT MOVEMENT OCCUPATION AND SEX, AUSTRALIA, 1973 AND 1974

| | 1973 | | | | 1974 | | | |
|---------------------------------|-----------|---------|------------|---|-----------|---------|------------|---------|
| | Arrivals | | Departures | | Arrivals | | Departures | |
| Occupation group | Males | Females | Males | Females | Males | Females | Males | Females |
| Professional, technical and | | - | | | | | | |
| related workers | 4,822 | 3,348 | 2,444 | 1,762 | 6,742 | 4,582 | 1,711 | 1,238 |
| Administrative, executive, and | ., | -, | -, | | | • | • | • |
| managerial workers | 2,147 | 299 | 1,306 | 142 | 2,734 | 594 | 913 | 135 |
| Clerical workers | 1,724 | 5,084 | 801 | 2,516 | 1,687 | 6,234 | 511 | 1,889 |
| Sales workers | 1,481 | 719 | 710 | 422 | 1,562 | 909 | 537 | 346 |
| Farmers, fishermen, hunters, | •, | | | | -,- | | | |
| timber getters, and related | | | | | | | | |
| workers | 700 | 31 | 312 | 10 | 757 | 60 | 173 | 11 |
| Miners, quarrymen, and | , | | • | | | | | |
| related workers | 113 | | 101 | | 125 | | 42 | |
| Workers in transport and | | • • • | | • | | | | |
| communication | 1,787 | 384 | 751 | 144 | 2,195 | 437 | 569 | 117 |
| Craftsmen and production- | -,, | | | | -, | | | |
| process workers | 13,195 | 1,783 | 5,052 | 571 | 14,502 | 2,551 | 3,688 | 435 |
| Labourers(a) | 3,566 | 2,7.02 | 1,377 | • | 4,020 | 771 | 1,012 | 34 |
| Service (protective and other), | 0,000 | ••• | -, | • • • | ., | * | ., | |
| sport, and recreation workers | 1,454 | 2,846 | 609 | 599 | 1,770 | 2,146 | 490 | 464 |
| Occupation inadequately | 1,55 | 2,010 | 003 | | 1, | _, | | |
| described or not stated . | 1,965 | 399 | 370 | 66 | 2,908 | 3,056 | 475 | 363 |
| Persons not in work force— | .,,,,,,,, | 3,, | 2.0 | - | 2,,,,,,,, | 0,000 | | |
| Children and students . | 18,778 | 17,409 | 7,617 | 6,916 | 21,525 | 19,656 | 5,925 | 5.823 |
| Others | 1,535 | 19,434 | 815 | 8,017 | 1,238 | 18,563 | 759 | 6,091 |
| | .,555 | 17,737 | 013 | 0,017 | 1,250 | .0,505 | ,,,, | 3,071 |
| Total | 53,267 | 51,736 | 22,265 | 21,165 | 61,765 | 59,559 | 16,805 | 16,946 |

⁽a) Labourers (so described), not elsewhere classified and freight handlers, including waterside workers.

⁽a) For details of assisted passage schemes see pages 165-6. (b) Comprises the German Democratic Republic and the Federal Republic of Germany. (c) Includes United Kingdom colonies in 1973.

Age and marital status

OVERSEAS ARRIVALS AND DEPARTURES—PERMANENT MOVEMENT, BY SEX AGE DISTRIBUTION, AND MARITAL STATUS, AUSTRALIA, 1974

| | | | Arrivals | | | | Departur | es | | |
|--|------|---|---|--|---|---|--|--|----------------------------------|---|
| Age last birth on arrival or departure | iday | | Never married | Married | Widowed or divorced | Total | Never married | Married | Widowed or divorced | Tota |
| | | | | | MA | LES | | | | |
| 0- 4 . 5-14 . 15-24 . 25-44 . 45-64 . 65 and over | | : | 8,149 11,048 9,772 5,174 372 190 34,705 | 3,576 17,649 3,677 927 25,829 | 49 629 268 285 1,231 | 8,149 11,048 13,397 23,452 4,317 1,402 61,765 | 2,364 3,111 1,743 1,288 156 85 8,747 | 630 4,886 1,563 516 7,595 | 13 173 110 167 463 | 2,364 3,111 2,386 6,347 1,829 768 |
| | | | | | FEMA | LES | | | | |
| 0- 4 . 5-14 . 15-24 . 25-44 . 45-64 . 65 and over | : | | 7,527 9,971 7,143 3,234 342 144 28,361 | 17 7,724 16,182 3,653 607 28,183 | 73 637 1,255 1,050 3,015 | 7,527 9,988 14,940 20,053 5,250 1,801 59,559 | 2,288 3,102 1,422 643 109 79 7,643 | 1,473 4,943 1,388 295 8,105 | 31 233 413 521 1,198 | 2,288 3,108 2,926 5,819 1,910 895 |
| | | | | | PERS | ONS | | | | |
| 0- 4 . 5-14 . 15-24 . 25-44 . 45-64 . 65 and over | : | : | 15,676 21,019 16,915 8,408 714 334 63,066 | 17 11,300 33,831 7,330 1,534 54,012 | 122 1,266 1,523 1,335 4,246 | 15,676 21,036 28,337 43,505 9,567 3,203 121,324 | 4,652 6,213 3,165 1,931 265 164 16,390 | 2,103 9,829 2,951 811 15,700 | 44 406 523 688 1,661 | 4,652 6,219 5,312 12,166 3,739 1,663 |

State or Territory of intended residence (arrivals) or last residence (departures). The following table shows the number of settlers arriving in Australia by State or Territory of intended residence and the number of Australian residents departing permanently by State or Territory of last residence, for the years 1972 to 1974. Settlers are asked, on or before arrival, their intended address in Australia. Their replies represent the settlers' intentions at the time and these may not be realised. Residents departing permanently are asked their State or Territory of residence. Before 1974, State or Territory of residence was defined as the State or Territory of intended or last residence for a period of twelve months or more. Period of residence is not now taken into account in the definition. The allocation to States and Territories in the table is based on their replies.

OVERSEAS ARRIVALS AND DEPARTURES—PERMANENT MOVEMENT
SETTLERS ARRIVING AND RESIDENTS DEPARTING, BY STATE OR TERRITORY OF
INTENDED RESIDENCE OR LAST RESIDENCE, 1972 TO 1974
(Persons)

| State or Territory of intended | | | Settlers | arriving | | Residents departing | | | |
|--------------------------------|----------|---|----------|----------|---------|---------------------|--------|--------|--|
| residence or last residence | | | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 | |
| New South Wales | <u> </u> | • | 42,206 | 38,643 | 45,143 | 16,090 | 15,406 | 12,100 | |
| Victoria | | | 28,573 | 27,012 | 31,904 | 8,775 | 8,673 | 8,244 | |
| Queensland | | | 9,880 | 10,672 | 10,169 | 4,077 | 4,312 | 4,168 | |
| South Australia | | | 10,406 | 10,269 | 10,164 | 4,224 | 3,939 | 3,812 | |
| Western Australia | | | 14,128 | 11,839 | 17,510 | 5,863 | 4,580 | 3,596 | |
| Tasmania | | | 1,056 | 1,161 | 1,524 | 665 | 608 | 513 | |
| Northern Territory | | | 696 | 690 | 786 | 353 | 533 | 260 | |
| Australian Capital Territory | | | 1,091 | 1,157 | 1,551 | 658 | 692 | 471 | |
| Not stated | | | 4,432 | 3,560 | 2,573 | 5,176 | 4,687 | 587 | |
| Total | | | 112,468 | 105,003 | 121,324 | 45,881 | 43,430 | 33,751 | |

Former settlers and other residents departing permanently—country of intended residence. The principal countries of intended residence of persons departing permanently during the years 1973 and 1974 are shown in the following table for 'former settlers' and other residents.

OVERSEAS DEPARTURES—PERMANENT MOVEMENT COUNTRY OF INTENDED RESIDENCE AUSTRALIA, 1973 AND 1974

| | | | | 1973 | | | 1974 | | |
|-------------------------------|------|--------|-----|------------------------|--------------------|--------|--------------------|--------------------|--------|
| Country of intended residence | | - | | Former settlers | Other residents | Total | Former settlers | Other residents | Total |
| Austria | | | | 152 | 56 | 208 | 101 | 45 | 146 |
| Canada | | | | 1,098 | 715 | 1,813 | 844 | 836 | 1,680 |
| Denmark . | | | | 217 | 39 | 256 | 97 | 39 | 136 |
| Finland: . | | | | 143 | 16 | 159 | 121 | 25 | 146 |
| France | | | | 354 | 81 | 435 | 207 | 117 | 324 |
| Germany(a) . | | | | 855 | 275 | 1,130 | 454 | 154 | 608 |
| Greece | | | | 326 | 202 | 528 | 236 | 130 | 366 |
| Hong Kong . | | | | 102 | 141 | 243 | 40 | 116 | 156 |
| Italy | | | | 778 | 388 | 1,166 | 725 | 344 | 1,069 |
| Malta | | | | 292 | 82 | 374 | 288 | 84 | 372 |
| Netherlands . | | | | 803 | 287 | 1.090 | 534 | 243 | 777 |
| New Zealand. | | | | 4,640 | 4,413 | 9,053 | 2,844 | 4,207 | 7,051 |
| Papua New Guinea | | | | 190 | 867 | 1,057 | 102 | 586 | 688 |
| Singapore . | | | | 131 | 169 | 300 | 29 | 116 | 145 |
| South Africa . | | | | 395 | 156 | 551 | 383 | 185 | 568 |
| Spain | | | | 200 | 69 | 269 | 110 | 62 | 172 |
| Sweden | | | | 148 | 33 | 181 | 84 | 19 | 103 |
| Switzerland . | | | | 372 | 74 | 446 | 173 | 70 | 243 |
| United Kingdom as | nd I | reland | .] | 15,028 | 2,780 | 17,808 | 11,732 | 2,438 | 14,170 |
| United States of Ar | | | | 2,229 | 1,090 | 3,319 | 1,333 | 949 | 2,282 |
| Yugoslavia . | | | | 591 | 105 | 696 | 322 | 93 | 415 |
| Other and not state | d | | • | 1,281 | 1,067 | 2,348 | 1,090 | 1,044 | 2,134 |
| Total . | | | | 30,325 | 13,105 | 43,430 | 21,849 | 11,902 | 33,751 |

(a) Comprises the German Democratic Republic and the Federal Republic of Germany.

IMMIGRATION INTO AUSTRALIA

Powers and legislation of the Commonwealth Government

Under Section 51 (xix), (xxvii) and (xxviii) of the Commonwealth Constitution, the Commonwealth Parliament is empowered to make laws with respect to immigration, emigration, aliens and the influx of criminals. Immigration into Australia is regulated by the *Migration Act* 1958 which came into force on 1 June 1959.

Any immigrant entering Australia after the commencement of the Act without having been granted an 'entry permit' or who is not within an exempted class is a prohibited immigrant. Exempted persons include diplomatic, consular and trade representatives of other countries, and seamen who enter with leave while their ships are in Australian ports. For the purposes of the Migration Act an 'immigrant' includes a person entering for temporary stay.

An entry permit is normally granted at the port of entry by means of a stamp in the traveller's passport or equivalent travel document. Temporary permits are granted to visitors and persons whose stay is to be of limited duration. For other persons permits are issued without limitation as to stay. A person who is refused an entry permit must not be permitted (by the carrier company) to enter Australia; otherwise the carrier company is liable to a fine of \$1,000.

The Act contains provision for the deportation of persons who enter Australia without an entry permit, who overstay their approved period of residence or who are convicted of crimes.

The Aliens Act 1947 provides that a register of aliens shall be maintained for every State and mainland Territory of Australia. Unless exempted, aliens 16 years of age and over entering or remaining in Australia are required to register as permanent residents. They are required to notify marriage within thirty days of marriage taking place. The Act provides also that consent must be obtained before an alien may change his or her surname.

For the purposes of the Aliens Act an 'alien' is a person 16 years of age and over who is not an Australian citizen, an Irish citizen, a person having the status of British subject, or a British or Australian protected person.

The Minister for Social Security is responsible for the administration of the *Immigration* (Guardianship of Children) Act 1946 and is the legal guardian of every person under the age of 21 years who enters Australia (except for certain exempted groups) other than in the charge of, or for the purpose of living in the care of, a parent or adult relative. It is primarily administered through the child welfare authorities in each State and mainland Territory who, as the Minister's delegates under the Act, supervise the welfare of each 'immigrant child'.

Department of Immigration and Ethnic Affairs

Functions of the Department of Immigration and Ethnic Affairs

The functions of the Department of Immigration include: administration of immigration policy; planning immigration programs; consideration of all applications for permanent and temporary residence; demographic studies; population policy; formulation of policy in relationship to international organisations and international conventions; Australian citizenship; deportation; prevention of illegal entry; and research into aspects of immigration and ethnic affairs.

Immigration Program 1976-77

The immigration program for 1976-77 has been set at 70,000 including some 30,000 financially assisted.

Immigration Policy

Australia's immigration policy is applied uniformly on a global basis: it is selective but not discriminatory.

Family reunion. Priority is given to the spouses, dependent children and aged or dependent parents of Australian residents. They are admitted provided they satisfy health and character requirements. Non-dependent parents of working age and their dependent children are admitted provided they are economically viable and satisfy normal health and character requirements. Fiancees and fiances may also be admitted. This is initially on a temporary residence basis.

Occupational categories. Persons with qualifications and experience in those occupations which are assessed as being in continuing strong demand in Australia may also be admitted. The list of approved occupations is kept under continuing review. It is confined at present to selected professional and skilled occupations. It is necessary for applicants or nominees to have an intention to settle permanently in Australia and they must also meet health and character requirements.

Assisted migration into Australia

Assisted passages are available to the spouses and dependent children of residents of Australia and to those persons (who may be accompanied by their families) possessing specifically listed skills or qualifications. Persons possessing such skills may be sponsored by residents of Australia or they may lodge direct applications overseas for entry and the grant of assisted passages.

Detailed statistics of assisted migration into Australia are shown in Australian Immigration; Consolidated Statistics and Australian Immigration; Quarterly Statistical Summary.

The following tables show total assisted migration since 1947 and arrivals under other assisted passage schemes and arrangements

ASSISTED MIGRATION: AUSTRALIA, 1947 TO 1975

| Period | | | | Nominated and selected (assisted) arrivals |
|---------|---|------|--|---|
| 1947-50 | | | | 273,195 |
| 1951-55 | | | | 275,241 |
| 1956-60 | | | | 305,517 |
| 1961-65 | | | | 337,132 |
| 1966-70 | | | | 537,478 |
| 1971-75 | | | | 290,882 |
| 1969 | | | | 125,958 |
| 1970 | | | | 134,428 |
| 1971 | | | | 103,811 |
| 1972 | | | | 63,710 |
| 1973 | • | | | 49,822 |
| 1974 | | | | 52,194 |
| 1975 | | | | 21,345 |

Details of the joint scheme of assisted immigration arrived at by agreement between the Commonwealth and State Governments, which operated from 1920 to 1939, were published in earlier issues of the Year Book (see No. 38, page 576). After the outbreak of hostilities in 1939 it was decided to discontinue the grant of assisted passages for the duration of the war. Details of assisted migration schemes which have operated since 1947 are shown in earlier issues of the Year Book (see No. 58, page 153).

UNITED KINGDOM ASSISTED PASSAGE AGREEMENT: NUMBER OF MIGRANTS(a) STATES AND TERRITORIES OF INTENDED RESIDENCE
JANUARY 1947 TO JUNE 1975

| Period | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. and N.T. | Cwlih |
|--------------------------------------|-------|----|---------|---------|---------|---------|---------|--------|--------|-----------------------|---------|
| January 1 | 947 1 | ю. | | | | | | | | | |
| June 19 | 967 | | | 231,680 | 202,519 | 75,716 | 119,677 | 81,357 | 17,902 | 7,429 | 736,280 |
| 1967-68 | | | | 16,297 | 11,929 | 4,639 | 8,384 | 13,034 | 1,196 | 398 | 55,877 |
| 1968-69 | | | | 23,754 | 14,705 | 5,954 | 12,046 | 14,990 | 1,536 | 399 | 73,384 |
| 1969-70 | | | | 22,583 | 13,448 | 5,843 | 11,515 | 13,955 | 1,268 | 423 | 69,035 |
| 1970-71 | | | | 16,932 | 10,801 | 5,095 | 10,003 | 12,431 | 1,137 | 456 | 56,855 |
| 1971-72 | | | | 14,345 | 8,692 | 4,662 | 7,477 | 8,737 | 598 | 323 | 44,834 |
| 1972-73 | | | | 10,571 | 6,235 | 4,352 | 5,914 | 5,141 | 530 | 252 | 32,995 |
| 1973-74 | | | | 7,070 | 5,520 | 3,055 | 4,807 | 3,731 | 536 | 274 | 24,993 |
| 1974–75 | | | | 4,967 | 4,025 | 1,712 | 3,288 | 3,784 | 473 | 233 | 18,482 |
| Total January 1947 to June 1975 . | | | 348,200 | 277,874 | 111,028 | 183,111 | 157,160 | 25,176 | 10,187 | 1,112,736 | |

166 POPULATION

ARRIVALS UNDER ASSISTED MIGRATION SCHEMES: AUSTRALIA, JANUARY 1947 TO JUNE 1975

| Assisted migration | sche | me | January 1947 to June 1970 | 1970-71 | 1971-72 | 1972–73 | 1973–74 | 1974-75 | January 1947 to June 1975 |
|--------------------|--------|-------|------------------------------------|---------|---------|---------|---------|---------|------------------------------------|
| Austrian . | | | 21,305 | 440 | 227 | 183 | 231 | 193 | 22,579 |
| Belgian | | | 2,774 | 167 | 159 | 90 | 81 | 59 | 3,330 |
| General Assisted F | assa | ge(a) | 40,388 | | | | | | 40,388 |
| German . | | • | 90,670 | 2,622 | 1,491 | 1,192 | 1,075 | 542 | 97,592 |
| Greek | | | 61,935 | 6,198 | 3,088 | 1,257 | 623 | | 73,101 |
| Italian | | | 52,920 | 4,615 | 3,641 | 1,920 | 1,383 | 1,049 | 65,528 |
| Maltese . | | | 40,692 | 1,048 | 904 | 1,130 | 1,430 | 787 | 45,991 |
| Netherlands . | | | 78,311 | 1,724 | 1,223 | 598 | 801 | 478 | 83,135 |
| Refugee | | | 242,581 | 11,812 | 3,259 | 2,512 | 1,228 | 514 | 261,906 |
| Spanish . | | | 10,258 | 1,013 | 856 | 856 | 1,148 | 378 | 14,509 |
| Special Passage As | ssista | ince | • | • | | | • | | , |
| Programme(b) | | | 50,753 | 22,578 | 15,918 | 10,449 | 13,816 | 11,585 | 114,818 |
| Turkish . | | | 5,556 | 3,369 | 1,822 | 1,216 | 1,711 | 174 | 13,848 |
| United Kingdom | | | 934,576 | 56,855 | 44,834 | 32,995 | 24,993 | 18,482 | 1,112,735 |
| Yugoslav . | | | | 5,853 | 4,135 | 2,303 | 1,841 | 1,092 | 15,224 |
| Other schemes | | | 30,219 | 1,553 | 786 | 268 | 283 | 901 | 44,291 |
| Total . | | | 1,662,938 | 119,847 | 82,343 | 56,969 | 50,644 | 36,234 | 2,008,975 |

⁽a) Mostly Scandinavians, U.S. Americans, and British nationals from countries other than the United Kingdom. (b) Includes United States Passage Assistance Programme (U.S.P.A.P.).

Accommodation of migrants

Migrants must be assured of accommodation on arrival, unless they have sufficient funds to be independent. For those migrants nominated by relatives or friends this initial accommodation has usually been in private homes. Most of the assisted migrants nominated by the Commonwealth Government are provided with transitory accommodation in migrant hostels operated by Commonwealth Hostels Ltd, a non-profit making Government-sponsored company. These hostels provide a range of services to help migrants to settle in Australia including child minding centres, English language classes, youth recreation activities, welfare officers and assistance in obtaining permanent accommodation.

The total capacity of hostels is about 11,000. A further 2,000 migrants nominated by the Commonwealth Government can be accommodated in self-contained flats. Hostel accommodation is available to families for up to 12 months, while tenancies of flats are limited to six months. Childless couples and single persons are accepted in hostels for up to six months and three months respectively. Extensions of stay are granted in extenuating circumstances.

British assisted migrants nominated by State Governments are provided with initial accommodation in reception centres operated by the State authorities. The Commonwealth Government contributes to the capital cost of these establishments on a dollar for dollar basis.

The Australian Population and Immigration Council

The Australian Population and Immigration Council was originally established in February 1975 and was reconstituted by the Minister for Immigration and Ethnic Affairs in March 1976.

The reconstituted Council advises the Minister on such matters as: (i) regular monitoring of, and research into, population change; (ii) major developments and research in Australia and overseas concerning population and immigration; (iii) longer-term implications of changing patterns of immigration intakes; (iv) ways in which future immigration intakes can be planned to complement other policies, and implications of population change for various aspects of resource allocation.

National Population Inquiry

The National Population Inquiry was set up in 1970 to advise on the likely composition and distribution of Australian population at various stages up to the end of the twentieth century. The Inquiry's first Report was published in 1975. It indicated that the rate of natural increase in Australia was declining and in particular, that fertility was likely to remain close to replacement level for the foreseeable future. Consequently, Australia's population growth is likely to be lower in the future, than in the recent past.

CITIZENSHIP 167

Committee on Overseas Professional Qualifications

The Committee on Overseas Professional Qualifications was established in 1969. It is serviced by a permanent secretariat and works in close co-operation with the various professional and registering authorities responsible for the assessment and recognition of professional qualifications. It assists them by information and advice on the comparability of overseas qualifications with Australian standards.

Passports

Australian passports are issued under the *Passports Act* 1938 and Passport Regulations. Applicants for passports must furnish evidence of their identity and citizenship and pay a fee of twenty dollars. Approximately 370,000 Australian passports are issued each year in Australia and abroad.

Citizenship

Legislation

The Nationality and Citizenship Act 1948 which came into force on 26 January 1949 created the status of 'Australian citizen'. On 4 June 1969 the Act became the Citizenship Act 1948. On 1 December 1973 the Act became the Australian Citizenship Act 1948.

Australian citizenship may be acquired (a) by birth in Australia, (b) by descent through birth abroad to Australian parents subject to registration of the birth at an Australian Consulate, and (c) by grant of citizenship to persons resident in Australia under the conditions prescribed in the Act.

The effect of the amendment to the legislation in 1973 was that all persons are now eligible for the grant of Australian citizenship on the same basis provided that they have lived in Australia for at least three years, are of good character, have an adequate knowledge of English and of the responsibilities and privileges of citizenship, and that they declare their intention to reside permanently in Australia.

The Act recognises the independence of married women. Australian citizenship is not lost solely by marriage to another national nor do women automatically acquire Australian citizenship upon marriage to an Australian citizen. Wives of Australian citizens are exempted from the three year residential requirement when applying for the grant of Australian citizenship.

PERSONS GRANTED AUSTRALIAN CITIZENSHIP

| Previous nationality or citizenship | Year ended 30 June 1975 | January 1945— June 1975(a) | Previous nationality or citizenship | | Year ended 30 June 1975 | January 1945— June 1975(a) | Previous nationality or citizenship | Year ended 30 June 1975 | January 1945— June 1975(a) |
|--|----------------------------------|-------------------------------------|--|---|----------------------------------|-------------------------------------|--|----------------------------------|-------------------------------------|
| Albanian | 4 | 1,195 | German . | | 1,407 | 56,234 | Romanian | 42 | 3,394 |
| Argentinian | 149 | 503 | Greek . | | 11,748 | 105,606 | Russian | 124 | 12,384 |
| Australian pro- | | | Guyanan . | • | 2 | 29 | Singaporean . | 329 | 1,610 |
| tected persons . | 43 | 2,616 | Hungarian . | | 350 | 33,386 | South African | 534 | 5,259 |
| Austrian | 342 | 11,696 | Icelandic | • | 6 | 44 | Spanish | 610 | 4,269 8,589 |
| Bangladesh . | 30 | 85 | Indian . | • | 1,489 | 14,996 | Sri Lankan . | 968 413 | |
| Belgian Bolivian | 112 5 | 1,516 44 | Indonesian Iranian | • | 104 | 588 487 | Stateless Sudanese | 413 77 | 17,321 265 |
| Brazilian | 36 | 160 | Iranian . | • | 82 337 | | Swedish | 73 | 1.016 |
| British protected | 30 | 100 | Irish . | • | 266 | 1,368 2,414 | Swiss | 341 | 3,333 |
| persons | 10 | 129 | Israeli . | • | 214 | 5,541 | Svrian | 416 | 1,234 |
| British without | 10 | 129 | Italian . | • | 5.012 | 172,008 | | 16 | 85 |
| citizenship . | | 260 | Jamaican . | • | 25 | 74 | Thai | 23 | 145 |
| Bulgarian . | 22 | 1.461 | Jananese . | • | 32 | 909 | Толдап | 13 | 64 |
| Burmese | 442 | 1.823 | Japanese . Jordanian . | • | 222 | 1,256 | Trinidad and | 13 | 04 |
| Canadian | 87 | 831 | Kenyan . | • | 19 | 184 | Tobago | 53 | 243 |
| Chilean | 340 | 648 | Korean | • | 44 | 147 | Tunisian | ž | 25 |
| Chinese | 547 | 9,560 | Latvian . | • | 54 | 18,430 | Turkish | 308 | 1,319 |
| Colombian | 28 | 65 | Lebanese . | : | 4,155 | 17.201 | Ugandan | 48 | 7110 |
| Costa Rican | 7 | 25 | Lithuanian | • | 25 | 8,841 | Ukrainian | 30 | 20.526 |
| Cuban | 14 | 46 | Malaysian . | • | 510 | 3,542 | United Kingdom | | , |
| Cypriot | 470 | 5,224 | Maltese | • | 392 | 5.712 | and colonies | 10,710 | 113,891 |
| Czechoslovak | 738 | 15,795 | Mauritian . | • | 502 | 2,967 | U.S. American . | 304 | 2.793 |
| Danish . | 187 | 3,268 | Mexican . | • | - 9 | 24 | Uruguayan . | 390 | 604 |
| Dutch | 1.090 | 80,310 | Moroccan . | • | 20 | 73 | Venezuelan . | 7 | 76 |
| Ecuadorian | 26 | 56 | New Zealande | | 122 | 2,602 | Vietnamese . | 26 | 186 |
| Egyptian | 1,327 | 8,372 | Norwegian | | 39 | 1.510 | West Indian . | | 23 |
| Estonian . | 19 | 6,177 | Pakistani . | • | 134 | 768 | Yugoslav | 5,355 | 68.879 |
| Fijian | 125 | 569 | Peruvian . | : | 60 | 158 | Zambian | 3 | 42 |
| Filipino | 304 | 1,411 | Polish . | | 643 | 73.325 | Others | 71 | 319 |
| Finnish | 312 | 4,117 | Portuguese | | 271 | 1,516 | | | |
| French | 611 | 4,296 | Rhodesian . | · | 25 | 563 | Total . | 57,033 | 962,765 |
| | | • | | | | | l | | |

Settlement services

Migrant welfare, settlement and integration

The Department of Social Security provides direct assistance to migrants through its migrant welfare field staff and the Telephone Interpreter Service and indirect help through support to voluntary agencies.

The migrant welfare field staff consist of an establishment of 32 professional social workers and 62 trained welfare officers of whom 48 have competency in languages other than English. They are deployed throughout all capital cities and some other centres and work in association with local government authorities and voluntary organisations. This staff provides migrants with information and advice, counselling concerning personal problems, and referral to relevant authorities and agencies for relief or treatment.

In addition to direct services to migrants, the Department administers a grant scheme whereby financial assistance is provided to selected community welfare agencies to enable them to employ qualified social workers to help migrants overcome settlement problems. The scheme was designed to supplement the services of the Department by taking assistance to metropolitan areas where migrants were concentrated and to regional areas which could not readily be covered by the Department's social work service. The scheme also recognised the increasing involvement of voluntary agencies (the majority of which had limited financial resources) in providing assistance to migrants in need. Of 60 grants available under the scheme subject to availability of funds, 50 had been allocated by the end of June 1975. Forty-six agencies had been approved to receive grants, and 45 social workers were employed.

The Telephone Interpreter Service which was established in Sydney and Melbourne in February 1973, and Perth in March 1974, was extended to Brisbane in November 1975 and Adelaide in December 1975. The Service is designed to help overcome communication problems by providing a general interpreting, information and advisory service to migrants. The telephone interpreters are supported by contract 'on call' interpreters who are provided by the Department to assist with 'on the spot' interpreting in such places as hospitals and clinics, lawyers' offices and courts, schools, State Housing Commissions, etc. During the financial year ending June 1975, 34,029 calls were received at the Sydney centre, 30,542 at Melbourne and 9,471 at Perth.

The ethnic communities, through their own organisations, ease the strain and play a major role in the resettlement process. The Department has published a directory of ethnic organisations for each State and has distributed copies free of charge to all interested persons and relevant institutions. Systematic updating is maintained with the aid of a computer which is to be linked with a foreign language information distribution service.

Sociological research is undertaken into the ethnic, cultural and historical background of individual national groups, the history of their migration to Australia, their residential distribution and their economic, cultural and scientific contribution to Australia. Other areas of concern are certain social and medical conditions of migrants, e.g. discrimination against newcomers, the incidence of crime, mental illness, alcoholism and tuberculosis.

A team of psychologists and support staff undertakes surveys and other research into migrant integration and welfare in Australia and migrant selection overseas. Important areas of this research are studies of the general background, motivation and post-arrival experiences of immigrants generally and of particular groups. Studies are also undertaken on aspects of more general relevance to the integration of migrants and their welfare and adjustment. The information gained facilitates the evaluation of current programs and policies bearing upon the settlement and integration of immigrants in Australia and their selection and counselling overseas.

Eight Good Neighbour Councils in the six States and two Territories of Australia operate as autonomous voluntary organisations with the many community groups and people throughout Australia whose common objective is to assist migrants to integrate. In certain instances Councils offer direct services to migrants and are financially sponsored by grants from the Commonwealth Government. From 1 January 1974 these grants enabled the Councils to pay the administrative costs involved in maintaining central offices in the capital cities, ten regional offices and five sub-offices as well as employing 78 staff members. The Councils worked with more than 972 organisations and controlled a network of more than 600 branches and representatives in regional centres.

Migrant education

Migrant education services are available without cost to assist migrants overcome language problems and settle effectively into the Australian community. Authority for these activities derives from the *Immigration (Education) Act* 1971, responsibility for which was assumed by the Department of Education under new administrative arrangements in June 1974.

Under the adult program instruction is provided in source countries before embarkation, on board ship and after arrival in Australia, in migrant hostels and in the community generally. There is a wide range of part-time and full-time courses which include accelerated and intensive instruction, television and radio programs and a number of special courses catering for migrant workers in industry, women (including a one-to-one instruction scheme using voluntary tutors for migrant women in the home) and other individual categories of migrants. Migrants attending full-time courses are paid a living allowance to maintain themselves and their families.

Under the child program, provision is made for teachers, equipment and materials for special English classes for migrant children in government and non-government schools and training courses are arranged for the special teachers employed under the program. At 31 December 1976 there were 92,600 migrant children receiving language instruction in special classes, 2,197 special teachers were employed and 1,278 schools involved in the program. As from 1 January 1976 the Schools Commission assumed responsibility for funding of the special program for migrant children. Responsibility for policy development and co-ordination of the program has remained with the Department of Education in consultation with the Schools Commission.

The emergency classroom accommodation program for migrant children which was introduced in 1973 will phase out in 1976. Over this period 411 single unit classrooms will have been provided at a cost of \$6,825,000.

A network of migrant education centres in capital cities provides a focal point for migrant education in the States and Territories. These centres are equipped with classrooms, language laboratories and teaching aids and provide also the administrative headquarters for the State Government authorities involved in the migrant education program.

Work continued on three major commissioned research projects in the child migrant education field. Two of these projects, a study of the educational experience, aspirations and achievement of migrant children, and a longitudinal study of the educational problems and coping behaviour of newly arrived migrant children, are being sponsored by the Academy of Social Sciences. The third project is being undertaken by the Australian Council for Educational Research and is aimed at developing a wide range of tests and allied devices for practical use by classroom teachers in assessing the English language skills and needs of migrant children. Each project will be completed in 1976–77 and total costs will be of the order of \$500,000. Expenditure in 1975–76 is expected to be \$189,000. An evaluation of Intensive English Language Courses for professionally qualified migrants was commenced in 1975–76 by the Research Branch of the Department of Education. In 1975–76 reports were published of two migrant education research studies completed in the previous year: a collaborative Federal-State inquiry into schools of high migrant density, and a commissioned research study of the educational abilities and achievement of migrant children in Victorian schools.

Internal migration

In May 1974 and February 1975 surveys were conducted in conjunction with the quarterly population survey (see the chapter Employment and Unemployment) in order to obtain information about the movement within Australia of persons who had been resident in Australia twelve months before. For the May 1974 survey, persons were classified as having moved if the address of their usual place of residence on 30 April 1974 was different from that on 1 May 1973 and both places were in Australia. For the February 1975 survey, the corresponding dates were 31 December 1974 and 1 January 1974. No information was obtained about the number of different changes made between these dates. Persons who were usually resident at the same address on both dates, but who had moved away and had returned during this period were regarded, for the purposes of the survey, as not having moved.

A Summary of the results of the survey conducted in February 1975 is shown below.

The table of standard errors and the comments on the reliability of estimates given in the chapter Employment and Unemployment are also applicable to this survey.

Further details of the survey conducted in February 1975 and results of the May 1974 survey were published in *Internal Migration*, Years ended April 1974 and December 1974 (4.26). Details of earlier surveys of internal migration were published in *Internal Migration*, 1969-70 to 1972-73 (4.26).

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POPULATION

NON-INSTITUTIONAL CIVILIAN POPULATION AGED 15 YEARS AND OVER(a) CHANGE OF USUAL RESIDENCE, JANUARY TO DECEMBER 1974

| | | | Males | Females | Persons | |
|---|---|---|---------------|---------------|------------------|----------------------|
| | | | ('000') | (,000) | ('000) | Per cent of total |
| Changed usual place of residence— Within the same State or Territory. Moved to another State or Territory | | : | 608.3 74.5 | 583.3 76.8 | 1,191.6 151.3 | 12.7 1.6 |
| Total | • | | 682.8 | 660.1 | 1,342.9 | 14.3 |
| Did not change usual place of residence | | | 3,980.7 | 4,063.9 | 8,044.6 | 85.7 |
| Total | | | 4,663.5 | 4,723.9 | 9,387.5 | 100.0 |

⁽a) Resident in Australia on 1 January 1974 and 31 December 1974. Excludes persons resident in Darwin in February 1975. Because of the effects of cyclone Tracy, the population survey was not conducted in Darwin in February 1975. It is estimated that at the time of the survey about 12,000 males and 5,000 females aged 15 years and over were living in Darwin.

PERSONS WHO CHANGED THEIR USUAL RESIDENCE(a), BY TYPE OF MOVE JANUARY TO DECEMBER 1974 ('000)

| | To capita | l city(b) | To other | area | Total move | ers | |
|----------------------------------|------------------|---------------------|----------------------------------|-------------------------------------|----------------|--------------|----------------|
| From | In same State | In another State | In same State or Territory | In another State or Territory | Intrastate | Interstate | Total |
| | | | MALES | | | | |
| State capital city(b) Other area | 339.4 34.6 | 22.4 16.7 | 38.8 195.6 | 15.1 20.3 | 378.1 230.2 | 37.5 37.0 | 415.6 267.1 |
| Total . | 374.0 | 39.1 | 234.3 | 35.4 | 608.3 | 74.5 | 682.8 |
| | | | FEMALE | s | | | |
| State capital city(b) Other area | 343.2 32.1 | 23.7 13.9 | 35.5 172.6 | 16.6 22.6 | 378.6 204.7 | 40.2 36.6 | 418.8 241.2 |
| Total . | 375.2 | 37.6 | 208.1 | 39.2 | 583.3 | 76.8 | 660.1 |
| | | | PERSON | s | | | |
| State capital city(b) Other area | 682.5 66.7 | 46.1 30.6 | 74.2 368.2 | 31.6 42.9 | 756.7 434.8 | 77.8 73.5 | 834.5 508.4 |
| Total | 749.2 | 76.7 | 442.4 | 74.6 | 1,191.6 | 151.3 | 1,342.9 |

⁽a) Non-institutional civilians aged 15 years and over, excluding persons resident in Darwin. See also note (a) to previous table.

(b) Statistical Divisions of the six State capital cities, as defined for the Census of Population and Housing, 30 June 1971, see pages 142-3.

SURVEYS OF INTERNAL MIGRATION

PERSONS WHO CHANGED THEIR USUAL RESIDENCE(a), BY TYPE OF MOVE, JANUARY TO DECEMBER 1974

('000)

| Type of move | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | <i>N.T.</i> | A.C.T. | Aust. |
|---|--------------|-------|------|------|------|------|-------------|--------|--------|
| From address in State capital | | | | | | | | | |
| city(<i>b</i>) | | | | | | | | | |
| To another address in same | | | | | | | | | |
| capital city | 233.4 | 226.3 | 71.0 | 71.0 | 68.5 | 12.3 | | | 682.5 |
| To elsewhere within same State | 23.5 | 17.5 | 14.1 | 7.5 | 10.3 | * | | ٠. | 74.2 |
| To another State or Territory . | | 21.7 | 12.6 | 9.2 | 5.6 | 2.8 | | | 77.8 |
| To address in State capital city(b)— | | | | | | | | | |
| From elsewhere within same | | | | | | | | | |
| State | | 16.2 | 16.3 | 6.2 | 10.4 | * | | | 66.7 |
| From another State or Territory | 20.7 | 18.1 | 13.7 | 8.0 | 12.7 | 3.4 | • • | | 76.7 |
| Net gain (+) or loss (-), State | | | | | | | | | |
| capital cities | <i>—12.7</i> | -4.9 | +3.4 | -2.5 | +7.3 | • | | | -8.6 |
| From address not in State capital city(b)— | | | | | | | | | |
| To another address outside State capital city, in same State or | | | | | | | | | |
| Territory | | 57.6 | 95.5 | 16.3 | 28.0 | 18.6 | 6.5 | 11.1 | 368.2 |
| To capital city of same State . | 16.1 | 16.2 | 16.3 | 6.2 | 10.4 | * | | | 66.7 |
| To another State or Territory . | | 10.4 | 14.6 | 3.8 | 3.6 | 3.1 | 6.2 | 5.9 | 73.5 |
| To address not in State capital city(b) | | | | | | | | | |
| From capital city of same State | -23.5 | 17.5 | 14.1 | 7.5 | 10.3 | | | | 74.2 |
| From another State or Territory | 15.0 | 10.3 | 19.2 | 3.5 | 4.6 | 3.9 | 5.7 | 12.3 | 74 . 6 |
| Net gain (+) or loss (-), areas | : | | | | | | | | |
| outside State capital cities . | * | * | • | | * | | • | +6.4 | +8.6 |
| | | | | | | | | | |

⁽a) See note (a) to previous table.
(b) See note (b) to previous table.
Subject to sampling variability too high for most practical purposes. Although figures for these small components can be derived by subtraction, they should not be regarded as reliable.



CHAPTER 8

VITAL STATISTICS

The tables in this chapter are confined to the principal characteristics of vital statistics for Australia and relate, in the main, to the year 1974 for marriages and divorces, 1973 and 1974 for births and 1973 for deaths and infant deaths. Comparisons have been restricted, in general, to the individual years 1970 to 1974 and the five year periods 1946–50 to 1966–70, while age data have been shown in five-year groups. Comparisons over longer periods, together with more detailed figures such as single age particulars and cross-classifications of various characteristics, were published in the annual bulletins, Demography (4.9) and Causes of Death (4.7). Current information is published in the Monthly Review of Business Statistics (1.4), the mimeograph bulletins Births (4.4), Deaths (4.8), Marriages (4.10), Divorce (13.1) (annual) and Vital and Population Statistics (quarterly) (4.11).

In most tables the statistics of births, deaths and marriages exclude particulars of full-blood Aborigines for years before 1966. Differences between the statistics now published and those formerly published which implied exclusion of Aboriginal vital events cannot be taken as reliable statistics of births, deaths, or marriages among full-blood Aborigines, because in many areas no satisfactory administrative or other basis existed for distinguishing vital events of full-blood Aborigines from those of part-Aborigines or the rest of the population.

Birth, death and marriage rates for certain countries of the world are set out in International Vital Statistics at the end of this chapter.

Provisions for registration and compilation of statistics

In Australia, statistics of births, deaths and marriages are compiled from information supplied for the registration of the event. Each State and Territory has an independent system of registration. Provisions for the civil registration of births, deaths, and marriages have been in force in Tasmania from 1839, in Western Australia from 1841, in South Australia from 1842, in Victoria from 1853, and in New South Wales and Queensland (then part of New South Wales) from 1856. Registration in the Territories is administered by the Commonwealth Government, registration having been taken over from South Australia in 1911 in respect of the Northern Territory and from New South Wales in 1930 in respect of the Australian Capital Territory. The authority responsible for the registration of births, deaths, and marriages occurring within his particular State or Territory is the Registrar-General (the Government Statist in Victoria) or the Principal Registrar.

The statistics of births, deaths and marriages in this chapter refer to events registered by the State and Territorial registrars during the year shown. There is usually an interval of at least several days between the occurrence and the registration of an event. As a result of the delay in registration some events occurring in one year are not registered until the following year. Events which are registered more than ten years after date of occurrence are excluded from the statistics.

For tables showing statistics of births, deaths and marriages for the States and Territories, figures are compiled from registrations of events which took place in each State and Territory. Some events take place in States other than the State in which the persons concerned (e.g. mother, deceased, bride/groom) usually resided. The effect of such interstate registrations on State totals however is slight. See page 181.

Statistics of divorce are compiled from petitions filed with and decrees granted by the Supreme Court of a State or Territory.

Marriages

The Marriage Act 1961-1966 came into operation on 1 September 1963, placing the marriage laws of all States, the mainland Territories and Norfolk Island on a uniform basis. Provision is made for the celebration of marriage by ministers of religion registered with the Registrar of Ministers of Religion appointed in each State and Territory by the Attorney-General, and by certain civil officers, in most cases district registrars. In each State or Territory the authorised celebrant is required to register particulars of the parties married with the appropriate registering authority as soon as practicable and in any case not later than fourteen days after the marriage.

The minimum marriageable age at which a person is legally free to marry is 18 years for males and 16 years for females. The marriage of a female between 16 and 18 years of age is not permissible without the consent of her parents or guardians or, where this is not obtainable of a magistrate or other prescribed authority. A judge or magistrate may, in exceptional circumstances, make an order authorising a male who has attained 16 years or a female who has attained 14 years to marry a person of marriageable age.

Numbers of marriages and crude marriage rates

MARRIAGES(a)

| | | | | | | | _ | | | |
|-------------|------|--------|--------|-------------|--------|-------|-------|------|--------|---------|
| Period | | N.S.W. | Vic. | Qld ———— | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| Annual ave | rage | ·— | | | | | | | | |
| 1946-50 | | 30,162 | 20,453 | 10,666 | 6,581 | 5,205 | 2,529 | 114 | 181 | 75,891 |
| 1951-55 | | 28,483 | 20,007 | 10,171 | 6,290 | 5,232 | 2,539 | 146 | 234 | 73,102 |
| 1956-60 | | 28,432 | 20,422 | 10,254 | 6,517 | 5,145 | 2,573 | 190 | 321 | 73,854 |
| 1961-65 | | 31,788 | 23,262 | 11,437 | 7,514 | 5,768 | 2,700 | 248 | 533 | 83,250 |
| 1966–70 | | 39,216 | 29,481 | 14,717 | 9,920 | 8,147 | 3,330 | 394 | 983 | 106,188 |
| Annual tota | ıl | | | | | | | | | |
| 1970 | | 42,928 | 31,729 | 16,082 | 10,864 | 9,227 | 3,535 | 501 | 1,200 | 116,066 |
| 1971 | | 43,038 | 32,386 | 16,538 | 10,833 | 9,382 | 3,578 | 485 | 1,397 | 117,637 |
| 1972 | | 41,520 | 31,206 | 16,066 | 10,829 | 9,120 | 3,426 | 490 | 1,372 | 114,029 |
| 1973 | | 40,722 | 30,203 | 16,490 | 10,806 | 9,102 | 3,395 | 513 | 1,469 | 112,700 |
| 1974 | | 39,327 | 29,708 | 16,086 | 10,769 | 9,295 | 3,567 | 566 | 1,355 | 110,673 |
| | | | | | | | | | | |

⁽a) Excludes particulars of full-blood Aborigines before 1966.

CRUDE MARRIAGE RATES(a)

| Period | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-----------|-------|---------|---|--------|------|------|------|-------|------|------|--------|-------|
| Average a | annua | l rate- | _ | | | | | | | | | |
| 19465 | 0. | | | 9.90 | 9.72 | 9.41 | 9.87 | 10.01 | 9.56 | 9.39 | 9.36 | 9.77 |
| 1951-5 | 5. | | | 8.41 | 8.34 | 7.91 | 8.11 | 8.44 | 8.35 | 9.13 | 8.20 | 8.29 |
| 1956-6 | 0. | | | 7.70 | 7.50 | 7.14 | 7.26 | 7.36 | 7.69 | 8.63 | 7.51 | 7.50 |
| 1961-6 | 5. | • | | 7.86 | 7.64 | 7.27 | 7.42 | 7.43 | 7.49 | 8.09 | 7.26 | 7.63 |
| 1966–7 | 0. | | | 8.96 | 8.84 | 8.49 | 8.82 | 8.87 | 8.76 | 5.81 | 8.68 | 8.81 |
| Annual r | ate | | | | | | | | | | | |
| 1970 | | | | 9.48 | 9.20 | 8.96 | 9.38 | 9.28 | 9.11 | 6.32 | 9.10 | 9.26 |
| 1971 | | | | 9.33 | 9.23 | 9.03 | 9.21 | 9.09 | 9.15 | 5.60 | 9.68 | 9.20 |
| 1972 | | | | 8.89 | 8.78 | 8.58 | 9.10 | 8.63 | 8.71 | 5.26 | 8.67 | 8.78 |
| 1973 | | | | 8.64 | 8.40 | 8.59 | 8.99 | 8.49 | 8.55 | 5.35 | 8.69 | 8.56 |
| 1974 | | | | 8.26 | 8.15 | 8.17 | 8.82 | 8.46 | 8.88 | 5.56 | 7.52 | 8.27 |

MARRIAGES 175

Previous marital status

In most years about ninety per cent of grooms and brides are single at marriage, seven per cent divorced and three per cent widowed.

PREVIOUS MARITAL STATUS OF BRIDEGROOMS AND BRIDES: AUSTRALIA, 1974

| Previous marital status of | | | Previous marital st | atus of brid | 'es | Total bride- |
|-------------------------------|--------------|--|------------------------|--------------|----------|-----------------|
| bridegrooms | s <i>0</i>) | | Spinsters | Widows | Divorced | grooms |
| Bachelors | | | 92,367 | 1,118 | 4,387 | 97,872 |
| Widowers | | | 714 | 1,685 | 968 | 3,367 |
| Divorced. | | | 4,950 | 961 | 3,523 | 9,434 |
| Total | brides | | 98,031 | 3,764 | 8,878 | 110,673 |

Age and previous marital status at marriage

There were 18,171 males under 21 years of age married during 1974, while the corresponding number of females was 50,312.

AGE AND PREVIOUS MARITAL STATUS OF BRIDEGROOMS AND BRIDES AUSTRALIA, 1974

| Age at | Bridegroot | ms | | | Brides | | | |
|---------------------|------------|----------|----------|---------|-----------|--------|----------|---------|
| marriage (years) | Bachelors | Widowers | Divorced | Total | Spinsters | Widows | Divorced | Total |
| Under 20 | 8,472 | | | 8,472 | 34,733 | 7 | 13 | 34,753 |
| 20-24 . | 57,814 | 18 | 227 | 58,059 | 49,268 | 107 | 787 | 50,162 |
| 25–29 . | 22,471 | 81 | 1,863 | 24,415 | 9,853 | 263 | 2,414 | 12,530 |
| 30-34 . | 5,300 | 99 | 2,009 | 7,408 | 2,314 | 235 | 1,848 | 4,397 |
| 35-39 . | 1,719 | 147 | 1,490 | 3,356 | 836 | 276 | 1,140 | 2,252 |
| 40-44 . | 904 | 191 | 1,173 | 2,268 | 362 | 369 | 934 | 1,665 |
| 45–49 . | 536 | 380 | 1,027 | 1,943 | 252 | 485 | 845 | 1,582 |
| 50-54 . | 301 | 483 | 780 | 1,564 | 159 | 556 | 487 | 1,202 |
| 55-59 . | 152 | 501 | 455 | 1,108 | 113 | 499 | 237 | 849 |
| 60-64 . | 112 | 516 | 217 | 845 | 69 | 454 | 111 | 634 |
| 65 and over | 91 | 951 | 193 | 1,235 | 72 | 513 | 62 | 647 |
| Total | 97,872 | 3,367 | 9,434 | 110,673 | 98,031 | 3,764 | 8,878 | 110,673 |

RELATIVE AGES OF BRIDEGROOMS AND BRIDES: AUSTRALIA, 1974

| | | Age of | Age of bride (years) | | | | | | | | | | | | |
|-----------------------------|----|-------------|----------------------|--------|--------|-------|-------|-------|----------------|---------------------------|--|--|--|--|--|
| Age of bride groom (year | | Under 15 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 and over | Total bride- grooms | | | | | |
| Under 20 | | 9 | 7.001 | 1,389 | 63 | 7 | | | •• | 8,472 | | | | | |
| 20-24 . | | 7 | 23,300 | 32,074 | 2,345 | 267 | 44 | 15 | 7 | 58,059 | | | | | |
| 25-29 . | | 2 | 3,800 | 13,525 | 5,766 | 1,023 | 230 | 57 | 12 | 24,415 | | | | | |
| 30-34 . | | 2 | 490 | 2,376 | 2,704 | 1,263 | 400 | 116 | 57 | 7,408 | | | | | |
| 3 5 -39 . | | | 94 | 535 | 997 | 861 | 514 | 227 | 128 | 3,356 | | | | | |
| 40-44 . | | | 33 | 162 | 375 | 522 | 466 | 381 | 329 | 2,268 | | | | | |
| 45-49 . | | | 8 | 65 | 181 | 264 | 332 | 399 | 694 | 1,943 | | | | | |
| 50-54 . | | | 6 | 19 | 62 | 114 | 177 | 267 | 919 | 1,564 | | | | | |
| 55-59 . | | | | 9 | 22 | 52 | 56 | 126 | 843 | 1,108 | | | | | |
| 60-64 . | | | | 3 | 10 | 14 | 21 | 54 | 743 | 845 | | | | | |
| 65 and over | • | | ı | 5 | 5 | 10 | 11 | 21 | 1,182 | 1,235 | | | | | |
| Total brid | es | 20 | 34,733 | 50,162 | 12,530 | 4,397 | 2,252 | 1,665 | 4,914 | 110,673 | | | | | |

The median age at marriage of brides and bridegrooms has declined during recent years. The median ages, in years, of brides for each of the five years to 1974 were: 1970, 21.46; 1971, 21.39; 1972, 21.41; 1973, 21.41 and 1974, 21.37. The median ages, in years, of bridegrooms were: 1970, 23.74; 1971, 23.78; 1972, 23.80; 1973, 23.85; and 1974, 23.83. The difference in the median age at marriage between brides and bridegrooms is generally about two years, the difference in 1974 being 2.46 years. The median age is the age at which half of the bridegrooms or brides were younger and half were older than that age. It gives a better indication of the most common age at marriage than the mean age.

Countries of birth of persons marrying

RELATIVE COUNTRIES OF BIRTH OF BRIDEGROOMS AND BRIDES: AUSTRALIA, 1974

| | Country of b | birth of | bride | | | | | | | | | |
|-----------------------------------|--------------|---------------------|--|--------------|--------|-------|-------|------------------|-----------------|------------------------|-------------------------------|---------------------------|
| Country of birth of bridegroom | Australia | New Zea- land | United King- dom and Ireland | Ger- many | Greece | Italy | Malta | Nether- lands | Yugo- slavia | Other Euro- pean | Other and un- specified | Total bride- grooms |
| Australia | 73,898 | 482 | 4,939 | 534 | 85 | 306 | 193 | 547 | 101 | 483 | 1,415 | 82,983 |
| New Zealand . | 896 | 139 | 103 | ġ | 1 | 4 | 2 | 13 | | 15 | 37 | 1,219 |
| United Kingdom | | | | • | - | • | _ | | • • | | | • |
| and Ireland . | 6,741 | 111 | 2,137 | 110 | 14 | 48 | 39 | 106 | 27 | 108 | 345 | 9,786 |
| Germany | 983 | 16 | 129 | 136 | - 1 | 8 | 3 | 21 | 8 | 73 | 82 | 1,462 |
| Greece | 367 | 8 | 33 | | 1,250 | 10 | 3 | 3 | 10 | 13 | 107 | 1,804 |
| Italy | 1,491 | 12 | 105 | 23 | 12 | 1,252 | 20 | 3 8 | 25 | 46 | 108 | 3,102 |
| Malta | 419 | 1 | 43 | 6 | - 1 | ., | 272 | 4 | 2 | 8 | 13 | 778 |
| Netherlands . | 979 | 6 | 115 | 15 | í | 8 | 3 | 129 | 2 | 11 | 42 | 1,311 |
| Yugoslavia . | 312 | 3 | 31 | 25 | 17 | 24 | 4 | 11 | 1,136 | 39 | 40 | 1,642 |
| Other European | | 18 | 149 | 25 73 | 9 | 28 | 7 | 25 | 50 | 629 | 162 | 2,084 |
| Other and un- | | •• | , | | • | -0 | | | ••• | | | , |
| specified . | 1,933 | 43 | 288 | 44 | 65 | 39 | 9 | 40 | 21 | 87 | 1,933 | 4,502 |
| Total brides | 88,953 | 839 | 8,072 | 975 | 1,458 | 1,736 | 555 | 907 | 1,382 | 1,512 | 4,284 | 110,673 |

Celebration of marriages

Marriages may be celebrated by a minister of religion registered as an authorised celebrant, by a district registrar or by other persons authorised by the Attorney-General. Notice of the intended marriage must be given to the celebrant at least seven days before the marriage. Most of the marriages are celebrated by ministers of religion although the proportion of civil marriages has been increasing. The registered ministers in 1974 belonged to more than fifty different religious denominations.

MARRIAGES BY AUTHORISED CELEBRANTS: 1974

| | | | | | | | | A | lustralia | |
|---|--------|--------|--------|--------|-------|-------|-------|--------|-----------|-----------------------------|
| Category of authorised celebrant | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | No. | Pro- portion of total |
| Registered ministers of recognised religious denominations— | | | | | | | | | | |
| Roman Catholic | 10,618 | 8,544 | 4,208 | 2,138 | 2,289 | 693 | 121 | 398 | 29,009 | 26.21 |
| Church of England . | 10,812 | 5,992 | 3,473 | 1,796 | 2,381 | 1,350 | 64 | 317 | 26,185 | 23.66 |
| Methodist , , | | 2,624 | 2,262 | 2,240 | 956 | 440 | 34 | 40 | 12,448 | 11.25 |
| Presbyterian | 3,320 | 3,922 | 1.802 | 295 | 481 | 135 | 43 | 112 | 10,110 | 9.14 |
| Orthodox | 979 | 1,046 | 113 | 164 | 93 | 8 | 19 | 17 | 2,439 | 2.20 |
| Baptist | 735 | 547 | 329 | 260 | 141 | 84 | 4 | 18 | 2,118 | 1.91 |
| Lutheran | 171 | 274 | 453 | 607 | 41 | 6 | 9 | 18 | 1,579 | 1.43 |
| Churches of Christ . | 178 | 569 | 202 | 289 | 231 | 22 | 6 | 8 | 1,505 | 1.36 |
| Congregational | 336 | 314 | 127 | 262 | 88 | 51 | 5 | 6 | 1,189 | 1.07 |
| Salvation Army | 162 | 164 | 86 | 68 | 60 | 38 | 5 | 3 | 586 | 0.53 |
| Other | 809 | 1.016 | 448 | 221 | 280 | 130 | 16 | 19 | 2,939 | 2.66 |
| Other authorised celebrants- | | -, | | | | | | | • | |
| Ministers of religion | 242 | 247 | 55 | 64 | 96 | 9 | 5 | 10 | 728 | 0.66 |
| Civil officers | 7,113 | 4,449 | 2,528 | 2,365 | 2,158 | 601 | 235 | 389 | 19,838 | 17.92 |
| Grand Total | 39,327 | 29,708 | 16,086 | 10,769 | 9,295 | 3,567 | 566 | 1,355 | 110,673 | 100.00 |
| Proportion of total (per cent)- | | | | | | | | | | |
| Ministers of religion | 81.91 | 85.02 | 84.28 | 78.04 | 76.78 | 83.15 | 58.48 | 71.29 | 82.08 | |
| Civil officers | 18.09 | 14.98 | 15.72 | 21.96 | 23.22 | 16.85 | 41.52 | 28.71 | 17.92 | |
| | | | | | | | | | | |

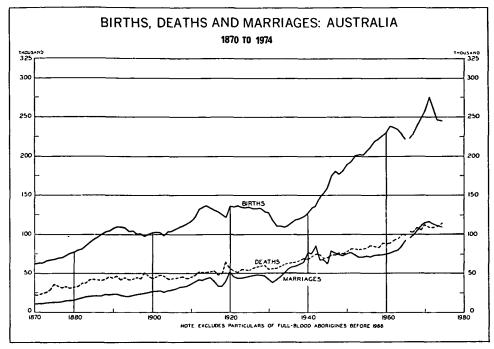


PLATE 28

Divorce and other matrimonial causes

The Matrimonial Causes Act 1959 came into operation on 1 February 1959, placing the divorce laws of all States and Territories on a uniform basis. Under this legislation a court may grant decrees of dissolution of marriage (divorce), nullity of marriage, judicial separation, restitution of conjugal rights, and jactitation of marriage (i.e., that a person should refrain from making a false claim that a marriage has taken place between him and another person). Orders may be made for maintenance, the custody and welfare of children, the settlement of property, and damages for adultery. The following statistics refer only to petitions for, and decrees of, dissolution, nullity, and judicial separation. A description of legislation governing divorce and other matrimonial causes in Australia is contained in Year Book No. 55, page 580.

Petitions filed

Statistics of petitions exclude cross-petitions contained in answers by respondents. The following table shows the number of petitions for dissolution of marriage, nullity of marriage, and judicial separation filed in each State and Territory during 1974.

| PETITIONS FILED | FOR | DISSOLUTION | NIHITTV | AND | HIDICIAL | SEPARATION | 1074 |
|-----------------|-----|-------------|---------|-----|----------|------------|------|
| | | | | | | | |

| Petition for— | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|----------|------------|--------|----------------------------|-------------------------------------|----------------------------|-----------------------------|----------------------------|------------------------|----------------------|------------------------|--------------------------------|
| Dissolution— By husband By wife | : | : | : | 3,533 7,229 | 2,477 4,079 | 1,238 2,248 | 855 1,405 | 1,015 1,212 | 307 441 | 57 82 | 186 388 | 9,668 17,084 |
| Total | | | | 10,762 | 6,556 | 3,486 | 2,260 | 2,227 | 748 | 139 | 574 | 26,752 |
| Nullity— By husband By wife | | · | | 8 31 | 2 | 5 7 | ! 2 | i 1 | 2 2 | ·i | ·i | 19 48 |
| Total | | | | 39 | 5 | 12 | 3 | 2 | 4 | 1 | 1 | 67 |
| Dissolution or By husband By wife | nul : | lity— | - : | 2 2 | 2 7 | | ż | | •• | •• | | 4 11 |
| Total | | | | 4 | 9 | | 2 | | | | | 15 |
| Judicial separat By husband By wife | ion | - : | | ` | ·i | . 4 | · . 6 | `à | ·i | | í' | 20 |
| Total | | | | 4 | , | 4 | 6 | 3 | 1 | | 1 | 20 |
| All petitions— By husband By wife | | per | No. | 3,543 33 7,266 67 | 2,481 38 4, 09 0 62 | 1,243 35 2,259 65 | 856 38 (a)1,416 62 | 1,016 46 1,216 54 | 309 41 444 59 | 57 41 83 59 | 186 32 390 68 | 9,691 36 (a)17,164 64 |
| Grand to | tal | ٠. | | 10,809 | 6,571 | 3,502 | (a)2,272 | 2,232 | 753 | 140 | 576 | (a)26,855 |

⁽a) Includes one petition for dissolution or judicial separation.

Decrees granted

Statistics of decrees granted refer to decrees *nisi* made absolute except for the following cases, where no decree *nisi* is granted.

- (i) Decrees of judicial separation, which do not dissolve the marriage and may be discharged on resumption of cohabitation.
- (ii) Decrees of nullity of void marriage, as distinct from nullity of voidable marriage. A void marriage is invalid because of failure to meet a legal requirement, and the original decree of nullity is final. A valid marriage is voidable on proof of one or more of the grounds set out in Section 21 of the Matrimonial Causes Act 1959-1966, e.g. that either party is incapable of consummating the marriage.

The following tables show the number of dissolutions of marriage, nullities of marriage, and judicial separations granted in each State and Territory during 1974 classified according to petitioner, and the grounds on which decrees were granted during the years 1970 to 1974.

DECREES FOR DISSOLUTION, NULLITY, AND JUDICIAL SEPARATION, 1974

| Decree of- | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|------|---------|-----|----------------|---------------------|----------------|------------|-----------------|------------|----------|------------|-----------------------|
| Dissolution— To husband To wife. To both | : | : | : | 2,502 4,615 | 1,651 2,597 9 | 730 1,103 | 605 956 | 771 982 8 | 240 295 | 34 30 | 132 235 | 6,665 10,813 17 |
| Total | | | | 7,117 | 4,257 | 1,833 | 1,561 | 1,761 | 535 | 64 | 367 | 17,495 |
| Nullity— To husband To wife. | : | : | : | 3 16 | 4 10 | · <u>·</u> 4 | 2 2 | •• | 'n | | ·i | 9 34 |
| Total | | | | 19 | 14 | 4 | 4 | | 1 | | 1 | 43 |
| Judicial separa To husband To wife. | tior | ·– : | | · ; | ·i | · ; | ï | | | •• | i | i3 |
| Total | | | | 3 | 1 | 7 | 1 | | | | 1 | 13 |
| All decrees— To husband | | | No. | 2,505 35 | 1,655 | 730 40 | 607 39 | 771 44 | 240 45 | 34 53 | 132 36 | 6,674 38 |
| To wife. | | | No. | 4,634 65 | 2,608 61 | 1,114 60 | 959 61 | 982 56 | 296 55 | 30 47 | 237 64 | 10,860 |
| To both | | , per | No. | | 9 | | | 8 | | | | ĭ7 |
| Grand to | tal | | | 7,139 | 4,272 | 1,844 | 1,566 | 1,761 | 536 | 64 | 369 | 17,551 |

DECREES FOR DISSOLUTION, NULLITY, AND JUDICIAL SEPARATION, GROUNDS: AUSTRALIA

| Ground | 1970 | 1971 | 1972 | 1973 | 1974 |
|------------------------------|----------|----------|---------|---------|--------------------------------------|
| | DISSOL | UTION | | | |
| Single grounds— | | | | | |
| Desertion | 5,098 | 5,076 | 5,814 | 5,891 | 6,371 |
| Adultery | 3,419 | 3,977 | 5,088 | 5,490 | 6,074 |
| Separation | 2,023 | 2,243 | 2,442 | 2,186 | 2,468 |
| Cruelty | 942 | 983 | 1,368 | 1,660 | 1,717 |
| Drunkenness | 142 | 165 | 203 | 224 | 265 |
| Intoxication by drugs | 5 | 4 | 5 | 3 | 3 |
| Non-compliance with resti- | _ | | | | |
| tution decree | 2 | 1 | 3 | .5 | |
| Refusal to consummate . | 42 | 29 | 39 | 41 | 26 |
| Insanity | 6 | 3 | 1 | . 4 | 2 |
| Frequent convictions | 25 | 15 | 19 | 14 | 11 |
| Imprisonment . | 3 | 8 | 7 | . 5 | 10 |
| Other single grounds | 15 | 20 | 19 | 16 | 21 |
| Dual grounds— | | | | | |
| Desertion and adultery . | 90 | 87 | 80 | 80 | 94 |
| Desertion and separation . | 96 | 79 | 106 | 85 | 78 |
| Desertion and cruelty. | 59 | 49 | 68 | 75 | 60 |
| Desertion and drunkenness. | 14 | 10 | 10 | 14 | 9 |
| Desertion and failure to pay | | - | | | |
| maintenance | 3 | 6 | 2 | 3 | 2 |
| Desertion and other | 7 | 5 | 3 | 5 | 3 |
| Adultery and separation . | 4 | 3 | 7 | 5 | 4 |
| Adultery and cruelty | 17 | 14 | 26 | 22 | 16 |
| Adultery and other | 2 | 1 | 3 | 3 | 2 |
| Separation and other | 3 | | 3 | 1 | 2 |
| Cruelty and drunkenness . | 160 | 146 | 237 | 226 | 237 |
| Cruelty and other | 5 | 1 | 3 | 3 | 2 |
| Other dual grounds | 1 | 8 | 6 | 7 | 4 |
| Three grounds or more | 15 | 14 | 22 | 27 | 13 |
| Total | 12,198 | 12,947 | 15,584 | 16,095 | 17,495 |
| | NULI | LITY | | | ···································· |
| Di | 1.5 | 22 | | 1.5 | 20 |
| Bigamy | 15 | 23 | 9 | 15 | 20 |
| Invalid marriage | 29 | 1 15 | 3 34 | 1 44 | 1 20 |
| Other grounds | 1 | 4 | 3 | 3 | 20 |
| Other grounds | • | • | 3 | , | |
| Total | 45 | 43 | 49 | 63 | 43 |
| JU | DICIAL S | EPARATIC | N | | |
| Desertion | | 1 | | Δ | |
| Adultery | 3 | 2 | 2 | 2 | 3 |
| Cruelty | | 5 | ī | - | 5 |
| Other grounds | 3 | 4 | • | ï | - 4 |
| _ | | | | | |
| Total | 6 | 12 | 3 | 7 | 1. |
| | ALL DI | ECREES | | | |
| Grand total | 12,249 | 13,002 | 15,636 | 16,165 | 17,55 |

Divorced persons at each census, 1921 to 1971

The following table shows the number and proportion of divorced persons in Australia as recorded from returns supplied at each census from 1921 to 1971. A classification of divorced persons by ages for the censuses from 1891 to 1947 appeared in earlier issues of the Year Book (see No. 39, page 269). The number of divorced persons at the 1911 Census is shown in Year Book No. 58, page 453. Before 1911 no record was made of divorced persons in South Australia, so comparisons cannot be made prior to that date.

DIVORCED PERSONS AT CENSUS DATES: AUSTRALIA, 1921 TO 1971

| | Numbe | r | | | | | Number per 10,000 of males or females 15 years of age and over | | | | | | | |
|----------------------|----------------|------------------|------------------|------------------|------------------|------------------|--|----------|----------|----------|------------|------------|------------|------------|
| Sex | 1921 | 1933 | 1947 | 1954 | 1961 | 1966 | 1971 | 1921 | 1933 | 1947 | 1954 | 1961 | 1966 | 1971 |
| Males . Females . | 4,233 4,304 | 10,298 10,888 | 25,052 27,516 | 32,389 36,650 | 38,640 43,339 | 42,908 51,174 | 61,479 71,421 | 23 24 | 42 46 | 89 96 | 100 115 | 105 119 | 105 125 | 136 157 |

Births and fertility

Information concerning a birth is required to be supplied to the registration authority within 28 days in the Australian Capital Territory and the Northern Territory, and 60 days in the States.

Information is required in all States and Territories concerning what have been commonly known as 'stillbirths'. These are excluded from all the tables of births and deaths in this chapter and are included only in the special tables on stillbirths shown on pages 190-1.

Number of live births

LIVE BIRTHS(a)

| Period | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|------------|-------|--------|--------|--------|--------|--------|-------|-------|--------|---------|
| Annual ave | erage | _ | | | | | | | | |
| 1946-50 | | 68,856 | 47,372 | 28,003 | 16,270 | 13,130 | 7,064 | 289 | 734 | 181,718 |
| 1951-55 | | 73,737 | 53,770 | 30,983 | 18,045 | 15,724 | 7,774 | 468 | 922 | 201,423 |
| 1956-60 | | 79,613 | 61,279 | 34,171 | 19,977 | 16,922 | 8,517 | 694 | 1,286 | 222,459 |
| 1961–65 | | 82,896 | 65,193 | 35,357 | 21,377 | 16,861 | 8,439 | 897 | 1,932 | 232,952 |
| 1966–70 | | 82,560 | 68,755 | 35,378 | 21,310 | 19,426 | 7,979 | 2,134 | 2,783 | 240,325 |
| Annual tot | al | | | | | | | | | |
| 1970 | | 88,448 | 73,019 | 37,530 | 22,617 | 21,618 | 8,185 | 2,624 | 3,475 | 257,516 |
| 1971 | | 98,466 | 75,498 | 39,970 | 22,996 | 24,239 | 8,321 | 2,832 | 4,040 | 276,362 |
| 1972 | | 95,278 | 71,807 | 39,251 | 21,844 | 22,177 | 7,824 | 2,722 | 4,066 | 264,969 |
| 1973 | | 87,332 | 67,123 | 38,067 | 20,407 | 20,510 | 7,326 | 2,809 | 4,096 | 247,670 |
| 1974 | | 86,162 | 66,201 | 37,852 | 20,181 | 20,207 | 7,398 | 2,808 | 4,368 | 245,177 |

⁽a) Excludes particulars of full-blood Aborigines before 1966.

Masculinity of live births

MASCULINITY(a) OF LIVE BIRTHS REGISTERED: AUSTRALIA 1946-1974

| | 1946-50 | 1951-55 | 1956-60 | 1961–65 | 1966-70 | 1970 | 1971 | 1972 | 1973 | 1974 |
|-------------------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| Total births . | 105.60 | 105.19 | 105.65 | 105.83 | 105.41 | 105.12 | 104.34 | 105.47 | 105.19 | 106,24 |
| Ex-nuptial births | 104.46 | 103.36 | 104.49 | 106.88 | 105.11 | 106.96 | 106.05 | 106.38 | 104.69 | 108,79 |

⁽a) Number of males born for every 100 female births. Excludes particulars of full-blood Aborigines before 1966.

Crude birth rates

The simplest method of measuring fertility is to relate the number of births to the mean population, which gives the crude birth rate. The crude birth rate measures the rate per thousand persons (irrespective of age or sex) at which the population has added to its numbers by way of births during a given period. Other methods of measuring fertility are shown on pages 183-5. The difference between the crude birth rate and the crude death rate is the rate of natural increase (the hatched area in plate 29, page 182). In the past 100 years the crude birth rate has shown a general downward trend. From 1967 to 1971 there was a small upward movement, as a consequence of the increasing number of young women from the postwar baby boom reaching maturity. There was again a decline after 1971.

CRUDE BIRTH RATES(a)

| Period — | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--------------------------|----------|--------|-------|-------|-------|-------|-------|-------|--------|-------|
| Average annual rates- | | | | | | | | | | |
| 1951-55 | _ | 21.78 | 22.42 | 24.11 | 23.25 | 25.37 | 25.58 | 29.37 | 32.22 | 22.86 |
| 1956-60 | • | 21.78 | 22.52 | 23.80 | 22.27 | 24.20 | 25.45 | 31.49 | 30.10 | 22.59 |
| 1961-65 | | 20.49 | 21.42 | 22.49 | 21.11 | 21.71 | 23.41 | 29.30 | 26.31 | 21.34 |
| 1966-70 | | 18.87 | 20.63 | 20.41 | 18.94 | 21.14 | 21.00 | 31.49 | 24.60 | 19.95 |
| Annual rates | <u> </u> | | - | | | | | | | |
| 1970 | | 19.52 | 21.16 | 20.90 | 19.52 | 21.74 | 21.09 | 33.09 | 26.36 | 20.55 |
| 1971 | | 21.35 | 21.51 | 21.84 | 19.55 | 23.50 | 21.27 | 32.69 | 28.00 | 21.62 |
| 1972 | | 20.39 | 20.20 | 20.95 | 18.37 | 20.99 | 19.90 | 29.23 | 25.68 | 20.39 |
| 1973 | | 18.52 | 18.66 | 19.83 | 16.97 | 19.12 | 18.46 | 29.30 | 24.24 | 18.81 |
| 1974 | | 18.09 | 18.17 | 19.23 | 16.53 | 18.39 | 18.42 | 27.60 | 24.25 | 18.33 |

(a) Number of births per 1,000 of mean population. Excludes particulars of full-blood Aborigines before 1966.

The birth rates in the table above are based on live births registered in the respective States and Territories. Some confinements, however, take place in States other than the State in which the mother usually resides, particularly in areas near State borders. The variations thus caused in the birth rates for the States and Territories by referring the birth registrations to the mother's usual residence are shown by the following corrected rates for 1973 and 1974 respectively—New South Wales, 18.61, 18.16; Victoria, 18.60, 18.11; Queensland, 19.75, 19.19; South Australia, 16.90, 16.48; Western Australia, 19.14, 18.42; Tasmania, 18.55, 18.53; Northern Territory, 30.33, 28.07; and Australian Capital Territory, 23.60, 23.40.

Fertility rates

Changes in the crude birth rate are in general indicative of changes in fertility. However, they may result from changes in the proportion of women of childbearing age in the population. Changes in the proportion of such women who are married may also affect fertility and the crude birth rate.

The fertility rates in the following table are for the census years 1881 to 1971. The births for the three years around the census are related to women of childbearing age as enumerated at each census. Although the childbearing age has been taken to be 15-44 years, births to younger and older women are included in the computations. Nuptial births are related to married women aged 15-44 years to give married fertility rates.

Although married fertility fell by 58 per cent between 1880-82 and 1970-72, total fertility and the crude birth rate fell by only 41 per cent. The effect of a decline in the fertility of married women

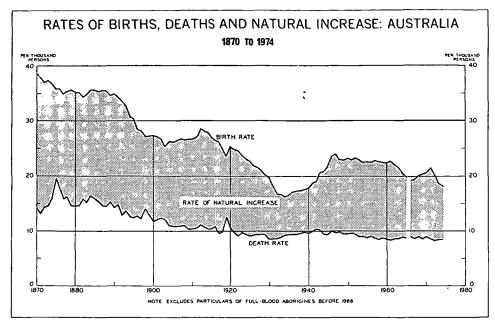


PLATE 29

on total fertility and the crude birthrate is partly offset by an increase in the proportion of such women in the population. In 1881 only 51 per cent of females aged 15-44 were married but in 1966, 68 per cent were married. Also during this time births to unmarried women increased from 14 to 29 per thousand for single, widowed and divorced females aged 15-44.

CRUDE BIRTH RATES AND FERTILITY RATES: AUSTRALIA, 1880-82 TO 1970-72(a)

| | | Average annu | al rates | | Index Nos (B | ase: 1880-82= | 100) |
|---------|---|------------------------|--|---|------------------------|--|---|
| | | | Fertility rate | s | | Fertility rate | s |
| Period | | Crude birth rate(b) | Births per 1,000 women aged 15-44 years | Nuptial births per 1,000 married women aged 15-44 years | Crude birth rate(b) | Births per 1,000 women aged 15–44 years | Nuptial births per 1,000 married women aged 15-44 years |
| 1880-82 | | 35.3 | 170 | 321 | 100 | 100 | 100 |
| 1890-92 | | 34.5 | 159 | 332 | 98 | 94 | 103 |
| 1900-02 | | 27.2 | 117 | 235 | 77 | 69 | 73 |
| 1910-12 | | 27.2 | 117 | 236 | 77 | 69 | 74 |
| 1920-22 | | 25.0 | 107 | 197 | 71 | 63 | 61 |
| 1932-34 | | 16.7 | 71 | 131 | 47 | 42 | 41 |
| 1946-48 | | 23.6 | 104 | 160 | 67 | 61 | 50 |
| 1953-55 | | 22.7 | 109 | 149 | 64 | 64 | 46 |
| 1960-62 | • | 22.5 | 112 | 154 | 64 | 66 | 48 |
| 1965-67 | | 19.5 | 95 | 132 | 55 | 56 | 41 |
| 1970-72 | | 20.8 | 100 | 134 | 59 | 59 | 42 |

⁽a) Excludes particulars of full-blood Aborigines before 1965-67. (b) Number of births per 1,000 of mean population.

Age-specific birth rates

Fertility within the childbearing group varies considerably, as may be seen from the five-year age-specific rates in the following table. These rates were obtained by dividing births according to age of mother by the estimated number of women in the corresponding five-year age group.

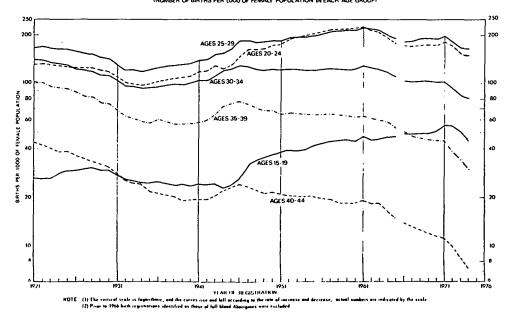
Total fertility is obtained by summing single age specific rates or by summing five-year age-specific rates and multiplying by 5. This total, divided by 1000, represents the hypothetical number of children a woman would bear during her lifetime if she experienced the rates of the year shown. Total fertility rose to a peak in 1961, of 3.4 children per woman, declined to 2.8 in 1967 and to 2.40 in 1974.

AGE-SPECIFIC BIRTH RATES(a): AUSTRALIA

| | Age gro | up (years) | | | | | | Total |
|---------------------|---------|------------|--------|--------|-------|-------|-------|-----------|
| Period | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | fertility |
| 1946–50(<i>b</i>) | 33.05 | 164.22 | 183.29 | 126.56 | 72.33 | 22.71 | 1.76 | 3.020 |
| 1951-55(b) | 39.54 | 192.81 | 192.97 | 123.51 | 65.05 | 20.50 | 1.53 | 3.180 |
| 1956-60(b) | 44.20 | 216.42 | 211.47 | 126.06 | 63.91 | 18.96 | 1.45 | 3.412 |
| 1961–65(b) | 46.50 | 203.95 | 207.15 | 122.38 | 59.18 | 17.54 | 1.19 | 3.289 |
| 1966-70(<i>b</i>) | 49.32 | 172.65 | 187.64 | 103.00 | 46.85 | 12.86 | 0.99 | 2.867 |
| 1970 . | 51.13 | 171.99 | 188.63 | 101.24 | 44.29 | 11.69 | 0.78 | 2.849 |
| 1971 . | 55.50 | 181.87 | 193.50 | 101.78 | 44.15 | 11.31 | 0.78 | 2.944 |
| 1972 . | 54.44 | 168.66 | 181.65 | 94.03 | 38.87 | 10.01 | 0.74 | 2.742 |
| 1973 . | 49.04 | 155.35 | 166.91 | 84.16 | 33.62 | 8.42 | 0.60 | 2.491 |
| 1974 | 45.24 | 150.08 | 164.49 | 81.46 | 30.01 | 7.37 | 0.46 | 2.396 |

⁽a) Number of births per 1,000 women in each age group. Excludes particulars of full-blood Aborigines before 1966. (b) Average annual rates.

AGE SPECIFIC BIRTH RATES: AUSTRALIA 1921 TO 1974 (NUMBER OF BIRTHS PER 1,000 OF FEMALE POPULATION IN EACH AGE GROUP)



Gross and net reproduction rates

The gross reproduction rate is derived from total fertility and the ratio of female to total births. It indicates the number of female children who would be born on average to women supposing the rates from which it was calculated were to apply throughout the reproductive period. It is an indication of the extent to which the population is reproducing itself except that it does not allow for females who failed to survive to the end of the childbearing period. The net reproduction rate allows for such mortality. It is obtained by multiplying the age-specific rates by the survivor proportions in the corresponding age group of the stationary or life table population. Mortality in childhood and young adulthood is now so low that there is little difference between current gross and net reproduction rates.

GROSS AND NET REPRODUCTION RATES(a): AUSTRALIA

| Net reproduction rate | Gross production rate | rep | | Year | Net reproduction rate | Gross production rate | rej | | Year —— |
|-----------------------------|-----------------------------|-----|------|----------|-----------------------------|-----------------------------|-----|------|----------------|
| (e)1.347 | 1.389 | | | 1970 | (b)1.416 | 1.494 | | | 1947 |
| (e)1.397 | 1.441 | | | 1971 | (c)1.499 | 1.559 | | | 1954 |
| (e)1.294 | 1.334 | | | 1972 | (d)1.672 | 1.728 | | | 1961 |
| (e)1.177 | 1.214 | | | 1973 | (e)1.359 | 1.402 | | | 968 |
| (e)1.121 | 1.156 | | | 1974 | (e)1.359 | 1.402 | | | 1969 |

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) 1946-1948 mortality experience used. (c) 1953-1955 mortality experience used. (d) 1960-1962 mortality experience used. (e) 1965-1967 mortality experience used.

In the following table a comparison is given of the gross and net reproduction rates recorded recently for various countries. The registration of vital events has not been fully established in many countries and consequently details for the calculation of reproduction rates for those countries are not available.

GROSS AND NET REPRODUCTION RATES: VARIOUS COUNTRIES

(Source: Population Index, April-June 1975, Office of Population Research, Princeton University)(a)

| | | Reprodu rate | ction | | | Reproduc. rate | tion |
|---------------------------|---------|-----------------|-------|--------------------------|--------|-------------------|------|
| Country | Period | Gross | Net | Country | Period | Gross | Net |
| Venezuela | 1970 | 2.73 | 2.44 | Belgium | 1970 | 1.09 | 1.06 |
| Panama | 1972 | 2.40 | 2.14 | Norway | | 1.08 | 1.06 |
| Ireland | 1970 | 1.96 | 1.88 | England and Wales . | 1972 | 1.06 | 1.03 |
| Trinidad and Tobago . | 1971 | 1.73 | 1.55 | Czechoslovakia | 1971 | 1.04 | 1.00 |
| Hong Kong | 1971 | 1.66 | 1.60 | German, Dem. Rep | 1971 | 1.04 | 1.00 |
| New Zealand | 1970 | 1.49 | 1.45 | Malta | 1973 | 1.02 | 0.96 |
| Singapore | 1970 | 1.49 | 1.40 | Denmark | 1972 | 0.99 | 0.97 |
| France | 1971 | 1.21 | 1.19 | United States of America | 1972 | 0.99 | 0.96 |
| Australia | 1973 | 1.21 | 1.12 | Canada | 1973 | 0.94 | 0.91 |
| Union of Soviet Socialist | | | | Austria | 1973 | 0.94 | 0.90 |
| Republics | 1972-73 | 1.19 | 1.14 | Sweden | 1972 | 0.93 | 0.92 |
| Romania | 1973 | 1.18 | 1.12 | Hungary | 1972 | 0.93 | 0.89 |
| Poland | 1973 | 1.10 | 1.05 | Germany, Fed. Rep. | 1971 | 0.93 | 0.89 |
| Yugoslavia | 1970 | 1.10 | 1.03 | Finland | 1970 | 0.89 | 0.86 |

(a) Source for statistics other than Australia.

Fertility of marriages

Estimates of the fertility of marriages may be made by relating nuptial births in each year to the marriages from which they could have resulted. Births to women of a certain number of years duration of marriage are related to the number of marriages taking place that number of years previously and the resulting rates are added to give a total for all durations, namely, the index of current marriage fertility.

The figure for a particular year gives the estimated number of children which a thousand marriages would produce according to the fertility conditions of that year.

Births are omitted from the calculation if the marriage did not take place in Australia. Births which occur overseas to Australian marriages cannot be included and hence some understatement is present.

The following table gives an analysis of the index, shown in the total column, according to duration of marriage, expressing the results as births per thousand marriages.

DURATION-SPECIFIC FERTILITY RATES(a): AUSTRALIA

| | | | | Duration | of marri | age (year | s) | | | | | | | |
|-------------------|--------|---|---|------------|------------|------------|------------|------------|------------------|------------|------------|-----------|----------------|----------------|
| Births occurri | ng in- | _ | | Under 1 | 1 | 2 | 3 | 4 | Total under 5 | 5-9 | 10-14 | 15-19 | 20 and over | Total |
| 1962 | | · | • | 389 | 318 | 324 | 290 | 247 | 1,568 | 781 | 308 | 101 | 22 | 2,780 |
| 1963 1964 | : | : | : | 384 368 | 307 288 | 318 296 | 288 275 | 241 231 | 1,538 1,458 | 756 712 | 302 283 | 105 99 | 24 21 | 2,725 2,573 |
| 1965 | • | • | ٠ | 341 | 275 | 287 | 261 | 222 | 1,386 | 662 | 260 | 90 | 19 | 2,417 |
| 1966 | • | | | 324 308 | 258 251 | 282 273 | 260 268 | 215 | 1,339 | 633 | 238 | 84 | 19 | 2,318 |
| 1967 1968 | : | : | : | 308 | 247 | 280 | 267 | 222 235 | 1,322 1,337 | 648 668 | 239 234 | 80 79 | 18 17 | 2,307 2,335 |
| 1969 1970 | • | • | | 290 278 | 246 236 | 279 275 | 270 262 | 231 231 | 1,316 1,282 | 688 675 | 233 230 | 75 75 | 17 16 | 2,329 2,278 |
| 1971 | : | : | · | 282 | 240 220 | 279 260 | 270 258 | 235 | 1,306 | 694 | 231 | 75 | 15 | 2,321 |
| 1972 1973 | : | : | : | 257 228 | 201 | 240 | 246 | 225 214 | 1,220 1,129 | 638 581 | 203 170 | 64 54 | 15 12 | 2,140 1,946 |
| 1974 | | | | 206 | 202 | 240 | 242 | 215 | 1,105 | 572 | 152 | 45 | 9 | 1,883 |

(a) Number of births per thousand marriages. From 1966 includes births of Aborigines where parents were legally married and excludes births of tribal marriages.

The summation of duration-specific rates for a particular year without reference to changing patterns in age at marriage or age of parents contributes to the hypothetical nature of the index. It is more satisfactory, therefore, to express the rates in cohort form by following the experience of marriages of a particular year cumulated over successive durations of marriage.

Since the fertile period of a marriage has a duration of up to some thirty years, completed fertility can only be determined with certainty for marriages occurring before 1940. Fortunately, because of the concentration of births in the early years of marriage the ultimate level of fertility and the size of family can be assessed with a fair degree of precision by the end of the fifteenth year. The most recent cohort to reach this duration was that of 1959-60.

To determine the relevant marriage cohorts from which births can have derived, a system of quarterly weights is applied. Births in 1969 to marriages in their third year, for example, could have arisen from marriages in any one of the eight quarters of 1966 and 1967. Proportions of the marriages in each of these quarters, namely $\frac{1}{8}$, $\frac{3}{8}$, $\frac{7}{8}$, and $\frac{1}{8}$ respectively, are summed to arrive at the total marriages in the 1966–67 cohort. This method is applied to all marriages of completed durations three or more years. The first two years of marriage are weighted on a monthly basis.

CUMULATED DURATION-SPECIFIC FERTILITY RATES, MARRIAGE COHORTS(a), AUSTRALIA

| 14 | | | Completed duration of marriage (years) | | | | | | | | | | | | |
|--------------------|------|-----|--|-----|-------------|-------|-------|-------|-------|--|--|--|--|--|--|
| Marriages year— | s oj | | 1 | 2 | 3 | 4 | 5 | 10 | 15 | | | | | | |
| 1955-56 | | | 352 | 674 | 983 | 1,262 | 1,511 | 2,262 | 2,497 | | | | | | |
| 1956-57 | | | 367 | 685 | 1,001 | 1,289 | 1,543 | 2,262 | 2,495 | | | | | | |
| 1957-58 | | | 365 | 684 | 1,001 | 1,291 | 1,538 | 2,219 | 2,441 | | | | | | |
| 1958-59 | | | 379 | 701 | 1,029 | 1,319 | 1,560 | 2,216 | 2,435 | | | | | | |
| 1959-60 | | | 382 | 714 | 1,038 | 1,326 | 1,557 | 2,210 | 2,417 | | | | | | |
| 1960-61 | | | 403 | 721 | 1,039 | 1,314 | 1,536 | 2,194 | | | | | | | |
| 1961-62 | | | 389 | 696 | 992 | 1,253 | 1,468 | 2,125 | | | | | | | |
| 1962-63 | | | 384 | 672 | 959 | 1,219 | 1,441 | 2,109 | | | | | | | |
| 1963-64 | | | 368 | 643 | 925 | 1,193 | 1,428 | 2,089 | | | | | | | |
| 1964-65 | | | 341 | 599 | 872 | 1,139 | 1,370 | 2,001 | | | | | | | |
| 1965-66 | | | 324 | 575 | 855 | 1,125 | 1,356 | | | | | | | | |
| 1966-67 | | | 308 | 555 | 834 | 1,096 | 1,331 | | | | | | | | |
| 1967-68 | | | 308 | 554 | 829 | 1,099 | 1,324 | | | | | | | | |
| 1968-69 | | | 290 | 526 | 805 | 1,063 | 1,277 | | | | | | | | |
| 1969-70 | | | 278 | 518 | <i>7</i> 78 | 1,024 | 1,239 | | | | | | | | |
| 1970-71 | | • , | 282 | 502 | 742 | 984 | ••• | | | | | | | | |
| 1971-72 | | . " | 257 | 458 | 698 | | | | | | | | | | |
| 1972-73 | | | 228 | 430 | | | | | | | | | | | |
| 1973-74 | | | 206 | | | | •• | | | | | | | | |

⁽a) Cumulated number of births per thousand marriages. From 1966 includes births of Aborigines where parents were legally married and excludes births of tribal marriages.

A more detailed analysis of the figures in the above table and of earlier cohorts has been made by tabulating the number of births within each duration of marriage which were first, second, third or subsequent births to the marriages under consideration. Details then derived of relative family size at each duration of marriage have enabled the computation of duration-parity-specific fertility rates.

Ex-nuptial live births

A birth is registered as ex-nuptial if the parents were not married to one another at the time of the confinement. Births to tribally-married Aborigines are classified as nuptial. Ex-nuptial births comprised 9.77 per cent of all births in 1973 and 9.55 per cent in 1974. The variations in the proportions of ex-nuptial live births as between the individual States and Territories for 1972 and for Australia at intervals from 1946 to 1972 are shown in the following tables. The high ex-nuptial birth rate for the Northern Territory is due in part to difficulties in identifying births where parents were tribally married. It is suspected that a substantial number of ex-nuptial births for the Northern Territory are in fact births to women adhering to tribal marriage systems.

EX-NUPTIAL LIVE BIRTHS: NUMBER AND PROPORTION, 1972

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|---------------------|--------|-------|-------|-------|-------|-------|-------|--------|--------|
| Number— | | | | | | | | | |
| 1973 | 8,726 | 4,611 | 5,241 | 1,800 | 2,497 | 743 | 383 | 197 | 24,198 |
| 1974 | 8,371 | 4,394 | 4,955 | 1,879 | 2,352 | 788 | 458 | 211 | 23,408 |
| Proportion of total | | | | | | | | | |
| births %— | | | | | | | | | |
| 1973 | 9.99 | 6.87 | 13.77 | 8.82 | 12.17 | 10.14 | 13.63 | 4.81 | 9.77 |
| 1974 | 9.72 | 6.64 | 13.09 | 9.31 | 11.64 | 10.65 | 16.31 | 4.83 | 9.55 |

EX-NUPTIAL LIVE BIRTHS: NUMBERS, PROPORTION AND RATES(a): AUSTRALIA

| | | Annual a | verage | | | | | | | | |
|------------------------------|---|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | 1946-50 | 1951-55 | 1956-60 | 1961-65 | 1966-70 | 1970 | 1971 | 1972 | 1973 | 1974 |
| Number Rates(b) | : | 7,349 0.95 | 7,999 0.91 | 10,027 1.02 | 13,798 1.25 | 18,937 1.57 | 21,367 1.71 | 25,629 2.01 | 25,659 1.97 | 24,198 1.84 | 23,408 1.75 |
| Proportion of total births % | | 4.04 | 3.97 | 4.51 | 5.92 | 7.88 | 8.30 | 9.27 | 9.68 | 9. 7 7 | 9.55 |

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Number of ex-nuptial births per 1,000 of mean population.

A further measure of ex-nuptiality is obtained by calculating the number of ex-nuptial births per thousand of the single, widowed and divorced female population aged from 15 to 44 years. On this basis, the number of ex-nuptial births per 1,000 unmarried women of ages 15 to 44 is as follows: 1946-48, 11.45; 1953-55, 14.45; 1960-62, 18.49; 1965-67, 20.96; and 1970-72, 28.59. Ex-nuptial births to married women, which are not recorded separately, are included in these figures and it is not possible to determine to what extent they influence the trend shown.

Legitimations

Under the provisions of the Commonwealth Marriage Act 1961-1966, which came into operation on 1 September 1963, a child whose parents were not married to each other at the time of its birth becomes legitimised on the subsequent marriage of its parents. The legitimation takes place whether or not there was a legal impediment to the marriage of the parents at the time of the child's birth and whether or not the child was still living at the time of the marriage, or in the case of a child born before 1 September 1963, at that date. Prior to the introduction of this Act, legitimations took place under Acts passed in the several States to legitimise children born before the marriage of their parents, provided that no legal impediment to the marriage existed at the time of birth. On registration in accordance with the provisions of the Legitimation Acts, any child who came within the scope of their purposes, born before or after the passing thereof, was deemed to be legitimate from birth by the post-natal union of its parents and entitled to the status of offspring born in wedlock. The number of children legitimised in Australia was 3,747 during 1973 and 3,509 during 1974.

Multiple births

Because the current Australian birth statistics are based only on those confinements which resulted in a live-born child, the number of confinements for multiple births for Australia is understated—firstly, because in cases where all children of a multiple birth are stillborn the confinement is excluded, and secondly, because some cases of multiple births in which only one child was live-born are registered as single births.

Number of confinements

The following table shows the number of single and multiple confinements and the number of live births. The table includes only those confinements resulting in at least one live birth.

| LIVE DIDTUS | AND | CONFINEMENTS. | 1074 |
|-------------|------|----------------|------|
| LIVE KIRIHS | ANIJ | CONFINENCENTS. | 19/4 |

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|----------------------------------|------------------|------------------|------------------|-----------------|-----------------|----------------|--------------|----------------|--------------------|
| | | • | LIV | VE BIRT | HS | · —— | | <u>-</u> | |
| Single births. Twins Other | 84,334 1,794 | 65,010 1,182 | 37,146 691 | 19,786 385 | 19,855 347 | 7,273 125 | 2,751 57 | 4,282 86 | 240,437 . 4,667 |
| multiple . | 34 | 9 | . 15 | 10 | 5 | | | | 73 |
| Total . | 86,162 | 66,201 | 37,852 | 20,181 | 20,207 | 7,398 | 2,808 | 4,368 | 245,177 |
| Of which— Males . Females. | 44,465 41,697 | 33,993 32,208 | 19,605 18,247 | 10,489 9,692 | 10,282 9,925 | 3,760 3,638 | 1,444 | 2,257 2,111 | 126,295 |
| STII | LBIRTHS | ASSOCIA | TED WI | TH MUL | TIPLE B | IRTHS IN | NCLUDED | ABOVE | |
| Twins Other | 34 | 4 | 15 | 1 | 7 | 3 | 1 | 2 | 67 |
| multiple . | 3 | | | | 1 | •• | | | 4 |
| | CONFIN | NEMENTS | RESULT | ING IN | BIRTHS | SHOWN | ABOVE | | |
| Nuptial . Ex-nuptial . | 76,978 8,282 | 61,245 4,361 | 32,592 4,912 | 18,119 1,863 | 17,701 2,333 | 6,554 783 | 2,324 456 | 4,116 210 | 219,629 23,200 |
| Total . | 85,260 | 65,606 | 37,504 | 19,982 | 20,034 | 7,337 | 2,780 | 4,326 | 242,829 |

Note. Owing to the registration procedure adopted in some States, it is possible that in some cases where one child only of a multiple pregnancy was liveborn, the confinement has been treated as a single birth. However, the numbers of multiple births are not significantly affected. See also page 189.

Multiple births recorded during 1974 comprised 2,367 cases of twins, 23 cases of triplets, and 2 cases of other multiple births; the resulting number of live-born and still born children respectively was 4,667 and 67 for twins, 65 and 4 for triplets, and 8 and nil for other multiple births. This represents an average of 9.75 recorded cases of twins and 0.09 recorded cases of triplets per 1,000 confinements or, alternatively, mothers of twins represented 1 in every 100 mothers and mothers of triplets 1 in every 10,558. Total cases of multiple births represented 9.85 per 1,000 confinements or 1 in every 102 mothers.

Confinements—relative ages of parents

The relative ages of the parents of children whose births were registered in 1974 have been tabulated separately for total nuptial confinements and for nuptial multiple confinements in *Births*, 1974 (4.4).

CONFINEMENTS, BY RELATIVE AGES OF PARENTS: AUSTRALIA, 1974

| | | | | | | Age of | mother (| years) | | | | | | | |
|---------|-----------------------|-------|-------|-----|--|-------------|----------|--------|--------|--------|--------|-------|----------------|---------------|---------|
| Age o | ige of father (years) | | | | | Under 15 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 and over | Not stated | Total |
| Unde | r 20 . | | | | | 3 | 2,935 | 504 | 10 | 2 | | | | 2 | 3,456 |
| 20-24 | | | | | | 8 | 10,489 | 30,310 | 3,322 | 204 | 12 | 2 | | | 44,347 |
| 25 - 29 | | | | | | 4 | 2,532 | 36,356 | 44,513 | 3,525 | 286 | 29 | 1 | | 87,246 |
| 30-34 | | | | | | | 427 | 6,358 | 27,459 | 15,650 | 1.303 | 95 | 4 | | 51,296 |
| 35-39 | | | | | | i | 106 | 1,135 | 5,620 | 9,479 | 4,358 | 323 | 7 | | 21,029 |
| 40-44 | | | | | | | 31 | 247 | 1,177 | 2.659 | 3,145 | 1,064 | 20 | | 8,343 |
| 45-49 | | | | | | | 6 | 70 | 352 | 611 | 966 | 672 | 72 | | 2,749 |
| 50-54 | | | | | | ż | 5 | 36 | 101 | 181 | 239 | 158 | 36 | | 758 |
| 55-59 | | | | | | | F. | 11 | 31 | 56 | 57 | 35 | 11 | | 202 |
| 60-64 | | | | | | | 2 | 5 | 11 | 15 | 11 | 18 | 5 | | 67 |
| 65 an | d over | (a) | | | | 2 | 26 | 34 | 31 | 15 | 14 | 7 | 2 | 5 | 136 |
| | Total | l nup | tial | | | 20 | 16,560 | 75,066 | 82,627 | 32,397 | 10,391 | 2,403 | 158 | 7 | 219,629 |
| | Total | lex- | nupti | al. | | 148 | 9,408 | 7,068 | 3,733 | 1,762 | 792 | 235 | 17 | 37 | 23,200 |
| | Total | l | | | | 168 | 25,968 | 82.134 | 86,360 | 34,159 | 11,183 | 2,638 | 175 | 44 | 242,829 |

Confinements-relative countries of birth of parents

The following table shows the relative countries of birth of parents of children whose births from nuptial confinements were registered during 1974.

NUPTIAL CONFINEMENTS, BY RELATIVE COUNTRIES OF BIRTH OF PARENTS AUSTRALIA, 1974

| | Country | of birth o | of mother | | | | | | | | | |
|----------------------------|----------------|---------------------|--|--------------|--------|-------|-------|------------------|-----------------|------------------------|---------------------------------------|------------------|
| Country of birth of father | Aus- tralia | New Zea- land | United King- dom and Ireland | Ger- many | Greece | Italy | Malta | Nether- lands | Yugo- slavia | Other Euro- pean | Other and un- speci- fied | Total fathers |
| Australia | 139,449 | 893 | 7,976 | 1,264 | 132 | 530 | 406 | 1,391 | 132 | 726 | 2,007 | 154,906 |
| New Zealand | 1,118 | 478 | 131 | 21 | 2 | 8 | 9 | 16 | 1 | 12 | 42 | 1,838 |
| United Kingdom and | | | | | _ | _ | | | - | | | -, |
| Ireland | 10,171 | 189 | 7,693 | 229 | 12 | 69 | 78 | 189 | 20 | 187 | 495 | 19,332 |
| Germany | 1,889 | 28 | 271 | 520 | 16 | 28 | 21 | 56 | 23 | 148 | 136 | 3,136 |
| Greece | 498 | 7 | 36 | 18 | 5,182 | 19 | Ť | 9 | 19 | 31 | 209 | 6,035 |
| Italy | 2,324 | 19 | 231 | 62 | 26 | 6,254 | 75 | 43 | 46 | 111 | 171 | 9,362 |
| Malta | 663 | 4 | 122 | 24 | - 3 | 17 | 1,458 | 19 | 3 | iò | 47 | 2,370 |
| Netherlands | 2,031 | 24 | 214 | 58 | 3 | 23 | 20 | 715 | ž | 32 | 96 | 3,218 |
| Yugoslavia | 588 | -9 | 94 | 84 | 63 | 62 | 16 | 24 | 3,958 | 83 | 54 | 5,035 |
| Other European . | 1,577 | 36 | 266 | 211 | 33 | 49 | 22 | 58 | 59 | 1,562 | 225 | 4,098 |
| Other and unspecified | 2,641 | 79 | 422 | 100 | 146 | 79 | 38 | 82 | 33 | 145 | 6,534 | 10,299 |
| Total mothers | 162,949 | 1,766 | 17,456 | 2,591 | 5,618 | 7,138 | 2,15 | 0 2,602 | 4,296 | 3,047 | 10,016 | 219,629 |

Confinements—age, duration of marriage and issue of mothers

The total number of nuptial confinements resulting in live births in 1974 was 219,629, comprising 217,455 single births, 2,149 cases of twins, 23 cases of triplets and two cases of other multiple births. The following tables relating to previous issue exclude the issue of former marriages and stillborn children. On the other hand, they include in some States children by the same father who were born to the mother prior to the marriage. Children born at the present confinement are included in the calculation of average issue shown.

The following table shows that in 1974 the average size of family increased fairly uniformly with the duration of the marriage. However, the average issue relates only to those women who gave birth in 1974. The table should not be interpreted to mean that, for example, *all* women who have been married for over ten years have an average of more than four children or those married twenty years, six children. The average issue of all married mothers who bore children in 1974 was 2.06 compared with 2.12 in 1973, 2.17 in 1972, 2.22 in 1971, and 2.27 in 1970.

NUPTIAL CONFINEMENTS BY DURATION OF MARRIAGE, AND AVERAGE ISSUE OF MOTHERS AUSTRALIA, 1974

| Duration o | of marr | iage | | Total nuptial confinements | Average issue of mother |
|------------|---------|-------|---|----------------------------|-------------------------------|
| Under 1 y | ear . | | | 24,238 | 1.05 |
| 1 year . | | | | 24,339 | 1.22 |
| 2 years . | | | | 29,524 | 1.49 |
| 3, . | | | • | 30,133 | 1.72 |
| 4 ,, . | | | | 26,487 | 1.96 |
| 5 | | | | 21,332 | 2.21 |
| 6 , . | | | | 15,902 | 2.48 |
| 7 ,, . | | | | 11,769 | 2.72 |
| 8 ,, . | | | | 9,009 | 2.96 |
| 9 ,, . | | | | 6,531 | 3.21 |
| 10-14 yea | rs . | | | 14,546 | 3.81 |
| 15-19 ,, | | | | 4,311 | 4.96 |
| 20-24 ,, | | | | 882 | 6.33 |
| 25 years a | nd ove | r · . | | 64 | 8.02 |
| Not stated | | • | | 562 | 3.48 |
| Tot | tal . | | | 219,629 | 2.07 |

NUPTIAL CONFINEMENTS, BY AGE OF MOTHER AND PREVIOUS ISSUE AUSTRALIA, 1974

| | | | | | | ears) | mother (y | Age of | | | | |
|-----------------------------|---------------|----------------|-------|--------|--------|--------|-----------|-------------|----|-------|---------|---------|
| Total married mothers | Not stated | 45 and over | 40–44 | 35-39 | 30-34 | 25-29 | 20-24 | Under 20 | | · | s issue | reviou |
| 86,248 | 5 | 21 | 319 | 1,475 | 5,758 | 25,815 | 39,475 | 13,380 | | | | |
| 75,996 | 1 | 11 | 298 | 2,024 | 9,482 | 33,501 | 27,720 | 2,959 | | | | |
| 34,810 | | 13 | 354 | 2,215 | 8,956 | 16,594 | 6,453 | 225 | | | | |
| 13,362 | | 18 | 382 | 1,908 | 4,876 | 4,986 | 1,179 | 13 | | | | |
| 4,784 | | 18 | 308 | 1,181 | 1,903 | 1,181 | 193 | | | | | |
| 2,195 | | 19 | 244 | 687 | 841 | 370 | 34 | | | | | |
| 1,038 | | 11 | 176 | 409 | 317 | 121 | 4 | | | | | |
| 533 | | 12 | 110 | 223 | 148 | 39 | 1 | | | | | |
| 294 | | 13 | 85 | 128 | 58 | 10 | | | | | | |
| 348 | | 22 | 127 | 140 | 55 | 4 | | | | | ver | and c |
| 21 | 1 | | | 1 | 3 | 6 | 7 | 3 | • | | ited | lot sta |
| | | | | | | | | | ed | marri | Total | |
| 219,629 | 7 | 158 | 2,403 | 10,391 | 32,397 | 82,627 | 75,066 | 16,580 | | hers | mot | |

Multiple births-previous issue of mothers

Of married mothers of twins in 1974, 759 had no previous issue either living or dead, 722 had one child previously, 381 had two previous issue, 166 had three, 52 had four, 25 had five, 19 had six, 9 had seven, 7 had eight, 7 had nine or more and 2 had unknown previous issue. Of the 23 cases of nuptial triplets and 2 cases of other multiple births registered during 1974, 13 mothers had no previous issue, 4 had one, 4 had two, 2 had three and 2 had four previous issue.

Nuptial first births

A nuptial first birth is defined as the first birth to the existing marriage. About two-thirds of first births occur to women aged under 25, and about half occur within the first two years of marriage (in 1974, 27 per cent in the first and 23 per cent in the second year).

The following table shows the number of nuptial first births classified by grouped ages of mothers and grouped durations of marriage of mothers.

NUPTIAL FIRST BIRTHS, BY AGE OF MOTHER AND DURATION OF MARRIAGE AUSTRALIA, 1974

| | Age of | mother (ye | ars) | | | | | | |
|---|--------------|--------------|--------------|-----------|-----------|-------|----------------|---------------|----------------|
| Duration of marriage | Under 20 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 and over | Not stated | Total |
| Under 8 months | 8,425 383 | 5,426 | 1,227 249 | 401 91 | 126 30 | 34 | 1 | 1 | 15,641 |
| 8 months | 363 496 | 686 1.066 | 418 | 144 | 41 | 6 | • • | • • • | 1,441 2,171 |
| 10 " | 492 | 1,069 | 385 | 141 | 37 | š | | | 2,127 |
| iĭ " : : : : | 465 | 1,019 | 365 | 125 | 50 | ž | :: | :: | 2,031 |
| Total under 1 year . | 10,261 | 9,266 | 2,644 | 902 | 284 | 52 | 1 | 1 | 23,411 |
| I year and under 2 years . | 2,491 | 11,532 | 4,110 | 1,254 | 344 | 77 | 3 | | 19,811 |
| 2 years ,, ,, 3 ,, . | 439 | 10,037 | 4,621 | 884 | 218 | 41 | 2 | 2 | 16,244 |
| 3 ,, ,, ,, 4 ,, . | 73 | 5,761 | 4,835 | 601 | 121 | 33 | 3 | | 11,427 |
| 4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 12 | 2,128 | 4,165 | 491 | 86 | 18 | 4 | ż | 6,904 |
| 5 ,, ,, ,, 10 ,, . | 3 | 717 | 5,349 | 1,314 | 212 | 39 | Ş | 2 | 7,641 |
| 10 ,, ,, ,, 15 ,, . | | | 82 | 296 | 142 | 22 | 1 | | 543 |
| 15 years and over | | 11 | ٠. | 12 | 62 | 36 | 2 | • • | 112 |
| Not stated | 101 | 34 | 9 | 4 | 6 | 1 | • • | • • | 155 |
| Total | 13,380 | 39,475 | 25,815 | 5,758 | 1,475 | 319 | 21 | 5 | 86,248 |

The following table shows for nuptial confinements, a comparison between the numbers of mothers having their first confinement and those having a subsequent confinement.

NUPTIAL FIRST BIRTHS AND SUBSEQUENT CONFINEMENTS(a)
AUSTRALIA

| | | | | Nuptial co | | Proportion of first to total nuptia confinements | |
|-----------|-------|---|---|------------|---------|--|------------|
| Period | | | | First | Other | Total | (per cent) |
| Annual a | verag | e | | | | | |
| 1946-50 |) . | | | 63,413 | 109,044 | 172,457 | 36.77 |
| 1951-5 | 5. | | | 63,062 | 128,176 | 191,238 | 32.98 |
| 1956-60 |) . | | | 65,695 | 144,352 | 210,047 | 31.28 |
| 1961–63 | 5. | | • | 69,280 | 147,549 | 216,829 | 31.95 |
| 1966-70 | ο. | | | 81,103 | 138,000 | 219,103 | 37.02 |
| Annual to | tal- | | | | | | |
| 1970 | | | | 88,412 | 145,227 | 233,639 | 37.84 |
| 1971 | | | | 95,418 | 152,820 | 248,238 | 38.44 |
| 1972 | | | | 91,683 | 145,272 | 236,955 | 38.69 |
| 1973 | | | | 85,707 | 135,575 | 221,282 | 38.73 |
| 1974 | | | | 86,248 | 133,381 | 219,629 | 39.27 |

⁽a) Excludes particulars of full-blood Aborigines before 1966.

Stillbirths

From 1972, statistics of stillbirths have been compiled on the basis of amended legislation which provides for all foetal deaths of at least twenty weeks gestation (or 400 grammes weight) to be registered. The dates on which the legislation came into effect for each State are as follows: New South Wales, January 1969; Victoria, May 1971; Queensland, October 1967; South Australia, January 1968; Western Australia, January 1968; Tasmania, March 1967; Northern Territory, September 1964; Australian Capital Territory, September 1969. Comparisons of the figures and rates prior to 1972 are affected by the differences in the definitions adopted by the various states.

STILLBIRTHS(a)

| Period | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|----------|-------|---|------------|------|-----|------|------|------|-------|--------|----------|
| Annual a | verag | e | | | | | | | | | |
| 1946-5 | 0. | | 1,405 | 949 | 626 | 368 | 274 | 161 | n.a. | 12 | (b)3,795 |
| 1951-5 | 5. | | 1,239 | 849 | 581 | 290 | 271 | 139 | 8 | 16 | 3,393 |
| 1956-6 | 0. | | 1,253 | 839 | 558 | 274 | 235 | 109 | 6 | 19 | 3,293 |
| 1961–6 | 5. | | 1,104 | 794 | 468 | 264 | 194 | 87 | 17 | 18 | 2,946 |
| 1966-7 | 0. | | 876 | 767 | 341 | 215 | 192 | 86 | (c)39 | 27 | 2,543 |
| Annual t | otal— | | | | | | | | | | |
| 1970 | | | 888 | 782 | 312 | 200 | 211 | 80 | (c)30 | 29 | 2,532 |
| 1971 | | | 893 | 760 | 329 | 199 | 206 | 67 | (c)24 | 41 | 2,519 |
| 1972 | | | 1,151 | 842 | 429 | 229 | 258 | 88 | (c)44 | 48 | 3,089 |
| 1973 | | | 1.028 | 802 | 387 | 244 | 272 | 98 | (c)40 | 53 | 2,924 |
| 1974 | | | 1,036 | 787 | 406 | 236 | 274 | 82 | (c)51 | 42 | 2,914 |

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Excludes Northern Territory. (c) Figures from 1966 include foetal deaths occurring in remote localities for which the period of gestation was not known. The numbers of such cases were: 1970, 14; 1971, 3; 1972, 11; 1973, 5; 1974, 13. The Registration Ordinance requires registration of any foetal death of at least twenty weeks gestation.

PROPORTION OF STILLBIRTHS(a)

| Period | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-----------|------|--------|---|--------|------|------|------|------|------|------|--------|---------|
| Average a | nnua | l rate | | | | | | | | | | |
| 1946-5 |) . | • | | 20.0 | 19.6 | 21.9 | 22.1 | 20.5 | 22.3 | n.a. | 16.3 | (b)20.5 |
| 1951-5 | 5. | | | 16.5 | 15.5 | 18.4 | 15.8 | 17.0 | 17.5 | 17.2 | 17.1 | 16.6 |
| 1956-6 | ο. | | | 15.5 | 13.5 | 16.1 | 13.5 | 13.7 | 12.6 | 8.6 | 14.3 | 14.6 |
| 1961–6 | 5. | • | • | 13.1 | 12.0 | 13.1 | 12.2 | 11.4 | 10.2 | 18.4 | 9.3 | 12.5 |
| 1966–7 | ο. | ٠. | | 10.5 | 11.0 | 9.5 | 10.0 | 9.8 | 10.7 | 18.3 | 9.7 | 10.5 |
| Annual r | ate | | | | | | | | | | | |
| 1970 | | | | 9.9 | 10.6 | 8.2 | 8.8 | 9.7 | 9.7 | 11.3 | 8.3 | 9.7 |
| 1971 | | | | 9.0 | 10.0 | 8.2 | 8.6 | 8.4 | 7.9 | 8.4 | 10.0 | 9.0 |
| 1972 | | | | 11.9 | 11.6 | 10.8 | 10.4 | 11.5 | 11.1 | 15.9 | 11.7 | 11.5 |
| 1973 | | | | 11.6 | 11.8 | 10.1 | 11.8 | 13.1 | 13.2 | 14.0 | 12.8 | 11.7 |
| 1974 | | | | 11.9 | 11.7 | 10.6 | 11.6 | 13.4 | 11.0 | 17.8 | 9.5 | 11.7 |

(a) Number of stillbirths per 1,000 of all births (live and still). Excludes particulars of full-blood Aborigines before 1966. (b) Excludes Northern Territory.

Note. Because of the smallness of the numbers of stillbirths occurring in the Australian Capital Territory and the Northern Territory the rates for these Territories are subject to considerable fluctuation.

Mortality

This section contains statistics of general mortality and infant mortality. Statistics of foetal deaths (stillbirths) are shown separately in the preceding section. For the registration of a death the period allowed is 8 days in Tasmania, 14 days in South Australia, Western Australia, Australian Capital Territory, and Northern Territory, 21 days in Victoria, and 30 days in New South Wales and Queensland.

Number of deaths

The following table shows the number of deaths registered in each State and Territory. Stillbirths, although registered as both births and deaths in some States are excluded from the death statistics.

| Period | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|-----------------|---|---|--------|--------|--------|--------|-------|-------|------|--------|----------|
| Annual average | | | | | | | | | | | |
| 1946-50(b) | | | 29,552 | 21,827 | 10,357 | 6,507 | 4,802 | 2,459 | 76 | 103 | 75,683 |
| 1951-55 . | | | 32,135 | 22,900 | 11,187 | 7,182 | 5,263 | 2,576 | 109 | 131 | 81,483 |
| 1956-60 . | | | 34,002 | 24,254 | 12,008 | 7,732 | 5,523 | 2,668 | 117 | 184 | 86,488 |
| 1961–65 . | | | 37,514 | 26,569 | 13,570 | 8,388 | 6,043 | 2,939 | 152 | 290 | 95 465 |
| 1966-70 . | | | 41,249 | 29,265 | 15,711 | 9,562 | 7,208 | 3,231 | 540 | 497 | 107,263 |
| Annual total- | | | | | | | | | | | |
| 1970 . | | | 43,601 | 30,335 | 17,055 | 10,138 | 7,543 | 3,174 | 608 | 594 | 113,048 |
| 1971 . | | | 41,691 | 30,598 | 16,339 | 9,686 | 7,806 | 3,295 | 637 | 598 | 110,650 |
| 1972 | | | 41,652 | 29,856 | 16,598 | 9,764 | 7,441 | 3,227 | 553 | 669 | 109,760 |
| 1973 . 1974— | • | • | 41,122 | 30,696 | 16,732 | 9,835 | 7,845 | 3,347 | 580 | 665 | г110,822 |
| Males . | | | 24,168 | 16,704 | 10.365 | 5,728 | 4,550 | 1.954 | 396 | 434 | 64,299 |
| Females | | • | 19,831 | 14,171 | 7,763 | 4,508 | 3,228 | 1,530 | 179 | 324 | 51,534 |
| Persons | | | 43,999 | 30,875 | 18,128 | 10,236 | 7,778 | 3,484 | 575 | 758 | 115,833 |

(a) Excludes particulars of full-blood Aborigines before 1966. (b) Excludes deaths of defence personnel and of internees and prisoners of war from overseas for the period September 1939 to June 1947.

Note. Annual averages for each five-year period from 1861 to 1950 were published in Year Book No. 39, page 597.

Crude death rates

The simplest method of measuring mortality is to relate the number of deaths for a given period to the mean population for that period, which gives the crude death rate. This rate for a given period measures the number per thousand of population by which the population is depleted through deaths during that period.

CRUDE DEATH RATES(a)

| Period | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-----------|-------|------|---|--------|-------|-------|------|------|------|------|--------|-------|
| Average a | nnual | rate | _ | | | | | | | | | |
| 1946-50 | (b) | | | 9.70 | 10.37 | 9.13 | 9.76 | 9.23 | 9.30 | 6.27 | 5.31 | 9.74 |
| 1951-55 | `. | | | 9.49 | 9.55 | 8.71 | 9.25 | 8.49 | 8.48 | 6.86 | 4.58 | 9.25 |
| 1956-60 | | | | 9.20 | 8.91 | 8.36 | 8.62 | 7.90 | 7.97 | 5.32 | 4.31 | 8.78 |
| 1961–65 | | | • | 9.27 | 8.73 | 8.63 | 8.28 | 7.78 | 8.15 | 4.95 | 3.94 | 8.75 |
| 1966-70 | | | | 9.43 | 8.78 | 9.07 | 8.50 | 7.84 | 8.50 | 7.97 | 4.40 | 8.90 |
| Annual ra | te— | | | | | | | | | | | |
| 1970 | | | | 9.62 | 8.79 | 9.50 | 8.75 | 7.59 | 8.18 | 7.67 | 4.51 | 9.02 |
| 1971 | | | | 9.04 | 8.72 | 8.93 | 8.23 | 7.57 | 8.42 | 7.37 | 4.15 | 8.66 |
| 1972 | | | | 8.91 | 8.39 | 8.86 | 8.21 | 7.04 | 8.21 | 6.04 | 4.26 | 8.45 |
| 1973 | | | | 8.72 | 8.53 | 8.72 | 8.18 | 7.31 | 8.43 | 6.05 | 3.93 | 8.42 |
| 1974— | | | | | | | | | | | | |
| Males | · . | | | 10.14 | 9.18 | 10.45 | 9.41 | 8.11 | 9.72 | 7.21 | 4.71 | 9.58 |
| Fema | les | | | 8.34 | 7.77 | 7.95 | 7.37 | 6.01 | 7.63 | 3.82 | 3.68 | 7.73 |
| Per | sons | | | 9.24 | 8.47 | 9.21 | 8.39 | 7.08 | 8.68 | 5.65 | 4.21 | 8.66 |

⁽a) Number of deaths per 1,000 of mean population. Excludes particulars of full-blood Aborigines before 1966. (b) Excludes deaths of defence personnel, etc., from September 1939 to June 1947.

A graph showing the crude death rate for each year from 1870 to 1974 is shown on plate 29 page 182.

The crude death rate is affected by the particular sex and age composition of the population. While it is an element in the rate of natural increase of the population it cannot validly be used to compare the relative incidence of mortality in different populations. The crude death rate will tend to be low if the community contains a large proportion of young people and high if the population is elderly. Age specific death rates and true death rates are a guide to comparative mortality.

True death rates

A composite measure of mortality unaffected by the age structure of the population can be obtained from life tables. The basic life table functions include expectation of life remaining at each year of age. The reciprocal of the expectation of life at birth is known as the true death rate, since, if the expectation of life of a person at birth is say, fifty years, then each person will on the average die fifty years after birth, so that in a stationary population one person in fifty or twenty per thousand, will die each year. The true death rate for a given period is unaffected by the particular age distribution of that period and is determined solely by the mortality experience of the period as manifested in the rate of mortality from each year of age to the next. The next table sets out true death rates for the periods covered by Australian life tables.

MORTALITY

TRUE DEATH RATES: AUSTRALIA

| | | True death rate(a) | | | | | |
|---------|--|--------------------|------------|--|--|--|--|
| Period | | Males(b) | Females(c) | | | | |
| 1946-48 | | 15.14 | 14.16 | | | | |
| 1953-55 | | 14.89 | 13.75 | | | | |
| 1960-62 | | 14.72 | 13.48 | | | | |
| 1965-67 | | 14.79 | 13.49 | | | | |
| 1969 . | | 14.81 | 13.40 | | | | |
| 1970 . | | 14.84 | 13.49 | | | | |
| 1971 . | | 14.72 | 13.42 | | | | |
| 1972 . | | 14.66 | 13.34 | | | | |
| 1973 . | | 14.66 | 13.30 | | | | |

(a) Excludes particulars of full-blood Aborigines before 1965-67. (b) Number of deaths per 1,000 males in stationary population. (c) Number of deaths per 1,000 females in stationary population.

The crude death rates of Australia and the more populous countries of the world for the latest available year are shown in the table in International Vital Statistics at the end of this chapter.

Australian Life Tables

It has been the practice at each census from 1911 onwards to prepare complete life tables representative of the mortality experience of Australia. The mortality of the Australian population for the thirty years from 1881 to 1910 inclusive was investigated in 1911 by the Commonwealth Statistician. Tables were compiled for each State and for Australia as a whole in respect of each sex for each of the decennial periods 1881–90, 1891–1900 and 1901–10. These compilations furnished a comprehensive view of Australian mortality in respect of sex, time, and geographical distribution, and practically superseded all life tables prepared in Australia prior to 1911. For subsequent censuses the official life tables have been prepared only for Australia as a whole. They have been based upon recorded census population and the deaths of the three years around the census. The 1965–67 life tables included particulars of Aborigines for the first time. The 1920–22 life tables were prepared by the Commonwealth Statistician, those of 1932–34, 1946–48, 1953–55, 1960–62 and 1965–67 by the Commonwealth Actuary. Full particulars of the data used and the methods of construction are to be found in the reports of the Commonwealth Actuary.

COMPLETE EXPECTATION OF LIFE (ex) AT SELECTED AGES

| | | | Males | | | | Females | | | | |
|---------|--|---|---------|---------|-----------|-----------|---------|---------|---------|--------------|--|
| Age (x) | | | 1901–10 | 1953-55 | 1960-62 1 | 965–67(a) | 1901–10 | 1953-55 | 1960-62 | 2 1965–67(a) | |
| 0 | | | 55.20 | 67.14 | 67.92 | 67.63 | 58.84 | 72.75 | 74.18 | 74.15 | |
| 10 | | | 53.53 | 59.53 | 59.93 | 59.50 | 56.38 | 64.78 | 65.92 | 65.75 | |
| 20 | | | 44.74 | 50.10 | 50.40 | 49.98 | 47.52 | 55.06 | 56.16 | 56.00 | |
| 30 | | | 36.52 | 40.90 | 41.12 | 40.72 | 39.33 | 45.43 | 46.49 | 46.34 | |
| 40 | | | 28.56 | 31.65 | 31.84 | 31.44 | 31.47 | 35.99 | 36.99 | 36.85 | |
| 50 | | | 21.16 | 22.92 | 23.13 | 22.76 | 23.69 | 27.03 | 27.92 | 27.83 | |
| 60 | | | 14.35 | 15.47 | 15.60 | 15.27 | 16.20 | 18.78 | 19.51 | 19.52 | |
| 70 | | | 8.67 | 9.59 | 9.77 | 9.52 | 9.96 | 11.62 | 12.19 | 12.23 | |
| 80 | | · | 4.96 | 5.47 | 5.57 | 5.51 | 5.73 | 6.30 | 6.68 | 6.72 | |

(a) Includes particulars of full-blood Aborigines.

Note, e_x = complete expectation of life at specified ages.

The progress towards lower mortality rates evident over the past sixty years or more, did not continue in the 1960s. Expectation of life at birth was slightly less in 1965-67 than in 1960-62 for both males and females. The detailed 1965-67 life tables show that lower mortality rates were experienced only at ages 0-14, 28-32 and over 88 for males and at ages 0-13 and over 72 for females.

Age distribution at death

Age at death is recorded for statistical purposes in days for the first week of life, in weeks for the first four weeks, in months for the first year and in completed years of life thereafter. These ages are usually combined in groups for publication, the most common being weeks for the first four weeks, months or groups of months for the first year, single years of age for the first five years, and thereafter the five-year groups 5–9 years, 10–14 years, etc. A summary in this form is given for Australia in the following table.

DEATHS, BY AGE AT DEATH AND SEX: AUSTRALIA, 1973

| Age at death | Males | Fe- males | Per- sons | Age at death | Males | Fe- males | Per- sons |
|-------------------------------|-------|--------------|--------------|-------------------|--------|--------------|--------------|
| Under 1 week | 1,537 | 1,083 | 2,620 | 5- 9 years . | 270 | 192 | 462 |
| 1 week and under 2 weeks | 87 | 67 | 154 | 10–14 ,, | 250 | 155 | 405 |
| 2 weeks and under 3 weeks . | 47 | 39 | 86 | 15–19 ,, | 900 | 330 | 1,230 |
| 3 weeks and under 4 weeks . | 40 | 27 | 67 | 20–24 ,, | 1,003 | 296 | 1,299 |
| | | | | 25–29 ,, | 716 | 291 | 1,007 |
| Total under 4 weeks | 1,711 | 1,216 | 2,927 | 30–34 ,, | 632 | 330 | 962 |
| | | | | 35–39 ,, | 821 | 477 | 1,298 |
| | | | | 40-44 ,, | 1,399 | 755 | 2,154 |
| 4 weeks and under 3 months . | 244 | 185 | 429 | 45–49 ,, | 2,484 | 1,377 | 3,861 |
| 3 months and under 6 months . | 227 | 198 | 425 | 50-54 ,, | 3,483 | 1,817 | 5,300 |
| 6 months and under 12 months. | 174 | 130 | 304 | 55-59 ,, | 4,772 | 2,515 | 7,287 |
| | | | | 60-64 ,, | 6,750 | 3,388 | 10,138 |
| Total under 1 year | 2,356 | 1,729 | 4,085 | 65–69 ,, | 7,974 | 4,241 | 12,215 |
| · | | | | 70–74 | 8,400 | 5,933 | 14,333 |
| 1 year | 195 | 161 | 356 | 75–79 ,, | 7,480 | 7,331 | 14,811 |
| 2 years | 139 | 85 | 224 | 80–84 | 6,349 | 8,149 | 14,498 |
| 3, | 101 | 65 | 166 | 85 years and over | 5,027 | 9,549 | 14,576 |
| 4 " | 78 | 58 | 136 | Age not stated . | , 9 | 10 | 19 |
| Total under 5 years | 2,869 | 2,098 | 4,967 | Total all ages . | 61,588 | 49,234 | 110,822 |

There are different mortality rates at various stages of life, and the actual number of deaths in any period is related to the numbers living at the respective stages. Changes in the number of deaths from one period to another are associated with changes in the rate of mortality in the various age groups and by the changed proportions of persons living in the different groups. The combined effect of various influences, i.e. the decline in the rate of mortality, the long term decline in the birthrate, and the effects of past and present migration on the age distribution of the population, is shown in the following table, which shows the proportion of deaths in various age groups in five-year periods and for the latest available year.

PROPORTION OF DEATHS IN EACH AGE GROUP: AUSTRALIA (Per cent)

| 4 . 7 . 7 | | | | | | 1973 | | |
|-------------------------|---------|---------|---------|---------|---------|--------|---------|---------|
| Age at death (years) | 1946–50 | 1951-55 | 1956–60 | 1961–65 | 1966–70 | Males | Females | Persons |
| Under 1 year . | 6.48 | 5.77 | 5.41 | 4.74 | 4.06 | 3.83 | 3.51 | 3.69 |
| 1- 4 years . | 1.46 | 1.48 | 1.19 | 0.96 | 0.81 | 0.83 | 0.75 | 0.80 |
| 5–19 ,, . | 1.89 | 1.85 | 1.76 | 1.76 | 1.83 | 2.31 | 1.38 | 1.89 |
| 20-39 ,, . | 5.69 | 5.18 | 4.64 | 4.26 | 4.12 | 5.15 | 2.83 | 4.12 |
| 40–59 ,, | 18.72 | 17.54 | 17.02 | 17.28 | 17.37 | 19.71 | 13.13 | 16.79 |
| 60-64 ,, . | 9.61 | 9.63 | 8.75 | 8.74 | 8.87 | 10.96 | 6.88 | 9.15 |
| 65 and over . | 56.12 | 58.52 | 61.20 | 62.24 | 62.92 | 57.20 | 71.50 | 63.56 |
| Age not stated. | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 |
| Total . | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

(a) Excludes particulars of full-blood Aborigines before 1966.

A table showing these proportions for males and females separately for the period 1901 to 1950 was published in Year Book No. 39, page 614.

Age-specific death rates

In previous issues of the Year Book, average annual age-specific death rates, i.e. the average number of deaths per 1,000 of population in each age group, were given for each State and Australia for the periods 1932-1934, 1946-1948, 1953-1955, 1960-1962 and 1965-1967 (see Year Books, No. 37, pp. 778-9, No. 39, pp. 615-6, No. 44, pp. 640-1, No. 52, p. 253, and No. 55, p. 189). These rates were based on the age distribution of the population at the relevant censuses.

AGE-SPECIFIC DEATH RATES(a): 1973

| Age group (y | ears) |) | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust.(b) |
|--------------------|-------|---|-----|---------|--------|------------------|-----------------|-----------------|------------------|----------------|
| | | | | | М | ALES | | | | |
| Under 1(c) | | | | 19.59 | 15.29 | 19.40 | 16.61 | 22.83 | 18.70 | 18.56 |
| 1-4 | | | | 0.99 | 0.83 | 1.10 | 1.02 | 1.08 | 0.92 | 0.98 |
| 5-9. | | | | 0.38 | 0.51 | 0.47 | 0.36 | 0.38 | 0.62 | 0.44 |
| 10-14 . | | | | 0.34 | 0.41 | 0.59 | 0.21 | 0.44 | 0.23 | 0.39 |
| 15-19 . | | | | 1.35 | 1.18 | 2.10 | 1.67 | 1.71 | 1.81 | 1.52 |
| 20-24 . | | | | 1.68 | 1.54 | 2.41 | 1.33 | 1.99 | 1.92 | 1.7 |
| 25-29 . | | | - | 1.30 | 1.17 | 1.65 | 1.25 | 1.41 | 1.34 | 1.3 |
| 30-34 | | | | 1.44 | 1.19 | 1.88 | 1.26 | 1.64 | 1.06 | 1.40 |
| 35-39 | | | | 2.04 | 1.99 | 2.63 | 1.83 | 2.13 | 2.93 | 2.13 |
| 40-44 . | • | | • | 3.89 | 3.21 | 3.95 | 2.73 | 3.35 | 3.76 | 3.5 |
| 45-49 | · | • | • | 6.28 | 6.31 | 6.85 | 5.38 | 5.59 | 6.29 | 6.2 |
| 50-54 . | • | • | • | 10.05 | 9.28 | 10.24 | 9.38 | 8.74 | 10.24 | 9.74 |
| 55-59 . | • | • | • | 16.11 | 15.80 | 16.76 | 15.43 | 13.84 | 18.52 | 16.00 |
| 60-64 | • | • | • | 28.17 | 25.13 | 26.73 | 24.57 | 24.16 | 25.18 | 26.30 |
| 65-69 | • | • | • | 43.11 | 42.31 | 38.36 | 41.60 | 39.27 | 43.01 | 41.60 |
| 70-74 | • | • | • | 66.58 | 66.41 | 56.84 | 64.26 | 62.53 | 62.96 | 64.1 |
| 75-79 | • | • | • | 99.55 | 108.66 | 90.78 | 94.46 | 99.72 | 99.95 | 160.0 |
| 80–84 | • | • | • | 148.43 | 162.45 | 132.73 | 146.57 | 160.13 | 143.53 | 149.8 |
| 85 and over | : | • | • | 231.70 | 255.35 | 204.35 | 234.21 | 223.76 | 244.41 | 233.4 |
| | | | | <u></u> | FEI | MALES | | | | |
| Under 1(c) | | | | 14.42 | 13.20 | 15.52 | 10.27 | 15.37 | 18.70 | 14.3 |
| 1-4. | • | • | • | 0.64 | 0.67 | 1.00 | 0.67 | 0.83 | 0.45 | 0.7 |
| 1- 4 · 5- 9 · | • | • | • | 0.04 | 0.33 | 0.37 | 0.07 | 0.30 | 0.43 | 0.7 |
| 10–14 . | • | • | • | 0.31 | 0.33 | 0.16 | 0.21 | 0.27 | 0.44 | 0.2 |
| 15-19 . | • | • | • | 0.28 | 0.26 | 0.16 | 0.53 | 0.65 | 0.48 | 0.5 |
| 20-24 . | • | • | • | 0.55 | 0.52 | 0.76 | 0.40 | 0.50 | 0.44 | 0.5 |
| 20-24 . 25-29 . | • | • | • | 0.59 | 0.52 | 0.59 | 0.39 | 0.53 | 0.63 | 0.5 |
| 30-34 . | • | • | • | 0.39 | 0.74 | 1.08 | 0.55 | 0.50 | 0.85 | 0.8 |
| 35-39 . | • | • | • | 1.35 | 1.14 | 1.64 | 0.88 | 1.32 | 1.42 | 1.3 |
| | • | • | • | | | 2.34 | 1.87 | 1.70 | 1.79 | 2.0 |
| 40-44 . | • | • | • | 2.16 | 1.89 | 4.57 | 3.19 | 3.18 | 2.92 | 3.6 |
| 45-49 . | • | • | • | 3.71 | 3.31 | 5.50 | 4.57 | 5.18 | 4.61 | 5.1 |
| 50-54 . | ٠ | • | • | 5.32 | 5.07 | 3.30 8.41 | 6.83 | 8.38 | 9.11 | 8.2 |
| 55-59 . | • | • | • | 8.54 | 7.99 | 11.71 | 12.02 | 13.24 | 11.53 | 12.5 |
| 60-64 . | • | • | • | 12.74 | 12.84 | | | | | 12.3 |
| 65–69 . | • | • | • . | 20.45 | 20.30 | 17.80 | 19.00 | 17.42 | 18.12 | |
| 70-74 . | • | • | • | 34.63 | 36.23 | 32.37 | 32.40 | 31.08 | 40.14 | 34.4 |
| 75–79 . | | • | • | 59.34 | 60.99 | 54.56 | 55.13 | 57.94 | 61.18 | 58.6 |
| 80-84 . | | | | 102.82 | 108.18 | 100.25 178.91 | 93.91 186.67 | 92.87 185.29 | 106.68 190.24 | 102.5 195.5 |
| 85 and over | | | | 192.12 | 214.16 | | | | | |

⁽a) Number of deaths per 1,000 of population in each age group. (b) Includes the Australian Capital Territory and the Northern Territory. (c) Infant deaths per 1,000 live births registered.

VITAL STATISTICS

AGE-SPECIFIC DEATH RATES(a)(b): AUSTRALIA

| Age group (years) | 1946-48 (c) | 1953-55 (c) | 1960-62 (c) | 1965–67 (c) | 1970-72 (c) | 1970 | 1971 | 1972 | 1973 |
|--|--|---|---|--|--|---|---|---|---|
| | | | | MALE | s | | · · · · · · · · · · · · · · · · · · · | | |
| Under 1(d). | 31.71 | 25.18 | 22.36 | 20.85 | 19.50 | 20.60 | 19.02 | 18.95 | 18.56 |
| 1-4. | 2.09 | 1.69 | 1.15 | 1.08 | 1.00 | 1.07 | 0.94 | 0.99 | 0.98 |
| 5-9. | 0.92 | 0.67 | 0.52 | 0.45 | 0.46 | 0.47 | 0.47 | 0.44 | 0.44 |
| 10–14 . | 0.77 | 0.63 | 0.48 | 0.46 | 0.42 | 0.40 | 0.46 | 0.41 | 0.39 |
| 15-19 . | 1.41 | 1.51 | 1.23 | 1.33 | 1.54 | 1.52 | 1.58 | 1.47 | 1.52 |
| 20-24 . | 1.73 | 1.82 | 1.62 | 1.67 | 1.83 | 1.88 | 1.88 | 1.72 | 1.77 |
| 25-29 . | 1.69 | 1.68 | 1.49 | . 1.48 | 1.39 | 1.43 | 1.47 | 1.26 | 1.33 |
| 30–34 . | 2.02 | 1.79 | 1.69 | 1.64 | 1.52 | 1.56 | 1.59 | 1.44 | 1.46 |
| 35-39 . | 2.66 | 2.40 | 2.26 | 2.45 | 2.29 | 2.37 | 2.34 | 2.19 | 2.13 |
| 40-44 . | 4.12 | 3.64 | 3.67 | 3.82 | 3.49 | 3.65 | 3.37 | 3.46 | 3.55 |
| 45-49 . | 6.86 | 6.01 | 5.96 | 6.14 | 6.08 | 6.19 | 6.12 | 6.14 | 6.21 |
| 50-54 . | 11.39 | 10.44 | 10.01 | 10.45 | 10.05 | 10.60 | 10.02 | 9.70 | 9.74 |
| 5559 . | 17.58 | 17.03 | 16.57 | 16.96 | 16.80 | 17.39 | 16.81 | 16.36 | 16.00 |
| 60-64 . | 27.43 | 26.58 | 26.44 | 27.59 | 27.13 | 27.94 | 26.44 | 27.08 | 26.36 |
| 65–69 . | 42.42 | 41.28 | 41.68 | 43.66 | 42.72 | 45.52 | 41.98 | 41.11 | 41.60 |
| 70-74 . | 63.69 | 64.53 | 63.04 | 66.84 | 65.21 | 67.67 | 64.76 | 64.94 | 64.18 |
| 75–79 . | 99.65 | 98.77 | 94.43 | 99.77 | 102.26 | 107.13 | 100.60 | 100.29 | 100.06 |
| 80-84 . | 149.31 | 145.88 | 141.83 | 146.95 | 148.51 | 153.27 | 147.97 | 147.14 | 149.87 |
| 85 and over | 253.48 | 248.14 | 243.69 | 241.98 | 239.96 | 244.46 | 240.49 | 239.04 | 233.45 |
| | | | | | | | | | |
| | | | | FEMAL | ES | | | . | |
| Under 1(d) . | 24.96 | 19.88 | 17.57 | | ES | 15.02 | 15.48 | r14.37 | 14.32 |
| Under 1(d) . | 24.96 1.72 | 19.88 1.35 | 17.57 | 16.35 1.14 | 14.96 | | 15.48 0.79 | r14.37 0.77 | 14.32 0.73 |
| Under 1(d) . 1-4 . 5-9 . | | 19.88 1.35 0.50 | 17.57 1.08 0.38 | 16.35 | | 15.02 0.80 0.34 | | | 0.73 |
| 1-4. | 1.72 | 1.35 0.50 | 1.08 | 16.35 1.14 | 14.96 0.79 | 0.80 | 0.79 | 0.77 | 0.73 0.33 |
| 1-4 . 5-9 . | 1.72 0.64 | 1.35 | 1.08 | 16.35 1.14 0.34 | 14.96 0.79 0.33 | 0.80 0.34 | 0.79 0.32 | 0.77 0.33 | 0.73 0.33 0.25 |
| 1- 4 . 5- 9 . 10-14 . | 1.72 0.64 0.52 | 1.35 0.50 0.37 | 1.08 0.38 0.29 | 16.35 1.14 0.34 0.27 | 14.96 0.79 0.33 0.27 | 0.80 0.34 0.33 | 0.79 0.32 0.22 | 0.77 0.33 0.26 | 0.73 0.33 0.25 0.58 |
| 1- 4 | 1.72 0.64 0.52 0.70 | 1.35 0.50 0.37 0.58 | 1.08 0.38 0.29 0.50 | 16.35 1.14 0.34 0.27 0.54 | 14.96 0.79 0.33 0.27 0.61 | 0.80 0.34 0.33 0.58 | 0.79 0.32 0.22 0.68 | 0.77 0.33 0.26 0.55 | 0.73 0.33 0.25 0.58 0.54 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 | 1.35 0.50 0.37 0.58 0.67 | 1.08 0.38 0.29 0.50 0.60 | 16.35 1.14 0.34 0.27 0.54 0.63 | 14.96 0.79 0.33 0.27 0.61 0.59 | 0.80 0.34 0.33 0.58 0.56 | 0.79 0.32 0.22 0.68 0.65 | 0.77 0.33 0.26 0.55 0.59 | 0.73 0.33 0.25 0.58 0.54 |
| 1- 4 . 5- 9 . 10-14 . 15-19 . | 1.72 0.64 0.52 0.70 1.08 1.50 | 1.35 0.50 0.37 0.58 0.67 0.83 | 1.08 0.38 0.29 0.50 0.60 0.71 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 | 0.80 0.34 0.33 0.58 0.56 0.69 | 0.79 0.32 0.22 0.68 0.65 0.67 | 0.77 0.33 0.26 0.55 0.59 0.62 | 0.73 0.33 0.25 0.58 0.54 0.57 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 | 0.73 0.33 0.25 0.58 0.57 0.81 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 | 0.73 0.33 0.25 0.58 0.54 0.57 0.81 1.30 2.05 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 3.31 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 2.55 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 2.26 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 2.31 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 2.23 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 2.31 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 2.26 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 2.16 | 0.73 0.33 0.25 0.58 0.54 0.57 0.81 1.30 2.05 3.62 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 3.31 4.92 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 2.55 4.19 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 2.26 3.65 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 2.31 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 2.23 3.64 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 2.31 3.63 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 2.26 3.79 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 2.16 3.56 | 0.73 0.33 0.25 0.58 0.54 0.57 0.81 1.30 2.05 3.62 5.16 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 3.31 4.92 7.63 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 2.55 4.19 6.43 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 2.26 3.65 5.55 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 2.31 3.86 5.87 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 2.23 3.64 5.59 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 2.31 3.63 5.85 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 2.26 3.79 5.54 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 2.16 3.56 5.47 | 0.73 0.33 0.25 0.58 0.57 0.81 1.30 2.05 3.62 5.16 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 3.31 4.92 7.63 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 2.55 4.19 6.43 9.25 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 2.26 3.65 5.55 8.14 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 2.31 3.86 5.87 8.67 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 2.23 3.64 5.59 8.51 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 2.31 3.63 5.85 8.77 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 2.26 3.79 5.54 8.47 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 2.16 3.56 5.47 8.40 | 0.73 0.33 0.25 0.58 0.54 0.57 0.81 1.30 2.05 3.62 5.16 8.22 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 3.31 4.92 7.63 10.46 16.52 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 2.55 4.19 6.43 9.25 14.75 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 2.26 3.65 5.55 8.14 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 2.31 3.86 5.87 8.67 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 2.23 3.64 5.59 8.51 13.15 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 2.31 3.63 5.85 8.77 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 2.26 3.79 5.54 8.47 13.04 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 2.16 3.56 5.47 8.40 12.68 | 0.73 0.33 0.22 0.58 0.57 0.81 1.30 2.05 3.62 5.16 8.22 12.53 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 3.31 4.92 7.63 10.46 16.52 26.17 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 2.55 4.19 6.43 9.25 14.75 23.89 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 2.26 3.65 5.55 8.14 13.31 21.99 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 2.31 3.86 5.87 8.67 13.56 21.94 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 2.23 3.64 5.59 8.51 13.15 21.29 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 2.31 3.63 5.85 8.77 13.96 22.39 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 2.26 3.79 5.54 8.47 13.04 20.50 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 2.16 3.56 5.47 8.40 12.68 20.34 | 0.73 0.33 0.25 0.58 0.57 0.81 1.30 2.05 3.62 5.16 8.22 12.53 19.60 34.48 |
| 1- 4 | 1.72 0.64 0.52 0.70 1.08 1.50 1.77 2.42 3.31 4.92 7.63 10.46 16.52 26.17 45.84 | 1.35 0.50 0.37 0.58 0.67 0.83 1.11 1.74 2.55 4.19 6.43 9.25 14.75 23.89 40.93 | 1.08 0.38 0.29 0.50 0.60 0.71 0.95 1.47 2.26 3.65 5.55 8.14 13.31 21.99 37.14 | 16.35 1.14 0.34 0.27 0.54 0.63 0.72 0.98 1.54 2.31 3.86 5.87 8.67 13.56 21.94 37.47 | 14.96 0.79 0.33 0.27 0.61 0.59 0.66 0.91 1.43 2.23 3.64 5.59 8.51 13.15 21.29 36.12 | 0.80 0.34 0.33 0.58 0.56 0.69 0.92 1.66 2.31 3.63 5.85 8.77 13.96 22.39 35.76 | 0.79 0.32 0.22 0.68 0.65 0.67 0.95 1.38 2.26 3.79 5.54 8.47 13.04 20.50 36.65 | 0.77 0.33 0.26 0.55 0.59 0.62 0.87 1.29 2.16 3.56 5.47 8.40 12.68 20.34 34.65 | 14.32 0.73 0.25 0.58 0.54 0.57 0.81 1.30 2.05 3.62 5.16 8.22 12.53 19.60 34.48 58.67 |

⁽a) Number of deaths per 1,000 of population of the same age group and sex. The populations used in the calculation of these rates are based on census populations at 30 June 1947, 1954, 1961, 1966 and 1971. (b) Excludes particulars of full-blood Aborigines prior to 1965. (c) Average annual rate per 1,000 of census population, based on deaths in the three year period, i.e. census year and the years preceding and following it. (d) Infant deaths per 1,000 live births registered.

Infant deaths and death rates-States and Territories

The next table shows for each State and Territory the number of deaths under one year of age and the rates of infant mortality under one year. Rates for Australia and the more populous countries of the world for the latest available year are shown in the table International Vital Statistics at the end of this Chapter.

INFANT MORTALITY UNDER ONE YEAR(a)

| Period | N.S. V | V. Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|----------------------|--------|---------|-------|-------|-------|-------|-------|--------|-------|
| Annual average— | | | | | | | | | |
| 1946-50 | . 1,99 | 0 1,129 | 770 | 431 | 370 | 187 | - 11 | 14 | 4,902 |
| 1951-55 | . 1,85 | 2 1,113 | 730 | 407 | 384 | 184 | 17 | 14 | 4,701 |
| 1956-60 | . 1,77 | 0 1,205 | 717 | 410 | 362 | 176 | 25 | 18 | 4,683 |
| 1961–65 | . 1,68 | 1,168 | 696 | 408 | 350 | 156 | 28 | 34 | 4,524 |
| 1966-70 | . 1,56 | 7 1,071 | 669 | 354 | 393 | 127 | 117 | 51 | 4,349 |
| Annual total— | | | | | | | | | |
| 1970 | . 1,74 | | 672 | 367 | 459 | 116 | 126 | 61 | 4,604 |
| 1971 | . 1,71 | | 766 | 366 | 464 | 114 | 170 | 80 | 4,777 |
| 1972 | . 1,66 | 3 1,048 | 697 | 367 | 348 | 127 | 113 | 67 | 4,430 |
| 1973 | . 1,49 | 1 958 | 666 | 276 | 394 | 137 | 100 | 63 | 4,085 |
| 1974 | . 1,42 | 8 989 | 606 | 312 | 327 | 123 | 103 | 70 | 3,958 |
| Annual average rate(| (b) | | | | | | | | |
| 1946-50 | . 28.9 | 1 23.82 | 27.49 | 26.50 | 28.15 | 26.53 | 37.37 | 19.89 | 26.98 |
| 1951-55 | . 25.1 | 1 20.70 | 23.58 | 22.55 | 24.41 | 23.67 | 36.28 | 15.40 | 23.34 |
| 1956-60 | . 22.2 | | 20.99 | 20.50 | 21.42 | 20.62 | 36.00 | 13.68 | 21.05 |
| 1961–65 | . 20.3 | 2 17.92 | 19.69 | 19.07 | 20.73 | 18.46 | 30.76 | 17.80 | 19.42 |
| 1966–70 | . 18.9 | 9 15.57 | 18.90 | 16.60 | 20.25 | 15.94 | 54.91 | 18.25 | 18.10 |
| Annual rate(b)— | | | | | | | | | |
| 1970 | . 19.7 | 1 14.52 | 17.91 | 16.23 | 21.23 | 14.17 | 48.02 | 17.55 | 17.88 |
| 1971 | . 17.3 | 7 14.66 | 19.16 | 15.92 | 19.14 | 13.70 | 60.03 | 19.80 | 17.29 |
| 1972 , . | . 17.4 | 5 14.59 | 17.76 | 16.80 | 15.69 | 16.23 | 41.51 | 16.48 | 16.72 |
| 1973 | . 17.0 | 7 14.27 | 17.50 | 13.52 | 19.21 | 18.70 | 35.60 | 15.83 | 16.49 |
| 1974 | . 16.5 | 7 14.94 | 16.01 | 15.46 | 16.18 | 16.63 | 36.68 | 16.03 | 16.14 |

(a) Excludes particulars of full-blood Aborigines before 1966. (b) Number of deaths of children aged under one year per 1,000 live births registered.

Because of the smallness of the numbers of these deaths occurring in the Australian Capital Territory and the Northern Territory, the rates for these Territories (i.e. number of such deaths per thousand live births) are subject to considerable fluctuation.

Infant deaths and death rates-Australia

The fact that out of 664,335 male infants born from 1969 to 1973, 12,919 (19.45 per 1,000) died during the first year of life, while of 632,358 female infants only 9,459 (14.96 per 1,000) died during the first year, accords with the universal experience that during the first few years of life the higher death rate of male infants tends to counteract the excess of male births. Stillbirths, for which masculinity is also higher, are not included in any of the tables relating to deaths.

As shown by the following table, the disparity is greater during the first four weeks of life, termed the neonatal period, than during the remainder of the first year of life, or the post-neonatal period.

VITAL STATISTICS

INFANT DEATHS AND MORTALITY RATES(a): AUSTRALIA

| | | Age at | death | | | | | | | | | | Tota! | | |
|--|------------------|---|---------------------------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|---|---|
| | | Days | | | Mont | hs | | | under one year | | | | | | |
| Period | | Under I | 1-6 | under one week | | 2 | 3 | under four weeks | 1-2 (b) | 3-5 | 6-8 | 9-11 | Males | Fe- males | Per- sons |
| Annual average | <u>:-</u> - | | | | | | | | | | | | | | |
| 1946-50 . 1951-55 . 1956-60 . 1961-65 . | : | 1,717 1,631 1,737 1,709 | 1,297 1,250 1,195 1,187 | 3,014 2,881 2,932 2,896 | 259 237 221 191 | 138 109 116 102 | 103 86 84 71 | 3,514 3,313 3,353 3,260 | 404 396 398 426 | 415 431 457 417 | 318 316 271 245 | 251 245 204 176 | 2,808 2,683 2,662 2,596 | 2,094 2,018 2,021 1,928 | 4,902 4,701 4,683 4,524 |
| 1966–70 . | | 1,696 | 1,125 | 2,821 | 160 | 88 | 72 | 3,141 | 407 | 420 | 226 | 155 | 2,515 | 1,834 | 4,349 |
| Annual total— 1969 1970 1971 1972 1973 | | 1,755 1,857 1,907 1,924 1,718 | 1,151 1,150 1,121 954 902 | 2,906 3,007 3,028 2,878 2,620 | 155 160 177 141 154 | 110 90 85 89 86 | 69 71 74 67 67 | 3,240 3,328 3,364 3,175 2,927 | 407 459 488 456 429 | 432 454 494 450 425 | 241 215 250 223 195 | 162 148 181 126 109 | 2,584 2,718 2,684 2,577 2,356 | 1,898 1,886 2,093 1,853 1,729 | 4,482 4,604 4,777 4,430 4,085 |
| Annual average | : | | | | | | | | | | | | | | |
| rate(c)— 1946–50 . 1951–55 . 1956–60 . 1961–65 . | : | 9.45 8.09 7.81 7.34 | 7.14 6.20 5.37 5.09 | 16.59 14.29 13.18 12.43 | 1.43 1.18 0.99 0.82 | 0.76 0.54 0.52 0.44 | 0.56 0.43 0.38 0.30 | 19.34 16.44 15.07 13.99 | 2.22 1.97 1.79 1.83 | 2.29 2.14 2.06 1.79 | 1.75 1.57 1.22 1.05 | 1.38 1.22 0.92 0.76 | 30 08 25.99 23.29 21.67 | 23.70 20.56 18.69 17.03 | 26.98 23.34 21.05 19.42 |
| 1966-70 . | | 7.06 | 4.68 | 11.74 | 0.66 | 0.37 | 0.30 | 13.07 | 1.69 | 1.75 | 0.94 | 0.65 | 20.40 | 15.67 | 18.10 |
| Annual rate(c)- 1969 1970 1971 1972 1973 | - : : : | 7.02 7.21 6.90 7.26 6.94 | 4.60 4.47 4.06 3.60 3.64 | 11.62 11.68 10.96 10.86 10.58 | 0.61 0.62 0.64 0.53 0.62 | 0.44 0.35 0.31 0.34 0.35 | 0.28 0.27 0.27 0.25 0.27 | 12.95 12.92 12.17 11.98 11.82 | 1.63 1.78 1.77 1.72 1.73 | 1.73 1.76 1.78 1.70 1.72 | 0.96 0.84 0.90 0.84 0.79 | 0.65 0.58 0.65 0.48 0.44 | 20 14 20 60 19 02 18 95 18 56 | 15.57 15.02 15.48 14.37 14.32 | 17.92 17.88 17.29 16.72 16.49 |

⁽a) Excludes particulars of full-blood Aborigines before 1966. (b) Age four weeks and under three months. (c) Number of deaths of children aged under one year per 1,000 live births registered.

Plate 31 below, shows infant mortality rates for each year from 1910 to 1973.

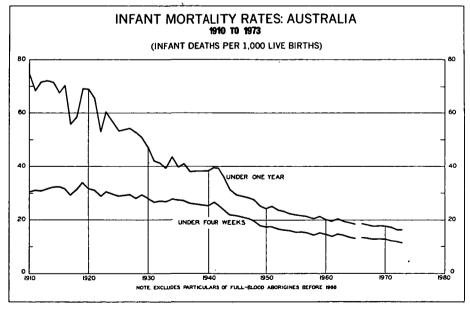


PLATE 31

Causes of death

Causes of death in Australia are classified according to the International Classification of Diseases (I.C.D.) produced by the World Health Organization. The classification is periodically revised and in Australia the Eighth Revision was adopted for use from 1968. Hence, cause of death figures for 1968 and subsequent years are not strictly comparable, for some causes, with those for 1967 and earlier years.

The following two tables show the number of deaths in 1973 according to the Abbreviated List of 50 causes for tabulation of mortality recommended by W.H.O. with some large categories sub-divided to show further details. Table A shows the total number of males and females who died, the death rates per million of mean population, and the percentage of total deaths. Table B shows deaths for males and females, classified by age groups. More detailed data on causes of death will be found in the bulletin *Causes of Death* (4.7), No. 10.

A. CAUSES OF DEATH: NUMBERS, PROPORTIONS AND CRUDE RATES(a), MALES AND FEMALES, AUSTRALIA, 1973

ABBREVIATED LIST OF 50 CAUSES WITH CERTAIN SUB-DIVISIONS

| | | Males | | | Females | | | | | |
|---|--------------------|---------------------|------------------------|-------------------|---------------------|------------------------|-------------------|--|--|--|
| Cause of death | ICD numbers | Number of deaths | Percentage of total | Crude rates(a) | Number of deaths | Percentage of total | Crude rates(a) | | | |
| B 1 Cholera B 2 Typhoid fever | 000 | | | | | | | | | |
| B 2 Typhoid fever | 001 | | • • | • • | • • | •• | • • | | | |
| asis | 004, 006 | 2 | (b) | (c) | 4 | (b) | | | | |
| B 4 Enteritis and other diarrhoeal diseases | 008, 009 | 145 | 0.2 | 22 | 150 | 0.3 | 2: | | | |
| B 5 Tuberculosis of respiratory sys- | • | | | | | | | | | |
| tem | 010-012 | 64 | 0.1 | 10 | 21 | (b) | - | | | |
| late effects | 013-019 | 29 | (b) | 4 | 12 | (h) | ; | | | |
| B 7 Plague | 020 032 | ż | (b) | (c) | 'i | (b) | ic | | | |
| B 9 Whooping cough | 033 | | | | 2 | (b) | (6 | | | |
| B10 Streptococcal sore throat and scarlet fever | 034 | | | | | | | | | |
| B11 Meningococcal infection | 036 | i 5 | (b) | 2 | . 5 | (b) | • | | | |
| B12 Acute poliomyelitis | 040043 | | | | | | | | | |
| B13 Smallpox | 050 055 | 2 | (b) | (c) | | (b) | | | | |
| B15 Typhus and other rickettsioses | 080-083 | | | | | | | | | |
| B16 Malaria | 084 090–097 | · . | (ii) | · i | iò | ái. | • | | | |
| B17 Syphilis and its sequelae . B18 All other infective and parasitic | 090-097 | 0 | (b) | 1 | 10 | (b) | • | | | |
| diseases | Remainder | | | | 440 | | _ | | | |
| B19 Malignant neoplasms— | of 000-136 | 180 | 0.3 | 27 | 130 | 0.3 | 20 | | | |
| (i) Digestive organs | 150-159 | 3,341 | 5.4 | 505 | 2,978 | 6.0 | 454 | | | |
| (ii) Lung | 162 172, 173 | 3,079 | 5.0 | 466 | 564 | 1.1 | 86 | | | |
| (iii) Skin | 172, 173 174 | 311 15 | 0.5 (b) | 47 2 | 202 1,607 | 0.4 3.3 | 3 24: | | | |
| | | 1.133 | 1.8 | 171 | 1,190 | 2.4 | 18 | | | |
| (vi) Urinary organs | 188, 189 | 545 | 0.9 | 82 | 320 | 0.6 | 4 | | | |
| (vii) Leukaemia and aleukaemia (viii) Other malignant and lymph- | 204-207 | 452 | 0.7 | 68 | 325 | 0.7 | 50 | | | |
| atic neoplasms | Remainder | | | | | | | | | |
| | of 140-209 | 1,900 | 3.1 | 287 | 1,434 | 2.9 | 21 | | | |
| Total, Bl9 | | 10,776 | 17.5 | 1,630 | 8,620 | 17.5 | 1,314 | | | |
| B20 Benign neoplasms and neo- | 210 220 | 101 | 0.2 | 16 | 106 | 0.2 | 1. | | | |
| plasms of unspecified nature B21 Diabetes mellitus | 210–239 250 | 101 828 | 1.3 | 15 125 | 106 963 | 0.2 2.0 | 10 143 | | | |
| B22 Avitaminoses and other nutri- | | | | | | | | | | |
| tional deficiency | 260–269 | 48 | 0.1 | .7 | 38 | 0.1 | | | | |
| B23 Anaemias | 280-285 320 | 89 55 | 0.1 0.1 | 13 8 | 127 33 | 0.3 0.1 | 11 | | | |
| B25 Active rheumatic fever | 390-392 | 5 | (b) | ĭ | 33 | (b) | | | | |
| B26 Chronic rheumatic heart disease | 393-398 | 361 | 0.6 | 55 | 411 | 0.8 | 6 | | | |
| B27 Hypertensive disease | 400-404 | 621 | 1.0 | 94 | 843 | 1.7 | 12 | | | |
| B28 Ischaemic heart disease | 410-414 420-429 | 19,810 | 32.2 | 2,997 309 | 13,178 | 26.8 | 2,00 | | | |
| B30 Cerebrovascular disease | 420-429 | 2,040 | 3.3 10.7 | 309 996 | 2,475 | 5.0 19.0 | 37 1.42 | | | |
| B31 Influenza | 470 <u>–</u> 474 | 6,581 80 | 0.1 | 12 | 9,351 70 | 0.1 | 1,42 | | | |
| B32 Pneumonia | 480-486 | 1,413 | 2.3 | 214 | 1,203 | 2.4 | 18 | | | |
| B33 Bronchitis, emphysema and | | • | | | | | | | | |
| asthma | 490-493 | 3,290 | 5.3 | 498 | 827 | 1.7 | 120 | | | |
| B34 Peptic ulcer | 531-533 | 423 | 0.7 | 64 | 198 | 0 4 | 3 | | | |
| B35 Appendicitis . B36 Intestinal obstruction and hernia : | 540-543 | 32 | 0.1 | 25 | 44 | 0.1 | 3: | | | |
| B36 Intestinal obstruction and hernia: B37 Cirrhosis of liver | 220-223, 260 | 188 | 0.3 1.1 | 28 99 | 209 272 | 0.4 | 4 | | | |
| B38 Nephritis and nephrosis | 571 580-584 | 655 384 | 0.6 | 58 | 342 | 0.6 0.7 | 5 | | | |
| B39 Hyperplasia of prostate | 600 | 212 | 0.3 | 32 | 372 | 0.7 | .ر | | | |
| B40 Abortion | 640-645 | | | | 'i | (b) | (c | | | |

For footnotes see end of table next page.

A. CAUSES OF DEATH: NUMBERS, PROPORTIONS AND CRUDE RATES(a), MALES AND FEMALES, AUSTRALIA, 1973—continued

ABBREVIATED LIST OF 50 CAUSES WITH CERTAIN SUB-DIVISIONS—continued

| | | | Males | | Females | | | | | |
|---|----------------|-------------------------------------|-----------------------|------------------------|-------------------|---------------------|---------------------|-------------------|--|--|
| Cause of death | | ICD numbers | Number of deaths | Percentage of total | Crude rates(a) | Number of deaths | Percentage of total | Crude rates(a) | | |
| B41 Other complications of nancy, childbirth ar puerperium. Delivery mention of complication | nd the without | 630–639, | | | | | | | | |
| B42 Congenital anomalies B43 Birth injury, difficult labo other anoxic and l | | 650678 740759 | 627 | 1.0 | 95 | 27 567 | 0.1 1.2 | 86 | | |
| conditions | erinatal | 764-768, 772, 776 | 382 | 0.6 | 58 | 220 | 0.4 | 34 | | |
| mortality | | Remainder of 760-779 | 887 | 1.4 | 134 | 660 | 1.3 | 101 | | |
| B45 Symptoms and ill-define ditions . B46 (i) Arteriosclerosis (ii) Other diseases of circ | : : | 780–796 440 | 499 957 | 0.8 1.6 | 75 145 | 440 1,424 | 0.9 2.9 | 67 217 | | |
| system (iii) Other diseases of | respira- | 441-448, 450-458 460-466. | 1,182 | 1.9 | 179 | 763 | 1.5 | 116 | | |
| tory system . (iv) All other diseases | | 500-508, 510-519 Remainder | 444 | 0.7 | 67 | 310 | 0.6 | 47 | | |
| (IV) All Office discusses | • • | of 240-738 | 2,205 | 3.6 | 334 | 2,354 | 4.8 | 359 | | |
| Total, B46 . | | | 4,788 | 7.8 | 724 | 4,851 | 9.9 | 740 | | |
| BE47 Motor vehicle accidents BE48 All other accidents. | : : | E810-E823 E800-E807 | | 4.6 | 427 | 1,003 | 2.0 | 153 | | |
| BE49 Suicide and self-inflicted BE50 All other external causes | | E825-E949 E950-E959 E960-E999 | 1,829 1,036 279 | 3.0 1.7 0.5 | 277 157 42 | 1,151 492 164 | 2.3 1.0 0.3 | 175 75 25 | | |
| All causes . | | | 61,588 | 100.0 | 9,317 | 49,234 | 100.0 | 7,507 | | |

(a) Number of deaths per million of estimated mean population.

(b) Less than 0.05.

(c) Less than 0.5,

B CAUSES OF DEATH: MALES AND FEMALES IN AGE GROUPS, AUSTRALIA, 1973
ABBREVIATED LIST OF 50 CAUSES (BASED ON THE EIGHTH REVISION OF THE INTERNATIONAL LIST)

| | | | Number | | | | | | | | | | | |
|-------|---|--------|---------------------------------------|----------|------------|----------|---|---|------------|------------|---|----------------|---|--------------|
| Causi | se of death(a) Bacillary dysentery and amoe- | | Under 1 | 1-4 | 5–14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75 and over | Not stated | Tota |
| В 3 | | M F | 2 | | | | | | ••• | • | ·.; | ·; | ••• | |
| R 4 | biasis Enteritis and other diarrhoeal | M | 45 | 23 | | | ·i | 4 | . 3 | | 23 | 32 | | 14: |
| | diseases | F | 42 | 25 | 2 | | 1 | | 3 | 6 | 15 | 56 | | 150 |
| B 5 | Tuberculosis of respiratory | M F | • • | | • • | | i | 3 2 | 9 | 20 | 19 3 | 13 8 | | 6· 2 |
| В 6 | Other tuberculosis, including | M | i | | | | | 2 | 6 | ģ | 6 | 5 | • • • | 29 |
| B 8 | late effects | F M | ·i | • • | | ·i | | | 3 | 2 | 2 | 3 | • • | 1 |
| | • ' | F | | 'n | | | | • • • | | | • | | | • |
| B 9 | Whooping cough | F | 2 | | | | • ; | ٠. | | • : | | | | |
| BII | Meningococcal infection . | M F | í | | | | 1 | 3 | 3 | 1 | • • • | 'i | • • | 1: |
| B14 | Measles | M F | :: | 1 | | | • | | | i | | | :: | |
| B17 | Syphilis and its sequelae . | M F | · · · · · · · · · · · · · · · · · · · | | | | ••• | • | i | 2 2 | 1 | 5 | : :: | 1 |
| B18 | All other infective and para- sitic diseases | M F | 33 20 | 11 | 9 8 | 5 | 13 7 | 15 | 17 11 | 28 20 | 24 15 | 2 i 34 | | 18 13 |
| B19 | Malignant neoplasms— | • | 20 | , | 0 | , | • | _ | | | | | | 13 |
| | (i) Digestive organs | M F | ·i | | 2 | 3 2 | 27 30 | 99 85 | 339 288 | 797 533 | 1,099 791 | 975 1.248 | | 3,34 2,97 |
| | (ii) Lung | M | | • • | | | 4 | 57 | 391 | 877 | 1,161 | 588 | 'n | 3,07 |
| | | F | | | | | 3 | 22 | 90 | 180 | 153 | 116 | • • | 56 |
| | (iii) Skin | M F | • • | 1 | • • | 11 8 | 19 12 | 27 16 | 50 46 | 75 39 | 66 39 | 62 42 | • • | 31 20 |
| | (iv) Breast | M | | • • • | | ., | | 1 | 1 | 5 | 4 | 4 | | 1. |
| | (v) Carital arrays | F M | | | | | 21 17 | 124 13 | 322 22 | 395 115 | 357 388 | 388 566 | | 1,60 |
| | (v) Genital organs | F | | • • | | 12 8 | 16 | 44 | 211 | 319 | 305 | 287 | | 1,13 |
| | (vi) Urinary organs . | M F | | 3 | 3 | Ĭ | 2 | 5 | 56 28 | 122 | 197 86 | 156 131 | | 7,54. 32 |
| | (vii) Leukaemia and aleukae- | M | 3 | 23 | 39 | 25 | 21 | 29 | 49 | 70 | 102 | 91 | • | 45 |
| | mia | F | 2 | 14 | 31 | 19 | 17 | .12 | 31 | 53 | 55 | 91 | | 32 |
| | (viii) Other malignant and lymphatic neoplasms | M F | 6 1 | 25 15 | 40 26 | 46 28 | 73 36 | 111 67 | 280 174 | 477 323 | 513 377 | 329 387 | | 1,90 1,43 |
| | Total, Bl9 | M | 9 | 52 | 84 | 98 | 163 | 342 | 1,188 | 2,538 | 3,530 | 2,771 | 1 | 10,77 |
| | | F | 4 | 34 | 60 | 66 | 136 | 374 | 1,190 | 1,903 | 2,163 | 2,690 | • • | 8,62 |

For footnote see end of table next page.

MORTALITY 201

B. CAUSES OF DEATH: MALES AND FEMALES IN AGE GROUPS, AUSTRALIA, 1973—continued Abbreviated List of 50 Causes (Based on the Eighth Revision of the International List)

| | Number of deaths in age groups (years) | | | | | | | | | | | | | |
|----------------------|--|--------|----------------|------------|------------|--------------|-----------|----------------|----------------|-----------------|------------------|------------------|---|------------------|
| Cause of death(a) Se | | Sex | Under I | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75 and over | Not stated | Total |
| B20 | Benign neoplasms and neo- plasms of unspecified | м | 2 | | 4 | 7 | 6 | 5 | 15 | 25 | 22 | 15 | | 101 |
| | nature | F | 2 | ż | 1 | 4 | 3 | 10 | 17 | 25 23 | 18 | 26 | :: | 106 |
| B21 | Diabetes mellitus | M F | 1 | 'i | 3 | 5 | 6 13 | 20 18 | 47 39 | 159 122 | 289 289 | 305 473 | | 828 963 |
| 922 | Avitaminoses and other nutri- | M | 3 1 | 1 | | ·i | | 1 | 2 2 | 9 | 15 6 | 17 | | 48 38 |
| B23 | tional deficiency | M | į | ij | · i | 3 | 2 | · ; | 2 | 3 7 | 16 | 24 53 | :: | 89 |
| B24 | Meningitis | F M | 30 | 2 6 | 1 | | ż | 3 4 | | 9 3 | 23 5 | 81 2 | • • • | 127 55 |
| B25 | Active rheumatic fever | F M | 11 | | 2 2 | | 1 1 | | | | 4 2 | | • • | 33 |
| B26 | Chronic rheumatic heart | F M | • • | 1 | • • | 1 | 1 14 | 24 | 1 59 | 110 | 2 85 | 66 | •• | 361 |
| B27 | disease | F | | | 2 | 2 | 7 | 19 13 | 51 51 | 87 112 | 111 189 | 132 255 | | 411 621 |
| B28 | Ischaemic heart disease . | F | | | | 4 | 2 55 | 16 534 | 51 2,244 | 78 4.803 | 159 6,180 | 537 5,989 | i | 843 19,810 |
| B29 | Other forms of heart disease. | F M | 7 | | :. 5 | i 18 | 18 24 | 120 | 499 109 | 1,566 | 3,453 437 | 7,517 1,162 | 4 | 13,178 |
| | | F | 4 | 6 | 4 | 9 | 16 | 52 29 | 53 | 114 | 368 | 1,871 | i | 2,475 |
| B30 | Cerebrovascular disease , | M F | 1 | 3 | 3 | 14 12 | 31 33 | 119 130 | 418 353 | 938 741 | 1,957 1,799 | 3,097 6,268 | ż | 6,581 9,351 |
| B31 | Influenza | M F | 2 | 4 | 1 | 1 | į | 3 | 5 | 12 | 22 15 | 28 42 | :: | 80 70 |
| B32 | Pneumonia | M F | 108 91 | 30 25 | 7 | 14 9 | 20 13 | 48 21 | 119 50 | 149 65 | 274 147 | 647 775 | | 1,413 1,203 |
| B33 | Bronchitis, emphysema and asthma | M F |] [| 9 2 | 19 7 | 10 19 | 6 14 | 23 34 | 179 94 | 556 149 | 1,160 222 | 1,326 285 | | 3,290 827 |
| B34 | Peptic ulcer | M F | | • • • | | 1 | 4 2 | 12 | 49 13 | 97 27 | 119 48 | 141 100 | | 423 198 |
| 335 | Appendicitis | M | :: | ij | i | i 3 | 2 | 3 | 5 3 | 7 | 5 | 8 20 | | 32 |
| B36 | Intestinal obstruction and | M | 35 | 2 | • : | 2 | 4 | 2 | 8 | 28 | 34 | 73 | | 188 |
| B37 | hernia | F M | 11 | · . | 2 | · į | 16 | 74 | 13 192 | 19 213 | 49 112 | 112 40 | • | 209 655 |
| B38 | Nephritis and nephrosis . | F M | · . | 'n | 1 | 1 2 | 8 14 | 32 14 | 83 38 | 79 80 | 49 125 | 18 105 | | 272 384 |
| B39 | Hyperplasia of prostate . | F M | • • | • • | 1 | | | 23 | 66 2 | 70 9 | 75 45 | 97 156 | • | 342 212 |
| 340 341 | Abortion Other complications of preg- nancy, childbirth and the puerperium. Delivery with- | F | •• | •• | | 1 | | •• | •• | •• | | | •• | 1 |
| B42 | out mention of complication Congenital anomalies | F M | 436 | 65 | 35 | 7 17 | 12 11 | 8 | j ż | 24 | iż | ٠. | • • | 621 621 |
| B43 | | F | 406 | 48 | 28 | 14 | 14 | 10 | 12 | 18 | 3 | 14 | • • | 567 |
| 343 | Birth injury, difficult labour and other anoxic and | M | 377 | 5 | • : | | | | | | | | | 382 |
| B44 | hypoxic conditions Other causes of perinatal | F M | 217 886 | 1 | 2 | • • • | | • • • | | • • | • • | • • | | 220 887 |
| B45 | mortality. Symptoms and ill-defined con- | F M | 659 169 | iò | · . | 1 21 | 28 | 22 | 36 | 40 | 38 | 128 | 3 | 660 499 |
| | ditions | F | 114 | .8 | ž | 12 | ĩŏ | 14 | 10 | 21 | 37 | 209 | 2 | 440 |
| B46 | (i) Arteriosclerosis | M F | | • • | | • • | • • | 2 1 | 6 4 | 31 15 | 174 121 | 744 1,283 | • • | 957 1,424 |
| | (ii) Other diseases of cir- | M F | 2 | 1 | .; | 5 | 11 | 23 17 | 67 34 | 221 87 | 396 173 | 456 433 | • • | 1,182 |
| | culatory system (iii) Other diseases of respira- | M | 90 | iż | 8 | 5 | 1 | 13 | 27 | 55 | 88 | 140 | • • | 444 |
| | tory system (iv) All other diseases | F M | 47 30 | 7 34 | 7 50 | 1 73 | 8 64 | 10 125 | 25 301 | 25 379 | 29 528 | 151 621 | • • | 316 2,20 |
| | | F | 23 | 29 | 45 | 40 | 62 | 98 | 201 | 369 | 495 | 992 | | 2,354 |
| | Total, B46 | M F | 122 71 | 52 36 | 58 55 | 83 47 | 76 79 | 163 126 | 401 264 | 686 496 | 1,186 818 | 1,961 2,859 | • • • | 4,788 4,851 |
| RE47 | Motor vehicle accidents . | M F | 6 10 | 64 58 | 170 97 | 1,119 255 | 427 83 | 263 75 | 246 110 | 242 98 | 175 103 | 109 114 | 1 | 2,822 1,003 |
| BE48 | All other accidents | M F | 64 49 | 155 | 96 | 246 | 208 | 200 | 231 49 | 209 | 150 105 | 270 | • • • | 1,829 |
| BE49 | Suicide and self-inflicted | M | | 91 | 44 4 | 39 171 | 31 155 | 40 199 | 214 | 66 145 | 104 | 637 43 | i | 1,151 |
| BE50 | injuries | F M | · ; | 8 | ió | 71 53 | 75 57 | 86 42 | 111 56 | 87 30 | 47 13 | 15 7 | | 492 279 |
| | | F | 3 | 8 | 8 | 30 | 31 | 24 | 27 | 17 | 11 | 5 | | 164 |
| | All causes | M F | 2,356 1,729 | 513 369 | 520 347 | 1,903 626 | 1,348 | 2,220 1,232 | 5,967 3,194 | 11,522 5,903 | 16,374 10,174 | 18,856 25,029 | 9 10 | 61,588 49,234 |

⁽a) Categories of the Abbreviated List for which no deaths were recorded in 1973 have been omitted from this table. For deaths of such categories see Table A, pages 199-200.

Causes of death-children under one year

Causes of death of children under one year of age should be considered in relation to age at death because the emphasis on various causes changes rapidly as age at death varies, the majority of deaths in the first week of life being due to conditions arising during pregnancy and birth. A summary for 1973, of deaths of children under one year of age, classified according to principal causes of death and age at death, is given in the following table.

DEATHS OF CHILDREN UNDER ONE YEAR OF AGE, BY CAUSE OF DEATH AUSTRALIA, 1973

| Inter- | | Age at | death | | | | | | | | | |
|------------------------------------|--|------------|-------|----------------|------------|-----|--------|----------------|------------|-----|------|-------------|
| national Classifi- cation of | | Days | | Total under | Wee | | | Total under | Mon | hs | | Total |
| Diseases number | Cause of death | Under 1 | 1-6 | one | 1 | 2 | 3 | four weeks | 1-2 (a) | 3-5 | 6-11 | one year |
| 760 | Chronic circulatory and genito- urinary diseases in mother . | 14 | 4 | 18 | 1 | | | 19 | | | | 19 |
| 761 | Other maternal conditions un- | | | | • | •• | • • | | • • • | • • | • • | |
| | related to pregnancy | 66 | 32 | 98 | | 5 | 2 | 105 | 1 | | | 10€ |
| 762 | Toxaemias of pregnancy | 62 | 42 | 104 | 1 | | | 105 | | | | 105 |
| 763 | Maternal ante and intrapartum | | _ | | _ | | | | | | | |
| | infection | 21 | .7 | 28 | 5 | | • • | 33 | • • | | | 33 |
| 764-768 | Difficult labour | 79 | 46 | 125 | 1 | 3 | 1 | 130 | 2 | | | 132 |
| 769 | Other complications of pregnancy | | | | •• | | | | _ | | | |
| | and childbirth | 441 | 159 | 600 | 10 | 4 | • • | 614 | 2 | • • | • • | 616 |
| 770 | Conditions of placenta | 230 | 93 | 323 | 10 | 2 | | 335 | | | | 335 |
| 771 | Conditions of umbilical cord | 24 | 8 | 32 | | • • | • • | 32 | | | • • | 32 |
| 772, 773 | Birth injury without mention of | 19 | 30 | 49 | | | | | | | | |
| | cause | 32 | 30 | 41 | 3 | į. | 1 | 54 | 1 | 1 | | 56 |
| 774, 775 | Haemolytic disease of newborn. | 32 | 9 | 41 | , | i | | 43 | ı | | | 44 |
| 776 | Anoxic and hypoxic conditions not elsewhere classified | 217 | 168 | 385 | 9 | 6 | 2 | 402 | 4 | 1 | | 407 |
| 777 | Immaturity unqualified | 168 | 38 | 206 | 5 | - | | 211 | 2 | 1 | • • | 213 |
| 778, 779 | Other conditions of newborn | 22 | 11 | 33 | 2 | 'i | 'i | 37 | 2 | · . | • • | 41 |
| 740 ·759 | Congenital anomalies | 268 | 185 | 453 | 77 | 37 | 23 | 590 | 110 | 71 | żί | 842 |
| 000-136 | Infections | 3 | 13 | 16 | ' <i>i</i> | 5 | 6 | 35 | 29 | 47 | 46 | 157 |
| 480-486 | Pneumonia | 6 | 12 | 18 | 3 | 9 | 8 | 38 | 57 | 74 | 30 | 199 |
| (b) | Other diseases | 38 | 42 | 80 | 17 | á | 16 | 121 | 182 | 193 | 117 | 613 |
| E911-E913 | Inhalation or ingestion of food or | 0 | 72 | 00 | 1, | | 10 | 121 | 102 | 173 | 117 | 013 |
| L/II-L/II | other object causing obstruction or suffocation, and accidental | | | | | | | | | | | |
| | mechanical suffocation | 1 | 2 | 3 8 | | 1 | 5 2 | 9 | 31 | 24 | 15 | 79 |
| (c) | Other external causes | 7 | 1 | 8 | i | 3 | 2 | 14 | 5 | 12 | 25 | 56 |
| | All causes | 1,718 | 902 | 2,620 | 154 | 86 | 67 | 2,927 | 429 | 425 | 304 | 4,085 |

⁽a) Age four weeks and under 3 months.

Deaths from certain important causes

As can be seen from the preceding tables, infective and parasitic diseases (Nos B1-B18) no longer cause many deaths in Australia, being responsible for only 0.7 per cent of total deaths. Of far greater importance are diseases of the circulatory system causing 54.2 per cent, malignant neoplasms causing 15.9 per cent and accidents, poisonings and violence causing 7.9 per cent of all deaths in 1973.

Malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues (B19). Deaths classified under this heading according to the Sixth, Seventh and Eighth Revisions of the International List (used in Australia for deaths registered since 1950) are not directly comparable in total with those on the Fifth Revision basis (see Year Book No. 39, p. 628).

The most common sites of malignant neoplasms causing death in 1973 are identified in Table B (pages 200-1). Malignant neoplasms are predominantly diseases of advanced age, but leukaemia and aleukaemia frequently cause death at early ages.

Deaths in age groups and age-specific death rates for males and females who died from malignant neoplasms are given in the table on the following page.

⁽b) 140-474, 490-738, 780-796.

⁽c) E800-E910, E914-E999.

DEATHS AND DEATH RATES FROM MALIGNANT NEOPLASMS(a), BY AGE GROUP AND SEX AUSTRALIA (b)

| | | | | | 1953 | | | | 1963 | | | | 1973 | | | |
|----------|------|------|----|---|--------|-------|--------|-----|--------------|-------|--------|-----|---------------|-------|---------|-----|
| | | | | | Number | | Rate(c |) | Numb | er | Rate(c |) | Nunib | er | Rate(c) |) |
| Age gro | ир (| year | s) | | M | F | M | F | М | F | M | F | M | F | М | F |
| Under I | 5 | | | | 113 | 94 | 9 | 8 | 136 | 88 | 8 | 6 | 145 | 98 | 8 | 5 |
| 15-29 | | | | | 125 | 88 | 13 | 10 | 134 | 127 | 11 | 11 | 173 | 118 | 10 | 7 |
| 30-44 . | | | | | 318 | 404 | 32 | 43 | 411 | 548 | 36 | 51 | 430 | 458 | 35 | 40 |
| 45-54 | | | | | 635 | 721 | 124 | 152 | 923 | 973 | 145 | 158 | 1,188 | 1,190 | 157 | 162 |
| 55-64 | | - | | | 1,368 | 1,249 | 361 | 307 | 1,870 | 1,369 | 414 | 303 | 2,538 | 1,903 | 458 | 330 |
| 65 and c | ovei | • | | · | 3,411 | 2,981 | 1,044 | 748 | 4,493 | 3,703 | 1,135 | 689 | 6,301 | 4,853 | 1,366 | 756 |
| т | ota | l | | | 5,970 | 5,537 | 134 | 127 | 7,968 (d) | 6,808 | 145 | 126 | 10,776 (d) | 8,620 | 163 | 131 |

(a) Includes neoplasms of lymphatic and haematopoietic tissues. (b) Excludes particulars of full-blood Aborigines or to 1967. (c) Number of deaths per 100,000 of population at risk. For the individual age groups, the population risk is that estimated at 30 June. For the total of all ages, the population at risk is the calendar year mean population. prior to 1967. (d) Includes 1 male, age not stated.

Death rates from malignant neoplasms per 100,000 of mean population for Australia and for various other countries as shown in the 1973 United Nations Demographic Year Book are as follows: Israel (1972) 117.2; Japan (1972) 120.4; South Africa (white population) (1970) 137.0; Poland (1972) 144.1; Australia (1972) 145.0; Canada (1972) 147.9; United States of America (1971) 160.6; Italy (1970) 179.1; Netherlands (1971) 194.8; France (1970) 207.4; England and Wales (1972) 242.6; Scotland (1972) 247.9.

Diseases of the circulatory system (B25-B30, part B46). This class is the largest among causes of death, representing 54 per cent of total deaths in 1973. The following table shows the number of deaths and death rates per 100,000 of mean population from diseases of the circulatory system for the years 1950-73. Comparability of the figures is not significantly affected by the various revisions of the International Classification of Diseases.

DEATHS AND DEATH RATES FROM DISEASES OF THE CIRCULATORY SYSTEM BY SEX: AUSTRALIA (a)

| | Cerebrovascular disease | | | | Heart | disease(b) | | | | diseases atory sy: | | | Total | | | |
|--------------------------------------|----------------------------------|----------------------------------|----------------------------|--------------------------|--------------------------------------|--------------------------------------|--------------------------|--------------------------|----------------------------------|----------------------------------|----------------------|----------------------|--------------------------------------|--------------------------------------|--------------------------|--------------------------|
| | Number | | Rate(c | :) | Numbe | r | Rate | (c) | Numbe | r | Ra. | le(c) | Numbe | r | Rate | r(c) |
| Year | M | F | M | F | M | F | М | F | M | F | M | F | M | F | M | F |
| 1950 . 1955 . 1960 . 1965 . | 4,035 4,811 5,183 5,809 | 5,351 6,224 6,659 7,835 | 98 : .103 100 101 | 132 137 131 139 | 14,687 16,382 18,654 21,843 | 10,256 11,303 13,173 15,546 | 356 352 359 381 | 253 249 259 275 | 1,736 1,843 2,068 2,029 | 1,802 1,886 1,970 2,071 | 42 40 40 35 | 44 42 39 37 | 20,458 23,036 25,905 29,681 | 17,409 19,413 21,802 25,452 | 496 495 499 517 | 429 427 429 450 |
| 1970 . 1971 . 1972 . 1973 . | 6,508 6,497 6,621 6,581 | 9,178 9,234 9,148 9,351 | 103 101 101 100 | 148 145 142 143 | 23,639 22,980 22,769 22,584 | 17,269 17,176 16,673 16,643 | 376 358 349 342 | 278 270 258 254 | 2,266 2,271 2,187 2,392 | 2,516 2,454 2,336 2,460 | 36 35 34 36 | 40 39 36 38 | 32,413 31,748 31,577 31,557 | 28,963 28,864 28,157 28,454 | 515 494 484 477 | 466 454 436 434 |

(a) Excludes particulars of full-blood Aborigines prior to 1967. 100,000 of mean population. (b) Includes hypertensive heart disease.

As can be seen from Table B (page 201), these conditions predominantly affect people of advanced age, only 9.1 per cent of deaths being at ages under 55 years in 1973.

Accidents, poisonings and violence (BE47 to BE50). Deaths in this class are classified according to external cause and not according to nature of injury. The classification provides sub-groups for accidents, including adverse reactions to prophylactic inoculations, therapeutic misadventures and late effects of accidental injury; suicide; homicide and injuries purposely inflicted by other persons; injuries undetermined whether accidentally or purposely inflicted; and injury resulting from operations of war, including delayed effects.

While not as numerically important as the above two groups in total this class of causes of death has a much greater influence at the younger ages, being responsible for 75 per cent of all deaths at ages 15-24 years in 1973.

The following table, showing the death rates in the main sub-groups per 100,000 of mean population, indicates that the death rate from violence is between two and three times as great for males as for females. The low level of the rates and proportions for the years 1941-45 is due largely to the exclusion of deaths of defence personnel from accidents, suicide and homicide, though the rates have been based on total mean population (including defence personnel). A further contributing factor is the decrease during this period in the number of automobile accidents. From July 1947 deaths of defence personnel from accidents, etc., have again been included.

| ACCIDENTS, | POISONINGS, | AND | VIOLENCE: | DEATH | RATES(a), | BY | SEX |
|------------|-------------|-----|-----------|-------|-----------|----|-----|
| · | , | ΑU | STRALIA | | | | |

| | Death | rate from- | _ | | | | | | | | All ext | |
|----------|------------------|----------------|---------|--------|-------|--------|--------------|-----------------|---------------------|--------|--|--------|
| | Motor accides | vehicle its | Suicide | • | Homic | ide(c) | Other causes | external (d) | All external causes | | causes as a percentage of total deaths | |
| Period | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 1941 45 | 19 | 5 | 11 | 5 | 1 | 1 | 48 | 21 | 79 | 31 | 7.30 | 3.48 |
| 194650 | 30 | 6 | 14 | 5 | 1 | 1 | 46 | 21 | 91 | 33 | 8.44 | 3.83 |
| 1951-55 | 38 37 | 9 | 15 | 5 | 2 | 1 | 44 | 22 | 99 | 37 | 9.64 | 4.53 |
| 1956-60 | 37 | 11 | 17 | 6 | 2 | i | 38 | 20 | 93 | 39 | 9.57 | 4.95 |
| 1961 -65 | 38 | 13 | 19 | 9 | 2 | I | 34 | 19 | 93 | 42 | 9.54 | 5.50 |
| 1966-70 | 43 | 15 | 17 | 9 | | 1 | 33 | 20 | 95 | 45 | 9.61 | 5.71 |
| 1967 . | 42 | 14 | 19 | 11 | 2 | 1 | 35 | 20 | 98 | 47 | 10.08 | 6.11 |
| 1968 . | 43 | 14 | 17 | 8 | 2 | 1 | 34 | 21 | 95 | 45 | 9.43 | 5.51 |
| 1969 . | 44 | 16 | 17 | 8 | 2 | 1 | 30 | 18 | 92 | 43 | 9.54 | 5.65 |
| 1970 . | 46 | 17 | 17 | 8 | 2 | 1 | 32 | 19 | 97 | 45 | 9.67 | 5.58 |
| 1971 . | 45 | 15 | 18 | ġ. | 2 | 1 | 31 | 18 | 96 | 44 | 10.09 | 5.61 |
| 1972 . | 40 | 15 | 17 | 8 | 2 | 1 | 32 | 18 | 91 | 42 | 9.71 | 5.62 |
| 1973 . | 43 | 15 | 16 | 8 | 2 | 2 | 30 | 18 | 90 | 43 | 9.69 | 5.71 |

⁽a) Number of deaths per 100,000 of mean population. (b) Excludes particulars of full-blood Aborigines before 1967. (c) Includes deaths from injury purposely inflicted by other persons (not in war) and legal intervention. (d) Includes deaths from injury undetermined whether accidentally or purposely inflicted.

In 1973 the total number of deaths from accidental causes (BE47, BE48) was 6,805 (4,651 males and 2,154 females). Over half of the accidental deaths were the result of transport accidents. Of these, the numbers attributable to the major causes, and the percentages of the total accidental deaths in each case, were as follows: Motor vehicle traffic accidents, 3,694 (54.28 per cent); motor vehicle non-traffic accidents, 131 (1.93 per cent); other road vehicle accidents, 46 (0.68 per cent); railway accidents, 75 (1.10 per cent); water transport accidents, 108 (1.59 per cent); aircraft accidents, 28 (0.41 per cent); a total of 4,082 (59.99 per cent). Other important causes were accidental falls, 1,153 (16.94 per cent); accidental drowning (not in transport), 437 (6.42 per cent); accidents caused by fires and flames, 174 (2.56 per cent); and accidental poisonings, 113 (1.66 per cent).

Deaths from *suicide* (*BE49*) in 1973 numbered 1,528 (males, 1,036; females, 492). Poisoning, other than by gases, occurred in 546 cases (35.73 per cent of total deaths by suicide). Other important modes adopted, together with the numbers and relevant percentages, were as follows: firearms and explosives, 407 (26.64 per cent); poisoning by gases, 207 (13.55 per cent); hanging or strangulation 166 (10.86 per cent); submersion (drowning), 60 (3.93 per cent); other than unspecified modes, 142 (9.29 per cent). Of the 1,036 males who committed suicide, 376 (36.29 per cent) used firearms or explosives. For females the most common mode was poisoning (other than by gases). This was used in 307 cases (62.40 per cent).

Of the 443 deaths assigned in 1973 to all other external causes (*BE50*), there were 253 deaths from homicide and injury purposely inflicted by other persons, 3 deaths from legal intervention by firearms, 184 deaths from injury indetermined whether accidentally or purposely inflicted (of which 75 were due to poisoning other than by gases) and 3 deaths from late effects of injury due to operations of war.

Vital statistics of External Territories

The following table shows, for the year 1974, the number of marriages, births and deaths registered in the External Territories under the control of Australia. More detailed information will be found in *Demography*, Bulletin No. 86.

EXTERNAL TERRITORIES: VITAL STATISTICS, 1974

| Territory | | | Λ | Aarriages | Births | Deaths |
|-------------------------|--|------|---|-----------|--------|--------|
| Christmas Island . | | | | 12 | 32 | 4 |
| Cocos (Keeling) Islands | | | | 1 | 12 | 6 |
| Norfolk Island . | | | | 20 | 16 | 11 |

International vital statistics

Vital statistics rates for selected countries with relatively complete civil registration data are shown in the following table. The source of this information is the United Nations *Demographic Yearbook*. The yearbook contains rates for most countries and identifies the qualifications of the data applicable to different countries. The crude marriage, birth and death rates shown represent the number of 'events' per 1,000 of the population. Infant mortality rates are the number of deaths which occurred under one year of age per 1,000 live births. An explanation of the meaning of 'expectation of life at birth' is shown on page 193.

VITAL STATISTICS RATES: CERTAIN COUNTRIES—LATEST AVAILABLE YEAR(a)
(Source: United Nations Demographic Yearbook, 1973)

| | | Rates(a) | | | | | Expect life at t | ation of birth |
|------------------------------|------|----------|-------|-------|---------------------|---------|---------------------|-------------------|
| Country | Year | Marriage | Birth | Death | Infant mortality | Year | Male | Female |
| Australia | 1973 | 8.6 | 18.8 | 8.4 | 16.5 | 1973 | 68.2 | 75.2 |
| Canada | 1973 | 8.9 | 15 5 | 7.4 | . 16.8 | 196567 | 68.8 | 75.2 |
| Czechoslovakia | 1973 | 9.7 | 18.8 | 11.5 | 21.2 | 1970 | 66.2 | 72.9 |
| France | 1973 | 7.7 | 16.4 | 10.7 | 12.9 | 1971 | 68.5 | 76.1 |
| Germany, Federal Republic of | 1972 | 6.7 | 11.4 | 11.8 | 20.4 | 1968-70 | 67.2 | 73.4 |
| Greece | 1972 | 7.1 | 15.5 | 8.6 | 27.8 | 1960-62 | 67.5 | 70.7 |
| Hungary | 1973 | 9.8 | 15.0 | 11.8 | 33.5 | 1970 | 66.3 | 72.1 |
| Italy | 1973 | 7.6 | 16.0 | 9.9 | 25.7 | 1964-67 | 67.9 | 73.4 |
| Japan | 1973 | 10.4 | 19.4 | 6.5 | 11.7 | 1972 | 70.5 | 75.9 |
| Netherlands | 1973 | 8.0 | 14.5 | 8.2 | 11.6 | 1972 | 70.8 | 76.8 |
| New Zealand | 1973 | 8.9 | 20.5 | 8.5 | 16.2 | 1960-62 | 68.4 | 73.8 |
| Poland | 1972 | 9.3 | 17.4 | 8.0 | 28.5 | 1970-72 | 66.8 | 73.8 |
| Romania | 1972 | 7.6 | 18.8 | 9.2 | 40.0 | 1970-72 | 66.3 | 70.9 |
| Spain | 1973 | 7.7 | 19.2 | 8.5 | 15.1 | 1960 | 67.3 | 71.9 |
| Sri Lanka | 1972 | 6.9 | 29.5 | 7.7 | 45.1 | 1967 | 64 8 | 66.9 |
| Union of Soviet Socialist | | 0.5 | 27.5 | ,., | 45.1 | 1707 | 0, 0 | 00., |
| Republics | 1973 | 10.1 | 17.7 | 8.7 | 26.3 | 1970-71 | 65.0 | 74.0 |
| United Kingdom | 1972 | 8.6 | 15.0 | 12.1 | 17.5 | 1969-71 | 68.8 | 75. |
| United States of America | 1973 | 10.9 | 15.0 | 9.4 | 17.6 | 1972 | 67.4 | 75.: |
| Yugoslavia | 1973 | 8.8 | 18.0 | 8.7 | 43.3 | 1970-71 | 65.3 | 70. |

⁽a) Source for statistics other than Australia.



CHAPTER 9

HOUSING AND BUILDING

Pages 207-14 of this chapter give details of the characteristics of dwellings obtained from censuses, pages 214-27 contain a summary of building activities, pages 228-39 outline government activities in the field of housing, and pages 239-45 relate to financial arrangements associated with the erection or purchase of homes.

Further information on dwellings obtained from censuses is available in the detailed tables of the publications issued for each individual census. A list of the 1971 Census publications is shown in *Publications of the Australian Bureau of Statistics* (1.8).

More detailed information on building activity is contained in the annual bulletin Building and Construction (3.1) and the Quarterly Bulletin of Building Statistics (3.6), and current information is obtainable also in the Monthly Review of Business Statistics (1.4), the Digest of Current Economic Statistics (1.5), and the mimeographed statements Building Statistics; Number of Dwellings (quarterly) (3.5), Building Operations, Preliminary (quarterly) (3.7), and Building Approvals (monthly) (3.2). Details for particular States are available from publications issued regularly by the Deputy Commonwealth Statistician in each State. The Building Industry Quarterly published by the Department of Environment, Housing and Community Development contains further information on current trends in housing activity.

The annual reports of the Commonwealth and State Government Housing Authorities show further details of government activities in the field of housing.

Census dwellings

At each census of the population, in addition to the questions relating to personal particulars, there have been a number of questions relating to dwellings. A 'dwelling' is defined as any habitation occupied by a household group living together as a domestic unit, whether comprising the whole or only part of a building, and includes, in addition to houses and self-contained flats, a great variety of dwellings ranging from a single-roomed shack to a multi-roomed hotel or institution. This section contains particulars of such information on dwellings as is available from the 1971 Census, together with information from earlier censuses. In conformity with the 1967 repeal of section 127 of the Constitution, 1971 Census statistics include Aborigines. In order to provide comparability between the 1971 and 1966 censuses, tables showing 1966 data have been amended to include Aborigines or their dwellings (except where noted to the contrary) and therefore differ from the 1966 tables previously published.

Number of dwellings

The following table shows the number of occupied and unoccupied dwellings in Australia at each census from 1911 to 1971. Occupied dwellings are classified into 'private' and 'non-private' dwellings (see page 208 for definitions of 'private' and 'non-private' dwellings). Unoccupied dwellings include dwellings whose occupants are temporarily absent, holiday homes, and other temporarily vacant dwellings (see page 213 for full explanation of the term 'unoccupied').

DWELLINGS(a): AUSTRALIA, CENSUSES, 1911 TO 1971

| | | | Occupied | | | |
|-------|----|--|-----------|-----------------|-----------|-----------------|
| Censu | ıs | | Private | Non- private | Total | - Unoccupied |
| 1911 | | | 894,389 | 29,070 | 923,459 | 33,473 |
| 1921 | | | 1,107,010 | 46,275 | 1.153,285 | 51,163 |
| 1933 | | | 1,509,671 | 37,705 | 1,547,376 | 68,772 |
| 1947 | | | 1,873,623 | 34,272 | 1,907,895 | 47,041 |
| 1954 | | | 2,343,421 | 36,932 | 2,380,353 | 112,594 |
| 1961 | | | 2,781,945 | 35,325 | 2,817,270 | 194,114 |
| 1966 | | | 3,155,340 | 33,917 | 3,189,257 | 263,873 |
| 1971 | | | 3,670,553 | 24,006 | 3,694,559 | 339,057 |

⁽a) Excludes dwellings occupied solely by Aborigines before 1966.

The following table shows the number of occupied and unoccupied dwellings in the urban and rural areas of Australia at the Census of 30 June 1971. For delimitation of 'urban centres' see this Year Book, pages 142-3.

DWELLINGS: URBAN AND RURAL, AUSTRALIA, CENSUS 30 JUNE 1971

| | | | Occupied | | | | Unoccupied | d |
|----------|-----|---|-----------|-----------------|-----------|------------------------|------------|------------------------|
| | | | | | Total | | | |
| Division | | | Private | Non- private | Number | Percentage of total | Number | Percentage of total |
| Urban— | | | | | | | | |
| Major | | | 2,428,912 | 10,662 | 2,439,574 | 66.03 | 142,731 | 42.10 |
| Other | | | 755,196 | 7,734 | 762,930 | 20.65 | 94,183 | 27.78 |
| Rural | | • | 486,445 | 5,610 | 492,055 | 13.32 | 102,143 | 30.12 |
| To | tal | | 3,670,553 | 24,006 | 3,694,559 | 100.00 | 339,057 | 100.00 |

The total numbers of occupied and unoccupied dwellings in each State and Territory at the Censuses of 1966 and 1971 were as follows.

DWELLINGS: CENSUSES, 1966 AND 1971

| | | | Census 30. | June 1966 | Census 30 June 1971 | | | |
|--------------------|-------|------|--------------|------------|---------------------|------------|--|--|
| State or Territory | | | Occupied | Unoccupied | Occupied | Unoccupied | | |
| New South Wales | | | 1,190,010 | 101,546 | 1,364,542 | 124,522 | | |
| Victoria | | | 889,053 | 64,757 | 1,015,485 | 88,521 | | |
| Queensland . | | | 450,309 | 41,818 | 517,245 | 51,077 | | |
| South Australia | | | 302,626 | 25,110 | 344,112 | 30,553 | | |
| Western Australia | | | 225,701 | 17,965 | 286,845 | 28,274 | | |
| Tasmania . | | | 99,366 | 10,800 | 110,420 | 13,307 | | |
| Northern Territory | | | 8,637 | 380 | 17,792 | 929 | | |
| Australian Capital | Теггі | tory | 23,555 | 1,497 | 38,118 | 1,874 | | |
| Australia | | | 3,189,257 | 263,873 | 3,694,559 | 339,057 | | |

Class of dwelling (1966 and 1971)

The first of the following tables shows the numbers of the various classes of occupied dwellings in the major urban, other urban, and rural areas of Australia at the Census of 30 June 1971 and totals for the Censuses of 1966 and 1971. The second table shows numbers of the various classes of dwelling for each State and Territory at the 1971 Census.

Private dwellings were classified into the following categories for the 1971 Census:

- private house—includes separate, semi-detached, attached and terrace or row houses.
- villa unit—also includes dwellings variously described as town house, cottage unit, villa development, cottage flats.
- self-contained flat—part of a house or other building which can be completely closed off and which has its own cooking and bathing facilities. Includes home units.
- other private dwellings—comprises non-self contained parts or rooms of houses, flats or other premises. Also includes sheds, tents, garages, caravans and houseboats occupied on a permanent or semi-permanent basis.

Non-private dwellings includes hotels; motels; boarding houses and hostels; educational, religious and charitable institutions; hospitals; defence and penal establishments; caravan parks; staff barracks and quarters, etc.

Occupied dwellings, by class

NUMBERS AND PERCENTAGE DISTRIBUTION, URBAN AND RURAL(a), AUSTRALIA CENSUSES, 1966 AND 1971

| | Census 3 1966 | 30 June | Census 3 | | | | | |
|---|------------------|---|----------------|----------------|---------|-----------|---|--|
| Class of dwelling | Total | Proportion of total occupied dwellings | Major urban | Other urban | Rural | Total | Proportion of total occupied dwellings | Inter- censal increase or decrease |
| Occupied dwellings— Private dwellings— Private house Villa unit Self-contained flat Other private dwellings | 2,683,310 | 84.1 | 1,949,209 | 674,203 | 456,829 | 3,080,241 | 83.3 | 396,931 |
| | (b) | (b) | 34,131 | 3,685 | 1,532 | 39,348 | 1.1 | n.a. |
| | 345,645 | 10.8 | 389,203 | 58,759 | 5,121 | 453,083 | 12.3 | 107,438 |
| | 126,385 | 4.0 | 56,369 | 18,549 | 22,963 | 97,881 | 2.6 | -28,504 |
| Total private dwellings . Non-private dwellings(c) . Total occupied dwellings | 3,155,340 | <i>98.9</i> | 2,428,912 | 755,196 | 486,445 | 3,670,553 | 99.3 | 515,213 |
| | 33,917 | 1.1 | 10,662 | 7,734 | 5,610 | 24,006 | 0.7 | -9,911 |
| | 3,189,257 | 100.0 | 2,439,574 | 762.930 | 492,055 | 3,694,559 | 100.0 | 505,302 |

⁽a) Census, 30 June 1971 only. (b) Villa units were not separately identified at the 1966 Census. (c) Details of the number of each of the types of non-private dwellings are available on request.

Minus sign (-) denotes decrease.

OCCUPIED DWELLINGS, BY CLASS, CENSUS 30 JUNE 1971

| Class of dwelling | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Australia |
|---|-----------|-----------|---------|---------|---------|---------|--------|--------|-----------|
| Occupied dwellings— Private dwellings— | | | | | | | | | |
| Private dwellings— Private house | 1,086,360 | 854,636 | 442,985 | 306,628 | 247,769 | 98,749 | 10,668 | 32,446 | 3.080.241 |
| Villa unit | 5,995 | 15,300 | 1,676 | 13,430 | 1,925 | 647 | 125 | 250 | 39,348 |
| Self-contained flat . | 225,549 | 120,857 | 49,313 | 16,569 | 25,473 | 8,417 | 2,202 | 4,703 | 453,083 |
| Other private | | | | | | | | - | • |
| dwellings | 38,629 | 19,393 | 18,626 | 5,437 | 9,192 | 1,784 | 4,287 | 533 | 97,881 |
| Total private | | | | | | | | | |
| dwellings | 1,356,533 | 1,010,186 | 512,600 | 342,064 | 284,359 | 109,597 | 17,282 | 37,932 | 3,670,553 |
| Non-private dwellings(a | 8,009 | 5,299 | 4,645 | 2,048 | 2,486 | 823 | 510 | 186 | 24,006 |
| Total occupied dwellings | 1,364,542 | 1,015,485 | 517,245 | 344,112 | 286,845 | 110,420 | 17,792 | 38,118 | 3,694,559 |

⁽a) Details of the number of each of the types of non-private dwellings are available on request.

Population according to class of dwelling, etc. (1966 and 1971)

INMATES BY CLASS OF DWELLING: NUMBERS AND PERCENTAGE DISTRIBUTION URBAN AND RURAL(a), AUSTRALIA, CENSUSES, 1966 AND 1971

| | Census 30 June 1966 | | Census | Census 30 June 1971 | | | | | |
|--------------------------------------|------------------------|--------------------------------------|----------------|---------------------|-----------|------------|--------------------------------|--------------------------------------|--|
| | Total | Proportion of total population | Major urban | Other urban | Rural | Total | Proportion of total population | censal increase or decrease | |
| Persons enumerated in— | | | | | | | - | <u>-</u> | |
| Private dwellings— Private house | 9,836,988 | 84.8 | 6,877,496 | 2,312,620 | 1.651.101 | 10,841,217 | 85.0 | 1,004,229 | |
| Villa unit | . (b) | (b) | 68,118 | 8,431 | 5,690 | 82,239 | 0.6 | n.a. | |
| Self-contained flat | 834,179 | 7.2 | 874,268 | 137,780 | 13,173 | | 8.0 | 191,042 | |
| Other private dwellings . | 284,084 | 2.4 | 97,339 | 44,655 | 64,715 | 206,709 | 1.6 | <i>−77</i> ,375 | |
| Total private dwellings. | . 10,955,251 | 94.4 | 7,917,221 | 2,503,486 | 1,734,679 | 12,155,386 | 95.3 | 1,200,135 | |
| Non-private dwellings . | 594,081 | 5.1 | 308,759 | 181,140 | 86,130 | 576,029 | 4.5 | -18,052 | |
| Total | 11,549,332 | 99.5 | 8,225,980 | 2,684,626 | 1,820,809 | 12,731,415 | 99.8 | 1,182,083 | |
| Persons not enumerated in dwellings— | | | | | | | | | |
| Campers $out(c)$ | 30,478 | | 795 | 2,050 | 4,155 | 7,000 | 0.1 | -23,478 | |
| Migratory(d) | 19,688 | | | | | 17,223 | 0.1 | -2,465 | |
| Total population . | 11,599,498 | 100.0 | 8,226,775 | 2,686,676 | 1,824,964 | 12,755,638 | 100.0 | 1,156,140 | |

⁽a) Census, 30 June 1971 only. (b) Villa units were not separately identified at the 1966 Census. (c) Comprises persons living temporarily (e.g. on holidays) in tents, caravans or house-boats, or who were 'camped out' on Census night. (d) Comprises persons who on Census night were travelling on board ships in Australian waters, or ships which had left an Australian port prior to Census night with a next port of call in Australia. Also includes persons enumerated on long-distance trains, motor coaches or aircraft.

Minus sign (-) denotes decrease.

Occupied private dwellings

The tables on pages 210-13 show occupied private houses and self-contained flats classified according to various characteristics and facilities.

Nature of occupancy (1966 and 1971)

OCCUPIED PRIVATE HOUSES AND SELF-CONTAINED FLATS BY NATURE OF OCCUPANCY: AUSTRALIA, CENSUSES, 1966 AND 1971

| | Private hou | ses | | | Self-contai | Self-contained flats | | | |
|---|---------------------|---|---------------------|---|---------------------|-----------------------------|---------------------|-----------------------------|--|
| | Census 30. | June 1966 | Census 30 June 1971 | | Census 30 June 1966 | | Census 30 June 1971 | | |
| Nature of occupancy | Total | Percent- age of private houses | Total | Percent- age of private houses | Total | Percent- age of flats | Total | Percent- age of flats | |
| Owner or purchaser by instal- ments | 2,124,004 | 79.2 | 2,334,391 | 75.8 | 72,713 | 21.0 | 91,454 | 20.2 | |
| Tenant of government Tenant of employer | 133,104 | 5.0 | 164,284 | 5.3 | 27,348 | 7.9 | 34,111 7,538 | 7.5 | |
| Other tenant Other methods of occupancy | a 361,671 48,446 | (a)13.5 | 343,303 99,027 | 11.1 | a 237,488 5,645 | (a)68.7< 1.6 | 296,607 9,651 | 65.5 2.1 | |
| Not stated | 16,085 | 1.8 0.6 | 54,034 | 1.8 | 2,451 | 0.7 | 13,722 | 3.0 | |
| Total | 2,683,310 | 100.0 | 3,080,241 | 100.0 | 345,645 | 100.0 | 453,083 | 100.0 | |
| | | | | | | | | | |

⁽a) 'Tenant of employer' and 'other Tenant' were not separately identified at the 1966 Census.

Material of outer walls (1966 and 1971)

OCCUPIED PRIVATE HOUSES AND SELF-CONTAINED FLATS, BY MATERIAL OF OUTER WALLS: AUSTRALIA, CENSUSES, 1966 AND 1971

| | | | Census 30. | June 1966 | | | Census 30. | Iune 1971 | | |
|---------------------------|--|------------------|-----------------------------|----------------------------|-----------------------------|------------------|-----------------------------|----------------------------|-----------------------------|-------|
| Material of outer walls . | | Private house | Percent- age of total | Self- contained flat | Percent- age of total | Private house | Percent- age of total | Self- contained flat | Percent- age of total | |
| Brick | | | 674,335 | 25.1 | 224,962 | 65.1 | 882,847 | 28.7 | 325,952 | 71.9 |
| Brick veneer | | | 262,160 | 9.8 | 16,250 | 4.7 | 391,545 | , 12.7 | 24,212 | 5.3 |
| Stone | | | 68,919 | 2.6 | 6.515 | 1.9 | 69,726 | 2.3 | 6,362 | 1.4 |
| Concrete . | | | 68,187 | 2.5 | 17,678 | 5.1 | 68,922 | 2.2 | 25,405 | 5.6 |
| Timber . | | | 1.076.967 | 40.1 | 50,276 | 14.5 | 1,121,288 | 36.4 | 45,106 | 10.0 |
| Metal | | | 28,770 | 1.1 | 1.171 | 0.3 | 39,042 | 1.3 | 1,206 | 0.3 |
| Fibro-cement | | - | 495.718 | 18.5 | 28,577 | 8.3 | 499,019 | 16.2 | 24,410 | 5.4 |
| Other | | | 8,254 | 0.3 | 216 | 0.1 | 7,852 | 0.3 | 430 | 0.1 |
| Total | | | 2,683,310 | 100.0 | 345,645 | 100.0 | 3,080,241 | 100.0 | 453,083 | 100.0 |

Number of rooms

OCCUPIED PRIVATE DWELLINGS BY NUMBER OF ROOMS AND CLASS OF DWELLING AUSTRALIA, CENSUS, 30 JUNE 1971

| | | | | | | | Class of dwel | ling | | | | |
|---------------------------------|---------|------------------|---------------|----------------------------|--------|-------------------------------|---------------|--------|---------|--------|-----------|--|
| Number of rooms per dwelling(a) | | Private house | Villa unit | Self- contained flat | Other | Total private dwe!lings | | | | | | |
| 1 . | | | | | • | | 6,087 | 1,269 | 19,100 | 43,771 | 70,227 | |
| 2 . | | | | | | | 23,957 | 4,791 | 79,502 | 27,173 | 135,423 | |
| 3. | | | | | | | 95,603 | 10,437 | 134,006 | 13.586 | 253,632 | |
| 4 . | | | | | | | 460,652 | 16,665 | 152,403 | 5,189 | 634,909 | |
| 5. | | | | | | | 1,333,989 | 4,248 | 46,715 | 2,735 | 1,387,687 | |
| 6. | | | | | | | 726,508 | 1,214 | 13,240 | 1,816 | 742,778 | |
| Ž . | | | | | | | 276,212 | 326 | 3,978 | 968 | 281,484 | |
| 8 and | i over | • | | | | | 157,233 | 398 | 4,139 | 2,643 | 164,413 | |
| | Total | priv: | ate dw | elling | s. | | 3,080,241 | 39,348 | 453,083 | 97,881 | 3,670,553 | |
| Aver | age nur | nber | of roo | ms pe | r dwei | lling | 5.3 | 3.6 | 3.5 | 2.2 | 5.0 | |

⁽a) Bathrooms, toilets, pantries, laundries, storerooms, halls and rooms used only for business purposes are excluded, but permanently enclosed sleep-outs are included. A combined purpose room such as a living-dining or kitchen-dining room is counted as only one room.

OCCUPIED PRIVATE DWELLINGS BY NUMBER OF BEDROOMS AND CLASS OF DWELLING AUSTRALIA, CENSUS 30 JUNE 1971

| | | | | | | Class of dwel | ling | | | |
|---------------------------------|---------|--------|--------|------------------|---------------|----------------------------|--------|-------------------------------|--------|-----------|
| Number of bedrooms per dwelling | | | | Private house | Villa unit | Self- contained flat | Other | Total private dwellings | | |
| No bedroo | m . | | • | | | 9,365 | 2,162 | 26,000 | 39,716 | 77,243 |
| 1 | | | | | | 83,586 | 10,106 | 152,125 | 29,371 | 275,188 |
| 2 | | | | | | 718,696 | 21,761 | 217,283 | 9,544 | 967,284 |
| 3 | | | | | | 1,777,575 | 4,108 | 41,526 | 3,023 | 1,826,232 |
| 4 | | | | | | 392,092 | 477 | 5,113 | 1,155 | 398,837 |
| 5 and over | | | | | | 77,400 | 302 | 2,507 | 2,304 | 82,513 |
| Not stated | | | | | | 21,527 | 432 | 8,529 | 12,768 | 43,256 |
| Tota | l priva | ate dw | elling | s. | | 3,080,241 | 39,348 | 453,083 | 97,881 | 3,670,553 |
| Average n dwelling | umbe | r of | bedro | oms | рег | 2.9 | 1.8 | 1.6 | 0.8 | 2.6 |

Occupied self-contained flats

NUMBER OF OCCUPIED SELF-CONTAINED FLATS AND NUMBER OF INMATES BY NUMBER OF FLATS IN BLOCK: CENSUS 30 JUNE 1971

| | Numbe | r of flats in | n block | | | | |
|---|-------------------|-------------------|--------------------|--------------------|------------------|------------------|----------------------|
| State or Territory | l(a) | 2 | 3–8 | 9-16 | 17-32 | 33+ | Total |
| New South Wales- | | | | | | | |
| Number of self-contained flats | 19,919 | 26,794 | 80,749 | 55,755 | 26,399 | 15,933 | 225,549 |
| Number of inmates , | 51,781 | 69,374 | 191,739 | 123,699 | 53,615 | 30,140 | 520,348 |
| Victoria— | | | | | | | |
| Number of self-contained flats | 13,524 | 12,028 | 42,117, | | 12,159 | 8,358 | 120,857 |
| Number of inmates | 34,243 | 28,837 | 97,435 | 66,780 | 22,787 | 20,979 | 271,061 |
| Queensland | | | | | | | |
| Number of self-contained flats | 3,775 | 10,546 | 29,494 | 3,402 | 1,112 | 984 | 49,313 |
| Number of inmates | 9,388 | 27,477 | 65,355 | 6,576 | 2,142 | 1,819 | 112,757 |
| South Australia- | | | | | | | |
| Number of self-contained flats | 3,234 | 2,703 | 6,939 | 2,035 | 869 | 789 | 16,569 |
| Number of inmates | 6,866 | 6,109 | 14,385 | 3,944 | 1,592 | 1,366 | 34,262 |
| Western Australia— | | | | | | | |
| Number of self-contained flats | 1,541 | 1,208 | 5,780 | 5,390 | 4,956 | 6,598 | 25,473 |
| Number of inmates | 3,423 | 2,676 | 11,952 | 11,940 | 10,961 | 13,257 | 54,209 |
| Tasmania— | | | | | | | |
| Number of self-contained flats | 1,609 | 2,431 | 3,207 | 714 | 223 | 233 | 8,417 |
| Number of inmates | 3,692 | 5,872 | 6,523 | 1,171 | 464 | 439 | 18,161 |
| Northern Territory— | | | | | | | 2 202 |
| Number of self-contained flats | 244 | 222 | 985 | 241 | 379 | 131 | 2,202 |
| Number of inmates | 592 | 592 | 2,379 | 549 | 893 | 305 | 5,310 |
| Australian Capital Territory— | | | | | | 025 | 4 703 |
| Number of self-contained flats | 589 | 534 | 1,067 | 1,008 | 670 | 835 | 4,703 |
| Number of inmates | 1,196 | 1,267 | 2,222 | 2,035 | 1,294 | 1,099 | 9,113 |
| Australia— | | | | | | | |
| Number of self-contained flats Number of inmates | 44,435 111,181 | 56,466 142,204 | 170,338 391,990 | 101,216 216,694 | 46,767 93,748 | 33,861 69,404 | 453,083 1,025,221 |

⁽a) Represents flats that are not part of a multi-flat unit.

Facilities (1966 and 1971)

OCCUPIED PRIVATE HOUSES AND SELF-CONTAINED FLATS BY GAS ELECTRICITY AND TELEVISION FACILITIES: AUSTRALIA CENSUSES, 1966 AND 1971

| | | Census 3 | 0 June 1966 | Census 30 June 1971 | | |
|-----------------------------|---|------------------|----------------------------|---------------------|----------------------------|--|
| Facilities | | Private house | Self- contained flat | Private house | Self- contained flat | |
| With gas only | | 5,193 | 486 | 3,078 | 196 | |
| With electricity only | | 1,506,229 | 128,094 | 1,833,684 | 226,114 | |
| With gas and electricity | | 1,139,949 | 214,897 | 1,215,709 | 219,164 | |
| Neither gas nor electricity | | 24,109 | 272 | 9,440 | 207 | |
| Not stated | | 7,830- | 1,896 | 18,330 | 7,402 | |
| Total | | 2,683,310 | 345,645 | 3,080,241 | 453,083 | |
| With television | | 2,154,520 | 235,106 | 2,488,764 | 305,046 | |
| Without television | | 528,790 | 110,539 | 236,386 | 70,071 | |
| Not stated | ر | 320,790 | 110,3395 | 355,091 | 77,966 | |
| Total | | 2,683,310 | 345,645 | 3,080,241 | 453,083 | |

Note. Dwellings for which electricity was not stated but which had television have been classified as having electricity and therefore included as such in this table.

OCCUPIED PRIVATE DWELLINGS BY BATHROOM AND KITCHEN FACILITIES AND CLASS OF DWELLING: AUSTRALIA, CENSUS 30 JUNE 1971

| | c | lass of dwellin | | | | | |
|----------------------|---------|------------------|---------------|----------------------------|--------|-----------|------------------------|
| Facilities | _ | Private house | Villa unit | Self- contained flat | Other | Total | Proportion of total |
| Bathroom only . | | 7,847 | 325 | 1,235 | 7,960 | 17,367 | 0.5 |
| Kitchen only . | | 14,327 | 344 | 1,326 | 10,447 | 26,444 | 0.7 |
| Bathroom and kitchen | | 3,036,856 | 38,200 | 443,530 | 61,543 | 3,580,129 | 97.5 |
| Neither bathroom nor | kitchen | 3,930 | 130 | | 8,925 | 12,985 | 0.4 |
| Not stated | | 17,281 | 349 | 6,992 | 9,006 | 33,628 | 0.9 |
| Total | | 3,080,241 | 39,348 | 453,083 | 97,881 | 3,670,553 | 100.0 |

OCCUPIED PRIVATE HOUSES AND SELF-CONTAINED FLATS BY NUMBER OF MOTOR VEHICLES: URBAN AND RURAL(a), AUSTRALIA, CENSUSES, 1966 AND 1971

| 1 | Census 30 Jui | ne 1966 | Census 30 June 1971 | | | | | | | | | | |
|--------------------------|--|--|---|--|--|--|---|--|--|--|--|--|--|
| | | | Major urban | | Other urban | | Rural | | Total | | | | |
| Number of motor vehicles | Houses | Flats | Houses | uses Flats | Houses | Flats | Houses | Flats | Houses | Flats | | | |
| No vehicles . 1 | 557,392 1,400,206 517,566 114,800 38,838 54,508 | 131,051 164,948 27,466 4,083 1,251 16,836 | 367,305 980,979 461,605 86,338 20,949 32,033 | 139,441 194,127 35,472 4,338 2,071 13,754 | 110,934 365,315 151,463 27,766 8,430 10,295 | 15,386 32,923 6,832 1,033 541 2,044 | 41,940 198,269 131,455 50,652 28,100 6,413 | 976 2,815 845 197 103 185 | 520,179 1,544,563 744,523 164,756 57,479 48,741 | 155,803 229,865 43,149 5,568 2,715 15,983 | | | |
| Total . | 2,683,310 | 345,645 | 1,949,209 | 389,203 | 674,203 | 58,759 | 456,829 | 5,121 | 3,080,241 | 453,083 | | | |

(a) Census, 30 June 1971 only.

OCCUPIED PRIVATE DWELLINGS BY METHOD OF SEWAGE DISPOSAL AND CLASS OF DWELLING: AUSTRALIA, CENSUS 30 JUNE 1971

| | | | | Class of a | lwelling | | | | | |
|-----------------|---------|------|---|---------------------------------|----------|----------------------------|-----------|-----------|------------------------|--|
| Method of sewag | ge disp | osal | | Private Villa con house unit | | Self- contained flat | contained | | Proportion of total | |
| Mains sewer | | | | 1.955.150 | 34,196 | 402.237 | 53.250 | 2.444.833 | 66.5 | |
| Separate . | : | : | • | 786,471 | 3,947 | 35,922 | 12.340 | 838.680 | 22.8 | |
| Sanitary pan | | • | • | 227,984 | 582 | 5,342 | 7.370 | 241,278 | 6.6 | |
| Other | | | · | 90,300 | 238 | 827 | 14,272 | 105,637 | 2.9 | |
| Not stated . | | • | | 20,336 | 385 | 8,755 | 10,649 | 40,125 | 1.1 | |
| Total . | | • | | 3,080,241 | 39,348 | 453,083 | 97,881 | 3,670,553 | 100.0 | |

Unoccupied dwellings (1971)

An unoccupied dwelling is defined as a structure built specifically for private living purposes and which is habitable, though unoccupied at the time of the Census. The total number of unoccupied dwellings shown for any area does not represent the number of vacant dwellings available for sale or renting.

UNOCCUPIED PRIVATE DWELLINGS BY REASON UNOCCUPIED: NUMBERS AND PERCENTAGE DISTRIBUTION URBAN AND RURAL, AUSTRALIA CENSUS 30 JUNE 1971

| | Major urba | n | Other urb | an | Rural | | Total | |
|----------------------|------------|-----------------------------|-----------|-----------------------------|---------|-----------------------------|---------|-----------------------------|
| Reason unoccupied | Number | Per- centage of total | Number | Per- centage of total | Number | Per- centage of total | Number | Per- centage of total |
| For sale | 16,480 | 4.9 | 6,088 | 1.8 | 3,416 | 1.0 | 25,984 | 7.7 |
| To let | 23,027 | 6.8 | 12,154 | 3.6 | 6,260 | 1.8 | 41,441 | 12.2 |
| Newly built | 14,417 | 4.3 | 3,820 | 1.1 | 1,988 | 0.6 | 20,225 | 6.0 |
| Vacant for repair . | 7,049 | 2.1 | 2,925 | 0.9 | 3,141 | 0.9 | 13,115 | 3.9 |
| Holiday home | 13,822 | 4.1 | 37,403 | 11.0 | 41,257 | 12.2 | 92,482 | 27.3 |
| Condemned | 4,555 | 1.3 | 2,268 | 0.7 | 5,292 | 1.6 | 12,115 | 3.6 |
| Temporarily vacant . | 50,370 | 14.9 | 24,084 | 7.1 | 18,389 | 5.4 | 92,843 | 27.4 |
| Other reasons | 8,427 | 2.5 | 3,675 | 1.1 | 19,474 | 5.7 | 31,576 | 9.3 |
| Not stated | 4,584 | 1.4 | 1,766 | 0.5 | 2,926 | 0.9 | 9,276 | 2.7 |
| Total | 142,731 | 42.1 | 94,183 | 27.8 | 102,143 | 30.1 | 339,057 | 100.0 |

UNOCCUPIED PRIVATE DWELLINGS BY REASON UNOCCUPIED AND CLASS OF DWELLING: AUSTRALIA, CENSUS 30 JUNE 1971

| | Class of dwelling | • | | | | |
|---------------------|-------------------|---------------|----------------------------|-------|---------|------------------------|
| Reason unoccupied | Private house | Villa unit | Self- contained flat | Other | Total | Percentage of total |
| For sale | 20,609 | 1,302 | 3,952 | 121 | 25,984 | 7.7 |
| To let | 18,078 | 552 | 19,855 | 2,956 | 41,441 | 12.2 |
| Newly built | 13,354 | 1,129 | 5,570 | 172 | 20,225 | 6.0 |
| Vacant for repair . | 11,419 | 48 | 1,453 | 195 | 13,115 | 3.9 |
| Holiday home | 83,654 | 703 | 6,537 | 1,588 | 92,482 | 27.3 |
| Condemned | 11,485 | 12 | 508 | 110 | 12,115 | 3.6 |
| Temporarily vacant. | 71,909 | 1,963 | 16,176 | 2,795 | 92,843 | 27.4 |
| Other reasons | 28,956 | 203 | 1,839 | 578 | 31,576 | 9.3 |
| Not stated | 7,039 | 86 | 1,737 | 414 | 9,276 | 2.7 |
| Total | 266,503 | 5,998 | 57,627 | 8,929 | 339,057 | 100.0 |

Building

Building activity is a significant indicator of the level of economic activity. In addition, the level of building activity and the types of buildings being constructed affect the Australian physical and social environment. Building approvals statistics give an indication of the potential future level of investment of private individuals, companies and government agencies in approved building construction. As such they provide information about potential future building activity. Building operations statistics show the level of actual building construction activity in terms of the level of commencements and completions, building jobs under construction and the value of work done and yet to be done on building jobs.

Scope and coverage

The statistics relate to building structures, and exclude railways, roads, bridges, earthworks, and other non-building construction. Renovations, repairs and maintenance are excluded.

Statistics of building approvals are compiled from (a) Permits granted by local government authorities covering those areas subject to building control by those authorities, (b) Contracts let or day labour work approved by Commonwealth, State, semi-government, and local government authorities.

Statistics of building operations are compiled from returns obtained from (a) Contract (including speculative) builders and those engaged in alterations and additions, (b) Owner-builders, and (c) Government or semi-government authorities.

BUILDING 215

Details for owner-builders cover only those areas subject to building control by local government authorities. Details obtained from government authorities, and contract and speculative builders refer to all areas.

The collection covers all new dwellings, new other building jobs valued at \$10,000 and over, and alterations and additions (both to dwellings and other buildings) valued at \$10,000 and over. From 1966-67 to 1972-73 alterations and additions of \$10,000 and over were included with new dwellings and new other building. From 1973-74 alterations and additions (of \$10,000 and over) to new dwellings are shown separately but for other building, new work and alterations and additions continue to be shown combined.

Definitions

A dwelling is classified as either a 'house' or an 'other dwelling'. (a) A 'house' is defined as a building which has been designed or adapted so that its prime purpose is to be a single self-contained dwelling unit (i.e. includes bathing and cooking facilities), which is completely detached from other buildings, and occupies (except in such cases as dwellings built for employees or families of the owner or lessee of the land) a separate titled block of land. (b) An 'other dwelling' is defined as a self-contained dwelling unit other than a house as defined in (a) above. These include flats, home units, semi-detached dwellings, villa units, town houses, etc.

Non-self-contained dwelling units (e.g. those which might be located in motels, hostels, and institutions) are not included as dwellings and the value of this building is included in the appropriate category of other building. Temporary or makeshift dwellings are excluded from building statistics.

Commenced. A building is regarded as having been commenced when expenditure on building work is first reported.

Completed. A building is regarded as having been completed when it is reported as completed or in the case of owner-builders is reported as completed or substantially completed and occupied.

Under Construction. A building is regarded as being under construction at the end of a period if it has been commenced but has not been completed and work on it has not been abandoned.

Contract built houses. Those erected under contract, or in anticipation of sale or rental.

Owner-built houses. Those erected by an owner (other than a recognised builder) or under his direction without the services of a contractor responsible for the whole job.

Value of Building approved, commenced, completed, or under construction represents the estimated value of the whole job when completed, excluding the value of the land on which the job is carried out.

Value of Building Work Done represents the estimated value of the building work actually carried out during the period.

Value of Building Work Yet to be Done is the estimated value of work remaining to be done on building jobs under construction at the end of the period.

Building classification

Private or government. A building job is classified as 'private' or 'government' according to ownership at date of commencement.

Building is classified according to the function it is intended to serve. A building which is ancillary to other buildings or forms part of a group of related buildings is classified according to the function of the group as a whole.

Examples of the types of individual building jobs included under each main functional heading are as follows:

Hotels, etc. Includes motels, hostels, boarding houses and guest houses.

Shops. Includes cases, restaurants, retail markets and showrooms. Shops classified as government include government owned shop buildings for leasing.

Factories. Includes abattoirs, brickworks, power houses, printing offices and government workshops.

Offices. Includes banks, post offices and council chambers.

Other business premises. Includes service stations, bus depots, wholesale stores, telephone exchanges, television stations and studios, and warehouses.

Education. Includes schools, colleges, kindergartens, reference libraries and universities.

Religion. Includes churches, church halls, convents, seminaries and theological colleges.

Health. Includes ambulance stations, baby health clinics, convalescent homes, hospitals, nurses' quarters and sanatoria.

Approved . Commenced

Completed .

Under construction at end of period . .

Entertainment and recreation. Includes clubs, gymnasiums, public halls, squash courts and theatres.

Miscellaneous. Includes homes for aged, law courts, defence buildings, museums, orphanages, police stations and reformatories.

Persons working. Figures relate to persons working on the jobs of contractors who undertake the erection of new buildings and of government authorities which erect new buildings on their own account. They include persons working on alterations, additions, repairs and maintenance when these jobs are undertaken by such contractors and authorities. Contractors are asked to give details of all persons working on their jobs on a specified day, including working principals, men working as or for sub-contractors and men temporarily laid off on account of weather. Because of the intermittent employment of various types of sub-contractors on any particular job, it is sometimes difficult for contractors and authorities to provide precise particulars of the number of sub-contractors and the number of employees of sub-contractors working on their jobs on the specified day. This factor may cause some estimation by persons completing returns and some degree of understatement in figures shown in tables. On the other hand, because of frequent movement between jobs of some types of tradesmen (such as electricians) who may work on several jobs on the one day, a small element of duplication may occur. The figures exclude persons working on ownerbuilt houses, and employees of builders who undertake only alterations, additions, repairs and maintenance.

New houses approved, commenced, completed and under construction

26,261

12,162

26,902

15,778

The next table provides a summary for 1974-75 of the number of new houses approved, commenced, completed and under construction in each State and Territory. For a graph showing the number of new houses commenced, completed and under construction over a ten year period see plate 32, page 217.

NUMBER OF NEW HOUSES, 1974-75(a)

9,071

4.455

16,392

5,142

| N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|------------------|------------------|------|-----------------|----------------|--------------|--------|------------------|
| , | 23,506 24,218 | 14,014 13,796 | | 10,391 9,706 | 2,627 2,497 | 1,389 910 | • | 87,556 86,476 |

10,994

4.016

2,650

1,798

4,072

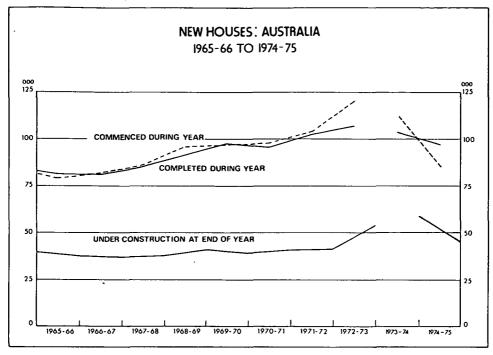
2.285

96,972

46,126

630

490



NOTE. BREAK IN SERIES FROM 1973-74, SEE PAGE 215

PLATE 32

The following table shows the number of new houses approved in each State or Territory, according to private and government ownership.

NUMBER OF NEW HOUSES APPROVED, BY OWNERSHIP

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--|---|---|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|-------------------------|---------------------|-------------------------|-------------------------------|
| | | | | | PRI | VATE | | | | | |
| 1970-71(a) . 1971-72(a) . 1972-73(a) . | • | | 27,066 27,535 32,273 | 23,213 26,908 34,350 | 14,332 18,213 22,797 | 6,594 7,245 9,559 | 9,255 10,833 14,572 | 1,969 1,996 2,457 | 234 298 334 | 2,673 2,748 3,416 | 85,336 95,776 119,758 |
| 1973–74 . 1974–75 . | | : | 30,883 18,437 | 29,974 21,018 | 20,185 11,970 | 9,681 7,259 | 12,057 9,457 | 2,629 1,954 | 402 212 | 2,707 2,633 | 108,518 72,940 |
| | | | | | GOVER | NMENT | , | | | | |
| 1970-71(a) . 1971-72(a) . 1972-73(a) . | • | | 4,109 2,393 3,054 | 1,466 1,510 1,983 | 2,049 1,515 1,841 | 2,151 1,105 1,395 | 2,570 1,972 2,424 | 612 488 601 | 889 634 586 | 972 877 1,233 | 14,818 10,494 13,117 |
| 1973–74 . 1974–75 . | : | : | 2,856 4,830 | 1,656 2,488 | 1,985 2,044 | 1,231 1,501 | 670 934 | 653 673 | 1,146 1,177 | 1,154 969 | 11,351 |
| | | | | | то | TAL | | | | · | |
| 1970-71(a) . 1971-72(a) . 1972-73(a) . | : | : | 31,175 29,928 35,327 | 24,679 28,418 36,333 | 16,381 19,728 24,638 | 8,745 8,350 10,954 | 11,825 12,805 16,996 | 2,581 2,484 3,058 | 1,123 932 920 | 3,645 3,625 4,649 | 100,154 106,270 132,875 |
| 1973–74 . 1974–75 . | | : | 33,739 23,267 | 31,630 23,506 | 22,170 14,014 | 10,912 8,760 | 12,727 10,391 | 3,282 2,627 | 1,548 1,389 | 3,861 3,602 | 119,869 87.556 |

⁽a) Includes alterations and additions valued at \$10,000 or more (see page 215).

The number of new houses completed represents the gross increase in the stock of houses. The number of new houses completed according to private and government ownership, is shown in the following table.

NUMBER OF NEW HOUSES COMPLETED, BY OWNERSHIP

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|---|---|----------------------------|----------------------------|----------------------------|-------------------------|----------------------------|-------------------------|---------------------|-------------------------|------------------------------|
| | | | | | PRI | VATE | | | | | |
| 1970-71(a) . 1971-72(a) . 1972-73(a) . | : | | 24,931 26,185 26,213 | 23,110 24,052 27,300 | 12,879 15,739 18,968 | 6,353 6,956 7,530 | 9,648 11,167 11,723 | 1,636 1,795 1,842 | 244 627 292 | 2,425 2,757 2,883 | 81,226 89,278 96,751 |
| 1973–74 . 1974–75 . | | | 27,021 23,349 | 26,265 24,205 | 19,018 14,363 | 8,127 7,883 | 11,238 10,148 | 2,233 2,102 | 343 202 | 2,791 2,850 | 97,036 85,102 |
| | | | | | GOVER | NMENT | • | | | | |
| 1970–71(a) . 1971–72(a) . 1972–73(a) . | | • | 4,120 3,846 2,352 | 2,069 1,575 960 | 1,806 1,737 1,728 | 1,955 2,105 1,447 | 2,273 2,120 2,057 | 627 466 542 | 611 864 681 | 744 962 800 | 14,205 13,675 10,567 |
| 1973–74 . 1974–75 . | : | : | 1,700 2,912 | 800 2,697 | 1,437 2,029 | 825 1,188 | 1,279 846 | 586 548 | 603 428 | 642 1,222 | 7,872 11,870 |
| | | | •• | | то | ΓAL | | | | | |
| 1970–71(a) . 1971–72(a) . 1972–73(a) . | | | 29,051 30,031 28,565 | 25,179 25,627 28,260 | 14,685 17,476 20,696 | 8,308 9,061 8,977 | 11,921 13,287 13,780 | 2,263 2,261 2,384 | 855 1,491 973 | 3,169 3,719 3,683 | 95,431 102,953 107,318 |
| 1973–74 . 1974–75 . | : | : | 28,721 26,261 | 27,065 26,902 | 20,455 16,392 | 8,952 9,071 | 12,517 10,994 | 2,819 2,650 | 946 630 | 3,433 4,072 | 104,908 |

⁽a) Includes alterations and additions valued at \$10,000 or more (see page 215).

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New houses completed by material of outer walls

The use of certain materials for outer walls is dictated by such factors as cost, durability, appearance and climatic conditions. Changes in the materials used over time indicate changes in the characteristics of the housing stock.

The following tables show the number of new houses completed in each State and Territory during 1974-75 and in Australia during the years 1970-71 to 1974-75, classified according to the material of their outer walls.

NUMBER OF NEW HOUSES COMPLETED, BY MATERIAL OF OUTER WALLS, 1974-75

| Material of outer wall | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T.(a) | A.C.T. | Aust.(a) |
|--|-----------------------------------|---------------------------------------|---|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------|------------|--|
| Brick, concrete and stone Brick veneer Wood (weatherboard, etc.) Asbestos-cement Other | 1,783 18,379 1,147 4,415 | 1,094 23,098 676 1,935 99 | 1,542 8,651 2,454 3,477 268 | 4,138 3,611 84 1,224 14 | 8,189 1,457 23 1,284 41 | 167 2,160 116 182 25 | 185 59 1 159 50 | 3,957 1 | 17,211 61,372 4,502 12,676 1,035 |
| Total | . 26,261 | 26,902 | 16,392 | 9,071 | 10,994 | 2,650 | 454 | 4,072 | 96,796 |

⁽a) Excludes new houses completed in Darwin in December quarter 1974 for which details are not available.

NUMBER OF NEW HOUSES COMPLETED, BY MATERIAL OF OUTER WALLS, AUSTRALIA

| Material of outer walls | | 1970–71(a) | 1971-72(a) | 1972-73(a) | 1973–74 | 1974-75(b) |
|---------------------------|------|------------|------------|------------|---------|------------|
| Brick, concrete and stone | | 16,911 | 19,599 | 20.312 | 19.059 | 17,211 |
| Brick veneer | | 55,616 | 60.882 | 66,109 | 66,284 | 61,372 |
| Wood (weatherboard, etc). | | 8,237 | 8,204 | 7,531 | 6,077 | 4,502 |
| Asbestos-cement | | 13,763 | 13,085 | 12,542 | 12,462 | 12,676 |
| Other | | 904 | 1,183 | 824 | 1,026 | 1,035 |
| Total | | 95,431 | 102,953 | 107,318 | 104,908 | 96,796 |

⁽a) Includes alterations and additions valued at \$10,000 or more (see page 215). (b) Excludes new houses completed in Darwin in December quarter 1974 for which details are not available.

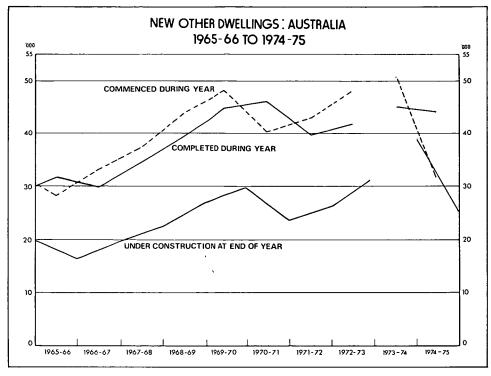
New other dwellings approved, commenced, completed and under construction

The level of other dwelling construction is highly variable and does not follow the regular pattern experienced in house construction. This can mainly be explained by the large extent of speculative building of private flats and also the generally larger size of such projects. Although construction of government owned other dwellings is substantial, the proportion of government owned other dwellings to total other dwellings constructed is smaller than that of government owned houses to total houses.

The following table shows the number of new other dwellings approved, commenced, completed and under construction for the year 1974–75. For a graph showing the number of new other dwellings commenced, completed and under construction over a ten year period *see* plate 33, page 220.

NUMBER OF NEW OTHER DWELLINGS, 1974-75

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | <i>N.T.</i> | A.C.T. | Aust. |
|-----|----|--------|----------------------------|--|--|--|---|--|--|--|
| | | 14.858 | 7.105 | 4.095 | 3,920 | 2,411 | 695 | 132 | 551 | 33,767 |
| | | 13,240 | 7.438 | 3,593 | 3,633 | 2,316 | 730 | 272 | 411 | 31,633 |
| | | 18,648 | 10,440 | 5,988 | 3,802 | 3,300 | 812 | 274 | 859 | 44,123 |
| ion | at | • | • | • | • | | | | | |
| | | 10,039 | 7,116 | 2,437 | 3,187 | 1,165 | 571 | 306 | 604 | 25,425 |
| | | | 14,858 13,240 18,648 | 14,858 7,105 13,240 7,438 18,648 10,440 tion at | 14,858 7,105 4,095 13,240 7,438 3,593 18,648 10,440 5,988 tion at | 14,858 7,105 4,095 3,920 13,240 7,438 3,593 3,633 18,648 10,440 5,988 3,802 tion at | 14,858 7,105 4,095 3,920 2,411 13,240 7,438 3,593 3,633 2,316 18,648 10,440 5,988 3,802 3,300 lion at | 14,858 7,105 4,095 3,920 2,411 695 13,240 7,438 3,593 3,633 2,316 730 18,648 10,440 5,988 3,802 3,300 812 tion at | 14,858 7,105 4,095 3,920 2,411 695 132 13,240 7,438 3,593 3,633 2,316 730 272 18,648 10,440 5,988 3,802 3,300 812 274 tion at | 14,858 7,105 4,095 3,920 2,411 695 132 551 13,240 7,438 3,593 3,633 2,316 730 272 411 18,648 10,440 5,988 3,802 3,300 812 274 859 tion at |



NOTE. BREAK IN SERIES FROM 1973-74, SEE PAGE 215

PLATE 33

The following table shows the number of new other dwellings approved in each State or Territory according to private and government ownership.

NUMBER OF NEW OTHER DWELLINGS APPROVED, BY OWNERSHIP

| Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------|------------------------------|--|--|
| | PRIV | ATE | | | | | |
| 8,612 9,085 12,872 | 4,409 5,899 8,827 | 4,993 4,579 3,578 | 1,281 1,120 890 | 548 642 719 | 179 565 452 | 246 347 542 | 37,010 40,897 50,182 |
| 12,028 6,685 | 9,334 4,059 | 5,398 3,127 | 3,438 2,250 | 773 572 | 282 65 | 509 261 | 56,442 28,607 |
| | GOVERN | MENT | | | | | |
| 1,059 1,218 797 | 29 223 484 | 176 96 228 | 612 135 255 | 62 267 49 | 68 74 40 | 198 | 3,862 3,079 3,691 |
| 868 420 | 177 36 | 323 793 | 456 161 | 118 123 | 163 67 | 270 290 | 3,409 5,160 |
| | тот | AL | | | | | |
| 9,671 10,303 13,669 12,896 | 4,438 6,122 9,311 9,511 | 5,169 4,675 3,806 5,721 | 1,893 1,255 1,145 3,894 | 610 909 768 891 | 247 639 492 445 | 246 545 542 779 | 40,872 43,976 53,873 59,851 33,767 |
| | | 12,896 9,511 | 12,896 9,511 5,721 | 12,896 9,511 5,721 3,894 | 12,896 9,511 5,721 3,894 891 | $\frac{1}{12,896}$ $\frac{1}{9,511}$ $\frac{1}{5,721}$ $\frac{1}{3,894}$ $\frac{1}{891}$ $\frac{1}{445}$ | $\frac{1}{12,896}$ $\frac{9,511}{9,511}$ $\frac{5,721}{5,721}$ $\frac{3,894}{3,894}$ $\frac{891}{891}$ $\frac{445}{445}$ $\frac{779}{779}$ |

⁽a) Includes alterations and additions valued at \$10,000 or more (see page 215).

BUILDING 221

The number of new other dwellings commenced in each State and Territory is shown in the following table.

NUMBER OF NEW OTHER DWELLINGS COMMENCED

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------------------------|---|---|--------|-----------------|----------------|----------------|----------------|------------|------------|------------|------------------|
| 1970–71(a) . | | | 18,912 | 10.312 | 3.639 | 4.282 | 1.759 | 747 | 435 | 310 | 40,396 |
| 1971-72(a). | | | 19,516 | 10,335 | 5,324 | 4,405 | 1,340 | 860 | 634 | 412 | 42,826 |
| 1972–73(a). | • | ٠ | 21,208 | 12,548 | 7,083 | 4,112 | 1,236 | 765 | 535 | 461 | 47,948 |
| 1973-74 . 1974-75 . | | | 21,005 | 12,142 7,438 | 8,132 3,593 | 4,439 3,633 | 3,214 2,316 | 760 730 | 429 272 | 801 411 | 50,922 31,633 |

(a) Includes alterations and additions valued at \$10,000 or more (see page 215).

The following table shows the number of new other dwellings completed in each State and Territory, according to private and government ownership.

NUMBER OF NEW OTHER DWELLINGS COMPLETED, BY OWNERSHIP

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|----------|---|----------------------------|---------------------------|-------------------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|----------------------------|
| | | | | | PRIV | 'ATE | | | | | |
| 1970-71(a) . 1972-71(a) . 1972-73(a) . | | : | 19,461 16,453 18,145 | 11,071 8,821 8,686 | 3,159 4,482 5,538 | 3,755 4,114 4,039 | 3,608 992 770 | 583 598 645 | 267 378 425 | 333 192 352 | 42,237 36,030 38,600 |
| 1973-74 . 1974-75 . | • | | 18,223 17,547 | 9,335 9,650 | 6,540 5,739 | 3,460 3,303 | 2,711 2,827 | 655 627 | 392 226 | 260 659 | 41,576 40,578 |
| | | | | | GOVER | NMENT | | | | | |
| 1970-71(a) . 1971-72(a) . 1972-73(a) . | · · | • | 885 1,536 1,203 | 1,016 1,270 1,237 | 13 205 | 245 70 178 | 1,405 603 150 | 84 169 136 | 100 110 23 | 94 | 3,735 3,771 3,226 |
| 1973–74 . 1974–75 . | <i>.</i> | : | 1,177 1,101 | 719 790 | 221 249 | 495 499 | 835 473 | 51 185 | 46 48 | 200 | 3,544 3,545 |
| | | | | | то | ΓAL | | | | | |
| 1970-71(a) . 1971-72(a) . 1972-73(a) . | | | 20,346 17,989 19,348 | 12,087 10,091 9,923 | 3,159 4,495 5,743 | 4,000 4,184 4,217 | 5,013 1,595 920 | 667 767 781 | 367 488 448 | 333 192 446 | 45,972 39,801 41,826 |
| 1973-74 . 1974-75 . | | | 19,400 18,648 | 10,054 10,440 | 6,761 5,988 | 3,955 3,802 | 3,546 3,300 | 706 812 | 438 274 | 260 859 | 45,120 44,123 |

⁽a) Includes alterations and additions valued at \$10,000 or more (see page 215).

Value of buildings approved, commenced, completed and under construction

The following table summarises the values of all buildings approved, commenced, completed under construction, the value of work done, and the value of work yet to be done in each State and Territory.

VALUE OF BUILDING WORK, BY STAGE OF CONSTRUCTION (\$'000)

| | | | | | • | | | | |
|--------------------|------------------------|-----------|--------------------|--------------------|---------|---------|---------|----------|-----------|
| Year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| - | | | | APPRO | VED | | | | |
| 1970–71 | . 1,028,127 | 625,908 | 373,568 | 209,354 | 307,680 | 68,043 | 51,295 | 102,266 | 2,766,241 |
| 1971-72 | . 1,111,808 | 763,836 | 411,672 | 238,940 | 293,340 | 70,086 | 53,507 | 95,716 | 3,038,904 |
| 1972–73 | . 1,287,256 | 1,087,202 | 608,823 | 280,772 | 389,211 | 90,422 | 62,513 | 146,146 | 3,952,344 |
| 1973-74 | . 1,503,933 | 1,155,696 | 744,497 | 394,852 | 434,928 | 100,719 | 99,832 | 169,811 | 4,604,267 |
| 1974–75 | . 1,218,274 | 1,088,734 | 610,403 | 369,896 | 395,904 | 112,109 | 71,394 | 266,594 | 4,133,310 |
| | | | | сомме | NCED | | | | |
| 1970–71 | . 1,104,352 | 672,037 | 383,190 | 217,912 | 317,880 | 70,189 | 57,593 | 115,726 | 2,938,879 |
| 1971–72 | . 1,180,388 | 733,418 | 428,469 | 226,132 | 297,701 | 64,319 | 67,242 | 98,994 | 3,096,663 |
| 1972–73 | . 1,365,861 | 1,048,141 | 584,517 | 272,299 | 363,006 | 90,607 | 72,827 | 145,589 | 3,942,846 |
| 1973-74 | . 1,503,398 | 1,172,975 | 733,969 | 359,192 | 428,953 | 107,126 | 101,235 | 178,989 | 4,585,840 |
| 1974–75 | . 1,313,997 | 1,080,783 | 637,028 | 36 4,58 6 | 402,758 | 113,180 | 61,342 | 189,445 | 4,163,119 |
| | | | | COMPLI | ETED | | | | |
| 1970-71 | . 946,552 | 667,966 | 333,785 | 200,895 | 365,012 | 59,684 | 34,006 | 83,139 | 2,691,039 |
| 1971-72 | . 1,138,253 | 677,381 | 397,748 | 215,036 | 331,440 | 69,717 | 71,132 | 90,367 | 2,991,074 |
| 1972-73 | . 1,146,793 | 809,900 | 509,288 | 255,394 | 324,013 | 78,104 | 51,524 | 115,267 | 3,290,282 |
| 1973-74 | . 1,326,619 | 910,433 | 586,694 | 272,296 | 351,165 | 89,030 | 63,525 | 131,375 | 3,731,13 |
| 1974–75 | . 1,472,629 | | 663,206 | 367,403 | 412,020 | 99,494 | 35,201 | 172,588 | 4,330,819 |
| | | UNDE | R CONST | RUCTIO | N AT EN | D OF YE | EAR | | |
| 1970-71 | . 986,280 | 520,378 | 211,182 | 174,376 | 209,675 | 63,465 | 52,971 | 116,892 | 2,335,219 |
| 1971-72 | . 1,046,784 | | 252,176 | 186,408 | 184,096 | 61,636 | 49,487 | 135,293 | 2,514,123 |
| 1972-73 | . 1,319,571 | 860,390 | 335,012 | 210,844 | 225,219 | 76,522 | 69,708 | 172,428 | 3,269,694 |
| 1973-74 | . 1,583,157 | | 501,757 | 312,045 | 310,953 | 97,363 | 107,816 | 246,928 | 4,330,88 |
| 1974–75 | . 1,613,272 | | 512,016 | 342,362 | 322,879 | 116,319 | 113,253 | 286,827 | 4,535,23 |
| | | VALU | JE OF W | ORK DO | NE DUR | ING YEA | .R | | |
| 1970-71 | . 1,028,476 | 677,474 | 345,769 | 209,716 | 347,022 | 65,446 | 47,446 | 94,284 | 2,815,633 |
| 1971-72 | . 1,179,617 | 713,369 | 425,343 | 229,050 | 329,811 | 70,181 | 73,104 | 111,958 | 3,132,43 |
| 1972-73 | . 1,277,708 | 882,786 | 524,395 | 262,277 | 323,806 | 78,145 | 60,531 | 132,723 | 3,542,36 |
| 1973-74 | . 1,434,433 | | 668,810 | 313,146 | 396,897 | 95,969 | 63,682 | 157,296 | 4,214,89 |
| 1974-75 | . 1,597,224 | | 699,869 | 398,525 | 450,535 | 116,980 | 60,450 | 185,218 | 4,715,17 |
| | | | | | | | | 103,210 | +,,12,17 |
| VA | LUE OF WO | ORK YET | | ONE ON | | NGS UNI | DER CON | IST RUCT | ION |
| 1970-71 | . 549,064 | 274,561 | 110,131 | 98,807 | 110,402 | 32,691 | 27,352 | 74,785 | 1,277,79 |
| 1971-72 | . 571,933 | 320,543 | 123,509 | 96,994 | 86,784 | 30,464 | 22,566 | 71,852 | 1,324,64 |
| 1972-73 | . 718,760 | 513,407 | 191,238 | 114,264 | 128,519 | 45,458 | 37,661 | 92,092 | 1,841.39 |
| | | | | | 169,563 | 60,058 | 76,115 | 140,131 | 2,434,07 |
| | የል፣ ነጻል | 656 476 | | | | | | | |
| 1973-74 1974-75 | . 881,364 . 834,290 | | 275,866 250,137 | 174,549 171,384 | 143,825 | 62,591 | 73,330 | 168,104 | 2,326,17 |

The following table shows the values of approvals for dwellings, other new buildings, and alterations and additions in Australia. From 1966-67 to 1972-73 alterations and additions of \$10,000 and over were included with new dwellings and new other building. From 1973-74 alterations and additions (of \$10,000 and over) to new dwellings are shown separately but, for other building, new work and alterations and additions continue to be shown combined.

VALUE OF BUILDING APPROVED, AUSTRALIA (\$'000)

| Type of building | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---|--------|--------|-----|-------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|
| New dwellings . Alterations and addition Other building . | ons to | dwelli | ngs | 1,448,099 (a) 1,318,143 | 1,647,218 (a) 1,391,684 | 2,292,016 (a) 1,660,326 | 2,652,776 67,223 1,884,275 | 2,246,223 100,785 1,786,302 |
| Total building | | | | 2,766,241 | 3,038,901 | 3,952,336 | 4,604,267 | 4,133,308 |
| Private Government | : | : | : | 2,127,384 638,855 | 2,401,544 637,359 | 3,222,570 729,757 | 3,674,272 930,004 | 2,821,362 1,311,950 |

(a) Included with new dwellings.

The following tables show the value of all buildings completed in each State and Territory during 1974-75 and in Australia during the years 1970-71 to 1974-75, according to the class of building (1970-71 to 1974-75) and ownership (1972-73 to 1974-75). The classification of non-residential buildings by type of building is according to the function a building is intended to serve.

VALUE OF BUILDINGS COMPLETED, BY CLASS OF BUILDING, 1974-75 (\$'000)

| Class of building | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|----------------------------------|-----------|-----------|---------|---------|---------|--------|----------|---------|--------------|
| New houses- | | | | | | | | | |
| Brick, concrete and | | | | | | | | | |
| stone | 53,766 | 28,186 | 33,592 | 88,274 | 145,001 | 4,114 | (a)3,799 | 3,995 | |
| Brick veneer | 392,838 | 449,799 | 185,650 | 61,096 | 33,221 | 40,983 | (a)1,637 | 88,000 | (a)1,253,224 |
| Wood (weather- | 16 400 | 0.044 | | | | | | | . \ |
| board, etc.) . Asbestos-cement . | 16,423 | 9,864 | 34,690 | 1,376 | 317 | 1,268 | (a)30 | 13 | |
| Other | 58,070 | 22,200 | 50,030 | 15,844 | 19,228 | 1,430 | (a)2,845 | 44 | (a)169,647 |
| Other | 7,625 | 1,497 | 5,056 | 155 | 839 | 361 | (a)1,318 | 23 | (a)16,874 |
| Total new | | | | | | | | | |
| houses . | 528,722 | 511,546 | 309,017 | 166,744 | 198,605 | 48,154 | 13,269 | 92,031 | 1,868,088 |
| | , | | 302,017 | 100,744 | 170,005 | 40,134 | 15,207 | ,2,00. | 1,000,000 |
| New other dwellings | 258,159 | 129,749 | 86,578 | 44,916 | 38,883 | 10,029 | 3,537 | 14,274 | 586,125 |
| | | | • | • | • | - | | | |
| Total new | | | | | | | | | |
| dwellings . | 786,880 | 641,295 | 395,595 | 211,660 | 237,486 | 58,182 | 16,806 | 106,305 | 2,454,209 |
| Alterations and | | | | | | | | | |
| additions to | | | | | | | | | |
| dwellings | 53,024 | 19.075 | 6 727 | 2 (10 | 4.430 | 642 | 118 | 4,483 | 92,125 |
| owenings | 33,024 | 19,073 | 6,737 | 3,618 | 4,428 | 042 | 110 | 4,403 | 92,123 |
| | | | | | | | | | |
| Hotels, hostels, etc. | 22,067 | 24,344 | 20,228 | 5,085 | 9.905 | 2,255 | 1,781 | 1,498 | 87,163 |
| Shops | 55,664 | 54,506 | 30,146 | 10,967 | 16,656 | 3,156 | 1,189 | 3,052 | 175,336 |
| Factories | 135,102 | 100,479 | 34,910 | 21,684 | 18.216 | 5.670 | 1,748 | 1,323 | 319,132 |
| Offices | 162,024 | 87,014 | 42,823 | 25,824 | 18,444 | 5,720 | 1,422 | 28,647 | 371,918 |
| Other business | | • | | • | • | • | | | |
| premises | 67,524 | 35,792 | 25,258 | 9,323 | 16,575 | 4,296 | 3,963 | 3,351 | 166,082 |
| Education | 82,335 | 89,578 | 47,196 | 33,514 | 39,965 | 9,980 | 1,802 | 14,138 | 318,508 |
| Religion | 7,858 | 3.120 | 2,295 | 758 | 2,030 | 825 | 100 | 148 | 17,134 |
| Health | 29,408 | 19,484 | 9.787 | 22,442 | 17,341 | 3,121 | 3,338 | 1,932 | 106,853 |
| Entertainment and | • | | -, | , | .,, | -, | -, | | • |
| recreation | 36,783 | 11.888 | 14,370 | 9.889 | 13.020 | 1.701 | 426 | 1,075 | 89,152 |
| Miscellaneous | 33,957 | 21,702 | 33,862 | 12,639 | 17,958 | 3,946 | 2,509 | 6,633 | 133,206 |
| T-1-1 -11 | | - | - | • | • | • | • | | |
| Total other | < 33 mc - | | | | | | | | 1 704 404 |
| buildings . | 632,726 | 447,909 | 260,875 | 152,123 | 170,105 | 40,669 | 18,277 | 61,800 | 1,784,484 |
| Total buildings | 1,472,629 | 1,108,278 | 663,206 | 367,403 | 412,020 | 99,494 | 35,201 | 172,588 | 4,330,819 |
| | | | | | | | | | |

⁽a) Excludes the value of new houses completed in Darwin in December quarter 1974 for which details are not available.

HOUSING AND BUILDING

VALUE OF BUILDINGS COMPLETED, BY CLASS OF BUILDING, AUSTRALIA (\$'000)

| Class of building | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974–75 |
|--|-----------|-----------|-----------|-----------|--------------|
| New houses— | | | | | |
| Brick, concrete and stone | 225,153 | 279,313 | 294,196 | 324,606 | (a)360,727 |
| Brick veneer | 671,991 | 781,501 | 932,187 | 1,114,607 | (a)1,253,224 |
| Wood (weatherboard, etc.) | 74,037 | 76,829 | 75,246 | 69,399 | (a)63,981 |
| Asbestos-cement | 118,297 | 119,949 | 123,724 | 140,788 | (a)169,647 |
| Other | 8,068 | 13,737 | 9,558 | 13,037 | (a)16,874 |
| Total new houses | 1,097,548 | 1,271,329 | 1,434,912 | 1,662,440 | 1,868,088 |
| New other dwellings | 368,427 | 337,869 | 387,315 | 480,538 | 586,125 |
| Total new dwellings | 1,465,974 | 1,609,195 | 1,822,228 | 2,142,976 | 2,454,209 |
| Alterations and additions to dwellings | (b) | (b) | (b) | 55,594 | 92,125 |
| Hotels, hostels, etc. | 79,263 | 83,767 | 95,442 | 81,969 | 87,163 |
| Shops | 96,355 | 100,932 | 137,709 | 153,410 | 175,336 |
| Factories | 211,204 | 259,341 | 199,001 | 281,392 | 319,132 |
| Offices | 243,621 | 291,234 | 318,201 | 381,130 | 371,918 |
| Other business premises | 156,774 | 151,082 | 175,795 | 130,635 | 166,082 |
| Education | 180,796 | 214,404 | 250,185 | 216,636 | 318,508 |
| Religion | 13,719 | 12,488 | 12,263 | 12,685 | 17,134 |
| Health | 92,037 | 96,254 | 102,999 | 80,224 | 106,853 |
| Entertainment and recreation . | 47,929 | 57,678 | 65,976 | 111,766 | 89,152 |
| Micsellaneous | 103,370 | 114,704 | 110,481 | 82,721 | 133,206 |
| Total other buildings | 1,225,064 | 1,381,885 | 1,468,054 | 1,532,563 | 1,784,484 |
| Total buildings | 2,691,039 | 2,991,074 | 3,290,283 | 3,731,138 | 4,330,819 |

⁽a) Excludes the value of new houses completed in Darwin in December quarter 1974 for which details are not available.
(b) Included with new dwellings.

VALUE OF BUILDINGS COMPLETED, BY CLASS OF BUILDING AND OWNERSHIP AUSTRALIA (\$'000)

| | Private | | | Government | | |
|------------------------------|-----------|-----------|--------------|------------|---------|-----------|
| Class of building | 1972-73 | 1973–74 | 1974-75 | 1972–73 | 1973-74 | 1974-75 |
| New houses— | | | | | | |
| Brick, concrete and stone . | 286,186 | 319,687 | (a)349,972 | 8,011 | 4,919 | (a)10,751 |
| Brick veneer | 873,574 | 1.065,747 | (a)1,153,904 | 58,613 | 48,860 | (a)99,315 |
| Wood (weatherboard, etc.). | 64,118 | 60,491 | (a)50.333 | 11,129 | 8,908 | (a)13,651 |
| Asbestos-cement | 99,477 | 115,992 | (a)134,386 | 24,249 | 24,795 | (a)35,264 |
| Other | 8,503 | 10,833 | (a)15,432 | 1,056 | 2,204 | (a)1,443 |
| Total new houses . | 1,331,856 | 1,572,756 | 1,706,039 | 103,057 | 89,681 | 162,050 |
| New other dwellings | 361,524 | 445,571 | 546,939 | 25,791 | 34,971 | 39,183 |
| Total new dwellings . | 1,693,380 | 2,018,326 | 2,252,979 | 128,848 | 124,653 | 201,234 |
| Alterations and additions to | | | | | | |
| dwellings | (b) | 55,115 | 91,424 | (b) | 479 | 703 |
| Hotels, hostels, etc. | 91.582 | 79,716 | 81,076 | 3,858 | 2,253 | 6,088 |
| Shops | 136,430 | 151,902 | 173,174 | 1,280 | 1,509 | 2,161 |
| Factories | 183,627 | 259,527 | 285,181 | 15,375 | 21.868 | 33,951 |
| Offices | 241,307 | 292,027 | 292,599 | 76,895 | 89,096 | 79,320 |
| Other business premises . | 107,535 | 93,517 | 106,921 | 68,260 | 37,121 | 59,165 |
| Education | 30,596 | 29,215 | 50,177 | 219,591 | 187,417 | 268,338 |
| Religion | 12,263 | 12.685 | 17,134 | | · | |
| Health | 21,695 | 18,600 | 31,856 | 81,304 | 61,624 | 74,999 |
| Entertainment and recreation | 45,841 | 52,503 | 63,293 | 20,133 | 59,260 | 25,858 |
| Miscellaneous | 53,880 | 42,082 | 53,241 | 56,600 | 40,639 | 79,964 |
| Total other buildings . | 924,758 | 1,031,776 | 1,154,645 | 543,296 | 500,788 | 629,841 |
| Total buildings | 2,618,137 | 3,105,217 | 3,499,040 | 672,145 | 625,920 | 831,777 |

⁽a) Excludes the value of new houses completed in Darwin in December quarter 1974 for which details are not available. (b) Included with new dwellings.

BUILDING 225

Persons working on jobs carried out by builders of new buildings

The following table shows the number of contractors, sub-contractors and wage earners working on jobs carried out by builders of new buildings in each State and Territory at 30 June 1975. It also shows the numbers of these persons classified according to their main building occupations and the type of building on which they were working.

NUMBER OF PERSONS WORKING ON BUILDING JOBS, BY OCCUPATIONAL STATUS AND BY OCCUPATION 30 JUNE 1975

INCLUDING CONTRACTOR AND SUB-CONTRACTOR PRINCIPALS ACTUALLY WORKING ON JOBS BUT EXCLUDING PERSONS WORKING ON OWNER-BUILT HOUSES

| | | | _ | | | | | | | | | |
|--------------------------------------|---|-------|-----|------------------|-----------------|-----------------|----------------|-----------------|--------------|-----------|----------------|------------------|
| | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T.(a) | A.C.T. | Aust |
| Contractors . | | | | 4,382 | 3,253 | 1,999 | 1,044 | 759 | 387 | 20 | 367 | 12,211 33,308 |
| Sub-contractors . Wage earners . | | : | : | 9,068 30,868 | 9,651 16,118 | 5,240 18,722 | 3,706 9,268 | 2,963 12,959 | 829 4,250 | 93 517 | 1,758 4,652 | 97,354 |
| Carpenters . | | | | 13,671 | 10,271 | 10,034 | 3,704 | 4,028 | 2,041 | 201 | 1,659 | 45,609 |
| | | | • | 4,932 | 4,104 | 2,261 | 2,125 | 2,336 | 512 | 76 | 790 421 | 17,136 10,411 |
| Painters Electricians | | • | : | 2,906 2,987 | 2,281 1,924 | 1,730 1,443 | 1,155 976 | 1,480 1.354 | 403 329 | 35 45 | 330 | 9,388 |
| Plumbers | | : | : | 3,849 | 2,950 | 2,103 | 1,297 | 1.582 | 362 | 45 | 477 | 12,665 |
| Builders' labourer Other | | : | : | 7,106 8,867 | 2,540 4,952 | 3,329 5,061 | 1,914 2,847 | 2,108 3,793 | 1,021 798 | 141 87 | 1,031 2,069 | 19,190 28,474 |
| New dwellings . Other buildings(b | | | | 17,374 23,692 | 17,186 | 10,910 | 6,832 | 7,661 | 2,196 | 327 | 3,289 3,144 | 65,775 68,296 |
| Repairs and mai | | nance | (c) | 3,252 | 11,214 622 | 12,651 2,400 | 6,900 286 | 7,404 1,616 | 3,005 265 | 286 17 | 3,144 | 8,802 |
| Total . | | | | 44,318 | 29,022 | 25,961 | 14,018 | 16,681 | 5,466 | 630 | 6,777 | 142,873 |
| | _ | | | | | | | | | | | |

⁽a) Excludes Darwin. (b) Includes persons working on alterations and additions carried out by builders of new buildings. (c) Carried out by builders of new buildings.

The number of persons in each State and Territory working on jobs carried out by builders of new buildings at the end of June in recent years is shown in the following table.

NUMBER OF PERSONS WORKING ON BUILDING JOBS

INCLUDING CONTRACTOR AND SUB-CONTRACTOR PRINCIPALS ACTUALLY WORKING ON JOBS BUT EXCLUDING PERSONS WORKING ON OWNER-BUILT HOUSES

| 30 Jui | ne— | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--------|-----|---|--------|--------|--------|--------|--------|-------|--------|--------|---------|
| 1971 | | | 58.816 | 42,243 | 25,050 | 13.474 | 17,792 | 5.734 | 2.643 | 5,828 | 171.580 |
| 1972 | | | 60,376 | 41,106 | 26,171 | 14,509 | 15,497 | 4.964 | 1.875 | 5,581 | 170,079 |
| 1973 | | | 57,237 | 44,541 | 30,733 | 15,983 | 17,609 | 5,406 | 2,152 | 7,186 | 180,847 |
| 1974 | | | 55,044 | 45,630 | 30,111 | 15,753 | 19.302 | 5,223 | 2,044 | 6,950 | 180,057 |
| 1975 | | • | 44,318 | 29,022 | 25,961 | 14,018 | 16,681 | 5,466 | (a)630 | 6,777 | 142,873 |

(a) Excludes Darwin.

Average value and average size of private contract built houses

The following table shows the average commencement value, average value per square metre and average size in square metres of *private contract* built new houses commenced in each State Capital City Statistical Division. The average commencement value and average value per square metre are based on the final contract price of houses when complete (or estimates of this price) provided by contractors at the time of commencement of building work.

AVERAGE COMMENCEMENT VALUE, AVERAGE VALUE PER SQUARE METRE AND AVERAGE SIZE OF NEW PRIVATE CONTRACT BUILT HOUSES COMMENCED: CAPITAL CITY STATISTICAL DIVISIONS(a)

| Period | | | | | Sydney N | Aelbourne . | Brisbane | Adelaide | Perth | Hobart | Canberra | All capital cities |
|-------------------------------|---|---|---|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|
| | | | | | AVERAC | GE СОМ | MENCE | MENT VA | LUE (\$) | | | |
| 1972-73 1973-74 1974-75 | : | : | : | : | 16,651 19,770 23,858 | 14,056 17,743 22,035 | 13,244 16,480 19,805 | 13,752 17,020 21,623 | 12,944 15,381 18,270 | 15,647 18,708 24,316 | 19,370 23,860 27,551 | |
| | | | | A | VERAGE | E VALUI | E PER SO | QUARE M | IETRE (§ | 3) | | |
| 1972-73 1973-74 1974-75 | : | : | : | : | 114.5 124.4 155.8 | 101.9 117.2 150.2 | 109.9 126.6 150.4 | 105.3 119.2 153.8 | 98.4 102.9 125.5 | 114.5 127.8 171.9 | 122.0 144.4 189.1 | 106.5 119.5 150.3 |
| | | | | | AVER | AGE SI | ZE (SQU | ARE MET | RES) | | | |
| 1972-73 1973-74 1974-75 | : | : | : | : | 145 159 153 | 138 151 147 | 121 130 132 | 131 142 141 | 132 149 146 | 137 146 141 | 159 165 146 | 135 148 145 |

⁽a) Statistical Divisions, except for Canberra.

Intercensal estimates of stock of dwellings

The following table shows statistics of the estimated number of self-contained dwelling units at 30 June 1974 and 1975. For purposes of comparison the number of self-contained dwelling units at the Censuses of Population and Housing, 30 June 1966 and 1971 are also shown. Self-contained dwelling units include those private dwellings embraced by the 1971 Census categories 'private house', 'villa unit' and 'self-contained flat'. Dwellings which are embraced by the 1971 Census category 'other private dwellings' are excluded from the statistics. For further detail see page 208.

The estimated number of dwelling units for 1974 and 1975 represents the stock as ascertained at the Census of Population and Housing, 30 June 1971, plus the number of new dwelling units completed, minus an estimate of the net loss resulting from demolitions less conversions since the Census. Intercensal estimates of dwelling stock subsequent to 1971 will be subject to revision following the availability of more accurate benchmark information from the 1976 Census of Population and Housing.

GOVERNMENT ACTIVITIES IN THE HOUSING FIELD

INTERCENSAL ESTIMATES OF STOCK OF DWELLINGS

| | | Census 30 June 19 | 97 <i>1</i> | 30 June 1 (estimate) | | 30 June 1 (estimate) | | |
|---------------------------------------|----------------------------|----------------------|---|-------------------------|--|-------------------------|-------------------|---|
| State | Census, 30 June 1966 | | Annual rate of increase since Census 30 June 1966 | - | Annual increase since Census 30 June 1971 | | increase since | Annual rate of increase since Census 30 June 1971 |
| | No. | No. | per cent | No. | per cent | No. | per cent | per cent |
| Sydney Statistical Division | . 729,513 . 494,560 | 870,195 568,234 | 3.6 2.8 | 945,774 621,915 | 2.8 3.0 | 966,760 642,364 | 2.2 3.3 | 2.7 3.1 |
| Total New South Wales . | . 1,224,073 | 1,438,429 | 3.3 | 1,567,689 | 2.9 | 1,609,124 | 2.6 | 2.9 |
| Melbourne Statistical Division . | 629,288 | 765,956 | 4.0 | 839,742 | 3.1 | 863,559 | 2.8 | 3.0 |
| Remainder of State | . 281,550 | 311,143 | 2.1 | 328,517 | 1.8 | 337,136 | 2.6 | 2.0 |
| Total Victoria | 910,838 | 1,077,099 | 3.4 | 1,168,259 | 2.8 | 1,200,695 | 2.8 | 2.8 |
| Brisbane Statistical Division . | . 216,425 | 256,732 | 3.5 | 291,993 | 4.3 | 302,204 | 3.5 | 4.2 |
| Remainder of State | . 247,224 | 287,095 | 3.0 | 322,968 | 4.0 | 334,149 | 3.5 | 3.9 |
| Total Queensland | . 463,649 | 543,827 | 3.2 | 614,961 | 4.2 | 636,353 | 3.5 | 4.0 |
| Adelaide Statistical Division . | 223,529 | 261,253 | 3.1 | 289,953 | 3.5 | 298,776 | 3.0 | 3.4 |
| Remainder of State | 91,837 | 105,413 | 2.8 | 112,575 | 2.2 | 115,582 | 2.7 | 2.3 |
| Total South Australia . | . 315,366 | 366,666 | 3.0 | 402,528 | 3.2 | 414,358 | 2.9 | 3.1 |
| Perth Statistical Division | . 159.185 | 212,429 | 5.9 | 246,707 | 5.1 | 256,720 | 4.1 | 4.8 |
| Remainder of State | 72,526 | 90,224 | 4.4 | 99,445 | 3.3 | 103,044 | 3.6 | 3.4 |
| Total Western Australia . | 231,711 | 302,653 | 5.4 | 346,152 | 4.6 | 359,764 | 3.9 | 4.4 |
| Hobart Statistical Division . | 38,918 | 45,723 | 3.3 | 50,117 | 3.1 | 51,723 | 3.2 | 3.1 |
| Remainder of State | 65,501 | 73,872 | 2.4 | 78,524 | 2.1 | 80,197 | 2.1 | 2.1 |
| Total Tasmania | 104,419 | 119,595 | 2.8 | 128,641 | 2.4 | 131,920 | 2.5 | 2.5 |
| Darwin | 4,464 | 7.994 | 12.4 | 11,050 | 11.4 | n.a. | n.a. | n.a. |
| Remainder of Territory | 2,571 | 5,866 | 18.0 | 7,592 | 9.0 | 7,751 | 2.1 | 7.2 |
| Total Northern Territory . | 7,035 | 13,860 | 14.5 | 18,642 | 10.4 | n.a. | n.a. | n.a. |
| Canberra | . 23,745 | 38,654 | 10.3 | 50,153 | 9.1 | 55,369 | 10.4 | 9.3 |
| Remainder of Territory | 637 | 598 | -1.3 | 721 | 6.4 | 730 | 1.3 | 4.9 |
| Total Australian Capital Territor | 24,382 | 39,252 | 10.0 | 50,874 | 9.0 | 56,099 | 10.3 | 9.3 |
| Capital City Statistical Divisions(a) | 2,025,067 | 2,458,936 | 4.0 | 2,725,489 | 3.5 | 2,795,111 | 2.6 | 3.3 |
| D | 1,256,406 | 1,442,445 | 2.8 | 1,572,257 | 2.9 | 1,620,953 | 3.1 | 3.0 |
| Total Australia | 3,281,473 | 3,901,381 | 3.5 | 4 297,746 | 3.3 | 4,416,064 | 2.6 | 3.1 |

⁽a) Includes Canberra and Darwin.

Government activities in the housing field

Housing Agreements between Commonwealth and State Governments

Under successive Housing Agreements with the States the Commonwealth Government has made substantial long-term loans to the States for the provision of housing.

The 1945 Agreement. In November 1945 the Commonwealth Government entered into an Agreement with the Governments of the States whereby it would provide finance for housing projects and the State Governments would undertake the building of such projects. Between 1945-46 and 1955-56, under this Agreement, the Commonwealth Government advanced to the States a total of \$481,118,000.

Initially, dwellings constructed under the 1945 Agreement were only sold to tenants if the tenant was able to arrange payment of the full purchase price to the State immediately on sale. Subsequent amendments to the Agreement progressively eased conditions of sale. For information on the conditions of sale, etc., under the 1945 Agreement see Year Book No. 48, page 367.

The 1956 Agreement. In 1956 the Commonwealth and State Governments entered into a new Agreement under which added emphasis was placed on the construction of dwellings for private ownership. The Agreement provided that part of the loans advanced to each State was to be advanced to building societies and other approved institutions for lending to private home builders and purchasers. The balance of the amounts advanced to each State was used by the States for the erection of dwellings for either rental or sale. The Commonwealth Government was entitled to specify that up to five per cent of the moneys allocated for the erection of dwellings by the State be set aside for the erection of dwellings for serving members of the defence forces. For features of the 1956 Commonwealth and State Housing Agreement see Year Book No. 48, pages 367–8.

The 1961 Agreement. The period during which advances to the States could be made under the 1956 Agreement terminated on 30 June 1961. A new Agreement was entered into which extended for a further five years the period during which advances could be made and also amended the 1956 Agreement in certain respects concerning funds for the erection of dwellings for rental to servicemen and the rate of interest payable on Commonwealth Government advances.

The 1966 Agreement. An agreement was entered into which extended for a further five years the period during which advances could be made, and also amended the 1956–1961 Agreement in certain respects concerning the definition of 'member of the forces', the erection by the States of blocks of flats in metropolitan areas, the standard of dwellings to be built for rental to servicemen, and the provision of finance to home builders in rural areas.

For further information regarding the 1961 and 1966 Agreements see Year Book No. 53, pages 276-7, and Year Book No. 58, pages 208-9.

States Grants (Housing) Act 1971. The 1956-66 Housing Agreement expired on 30 June 1971 and was not further renewed. Instead, the Commonwealth and State Governments agreed upon a new arrangement under which the provisions contained in the Housing Agreement would be substantially continued for a period of five years up to 30 June 1976. In accordance with the Act financial assistance is being made available principally in the form of non-repayable interest-free grants for specific purposes.

For further information regarding the States Grants (Housing) Act 1971 see Year Book No. 59, page 210.

Housing Agreement (Servicemen)

An Agreement was concluded between the Commonwealth and State Governments to take effect for five years from 1 July 1971, to provide separately for the erection by the States of dwellings for allotment to servicemen and to carry out improvements to existing pre-1966 stock to upgrade the standard of accommodation. Both construction and improvements programs are negotiated annually for which the full capital cost is advanced by the Commonwealth Government as required by the States.

1973–1974 Housing Agreement

From 1 July 1973, advances are made by the Commonwealth Government to the States for welfare housing under this Agreement. This arrangement replaced that contained in the States Grants (Housing) Act from that date, with the exception that the Rental Assistance Grant of \$1.25 million will continue to be paid in respect of each financial year to and including 1975–76.

The rate of interest payable on advances made during the five-year term of the Agreement will be constant at the very low figure of 4 per cent for advances to the State Housing Authorities and 4.5 per cent for advances allocated to the States' Home Builders' Accounts for lending to eligible prospective home owners.

Sales of houses completed by the State Housing Authorities in the five years commencing 1 January 1974 are limited to 30 per cent of the total, except in the case of Tasmania where the limit is somewhat higher. The remainder are added to the stock of houses retained for rental to eligible persons and families. Eligibility for State Housing Authority accommodation is limited, in the case of a family, by a needs test whereby the income of the main breadwinner should not be greater than 85 per cent of average weekly earnings, plus \$2 for each child beyond the second. The needs test to determine eligibility for Home Builders' Account loans is slightly higher.

Operations under the 1973-1974 Housing Agreement and the Housing Agreement (Servicemen)

The following table shows the results of operations under the 1973-1974 Housing Agreement and the Housing Agreement (Servicemen) during 1974-75. Corresponding figures for 1972-73 appear in Year Book No. 60, page 227.

| 1973-74 HOUSING AGREEMENT: SUMMARY 1974-75 | 1973-74 HOUSING | AGREEMENT: | SUMMARY | 1974-75 |
|--|-----------------|------------|---------|---------|
|--|-----------------|------------|---------|---------|

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|---------------------------------------|------------|--------|--------|--------|--------|--------|---------|
| | HOUSING | FUNDS | \$'000 | | | | |
| Allocation of State loan moneys | for | | | | | | |
| housing | . 123,411 | 98,159 | 43,810 | 56,360 | 37,440 | 26,220 | 385,400 |
| State housing authorities(a) | . 74,910 | 61,800 | 31,340 | 33,560 | 20,570 | 18,220 | 240,400 |
| Home builders' account(a) | . 48,501 | 36,359 | 12,470 | 22,800 | 16,870 | 8,000 | 145,000 |
| Amounts drawn by institutions . | . 67,929 | 56,185 | 17,170 | 26,800 | 18,742 | 9,120 | 195,947 |
| Housing Agreement (Servicemen) advan- | ces 16,350 | 4,193 | 5,200 | 130 | 784 | 149 | 26,805 |
| N | UMBER OF | DWEL | LINGS | | | | |
| State housing program— | | | | | | | |
| Commenced | . 4,658 | 2,899 | 1,378 | 1,169 | 620 | 739 | 11,463 |
| Completed | . 2,977 | 2,746 | 1,359 | 862 | 723 | 704 | 9,371 |
| Under construction at 30 June 1975 | 4,989 | 2,476 | 545 | 1,651 | 435 | 465 | 10,561 |
| Home builders' account— | | | | | | | |
| Purchased— New | . 748 | 524 | 410 | 1.867 | 269 | 52 | 3.870 |
| Other | . 2,214 | 1,675 | 343 | 356 | | 461 | 5,049 |
| New construction— | . 2,217 | 1,075 | 343 | 330 | • • | 701 | 3,043 |
| Approved | . 3,943 | 3.374 | 1.053 | 3,031 | 1,172 | 705 | 13,278 |
| Commenced | . 1.361 | 972 | 343 | 650 | 856 | 213 | 4,395 |
| Completed | . 1,252 | 1,068 | 370 | 453 | 945 | 201 | 4,289 |
| Service housing— | . 1,232 | 1,000 | 3.0 | 433 | 743 | 201 | 7,207 |
| Agreed program | . 113 | | 303 | 50 | | | 466 |
| Completed(b) | . 376 | 131 | 23 | | 1 | 2 | 533 |
| Sold under | . 2.0 | | | • • • | • | - | |
| 1973-74 Housing agreement . | . 66 | 559 | 4 | 174 | 93 | 216 | 1,112 |
| Earlier agreements | . 1,217 | 1,524 | 1,300 | 22 | 515 | 99 | 4,677 |

⁽a) Between 20 and 30 per cent of total advances to a State in a financial year must be allocated to Home Builders' Accounts, the balance being allocated to State Housing Authorities.

(b) Also included in State housing program above and may include completions of houses for servicemen programmed in previous years.

Dwellings for Aged Pensioners Scheme

This Scheme is directed towards those in the community considered to be most in need of housing assistance. These are single eligible pensioners living alone in unsuitable private accommodation and paying too high a proportion of their pensions in rent. Most State housing authorities have for many years been building accommodation for aged persons, and Commonwealth Government assistance under this Scheme was introduced to supplement the States' efforts and to effect a more rapid reduction in the waiting lists with State housing authorities.

Under the States Grants (Dwellings for Aged Pensioners) Act 1969 an amount of \$25 million was made available to the States over a period of five years from 1969-70 to 1973-74 for construction by them of single self-contained accommodation for allocation, at rents they can afford to pay, to single eligible pensioners in receipt of supplementary assistance under the Social Services Act 1947 or the Repatriation Act 1920.

The Scheme was extended for a further period of 3 years from 1974-75 by the States Grants (Dwellings for Pensioners) Act 1974 which makes \$30 million available to the States over that period.

Building Schemes approved so far under the Acts are shown in the following table.

DWELLINGS FOR PENSIONERS SCHEME: APPROVALS

| | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|--------------------------|-------|-------|----------|--------|--------|-------|-------|------|------|--------|
| Number of | bui | lding | schemes | | | | | | | |
| approved- | | _ | | | | | | | | |
| 1971-72 | | | | 27 | 2 | 20 | 13 | 13 | 6 | 81 |
| 1972-73 | | | | 16 | 2 7 | 24 | 1 | 3 | 6 | 54 |
| 1973-74 | | | | •• | | 2 | ī | Ĭ | | 4 |
| 197475 | | | | 28 | 35 | 8 | 2 | 3 | | 76 |
| Number of schemes— | units | in | approved | | | | | | | |
| 1971-72 | | | | 636 | 192 | 154 | 190 | 108 | 35 | 1,315 |
| 1972-73 | • | : | | 248 | 96 | 169 | 8 | 27 | 18 | 566 |
| 1973-74 | • | | | | | 56 | 2 | 44 | | 102 |
| 1974-75 | • | • | | 667 | 394 | 97 | 28 | 68 | | 1,254 |
| | ٠. | ٠. | | 007 | 374 | 91 | 26 | 06 | • • | 1,234 |
| Estimated co schemes— | St | of | approved | | | | | | | |
| 1971-72 | | | \$'000 | 5,871 | 1,785 | 1,286 | 1,068 | 603 | 262 | 10,875 |
| 1972-73 | | | \$'000 | 1,894 | 773 | 1,444 | 50 | 152 | 108 | 4,421 |
| 1973-74 | | | \$'000 | •, | ••• | 665 | 13 | 284 | | 962 |
| 1974–75 | • | • | \$'000 | 8,395 | 5,988 | 1,489 | 353 | 625 | • • | 16,850 |

Defence service homes

The Defence Service Homes Act 1918, formerly the War Service Homes Act 1918, makes provision for assistance to be granted to persons who satisfy the eligibility conditions set out in the Act, to enable them to acquire on concessional terms a soundly constructed home that they would occupy as a residence.

Persons eligible for assistance under the Act include members of the Australian forces and nursing services enlisted or appointed for or employed on active service outside Australia or on a ship of war during the 1914–18 and 1939–45 Wars, persons who served in the warlike operations in Korea or Malaya or who have served on 'special service' as defined in the Repatriation (Special Overseas Service) Act 1962 and members of the Forces who serve on continuous full-time service and national servicemen whose periods of service ended not earlier than 7 December 1972 and meet certain prescribed conditions. The categories of eligible persons also include the widow and, in some circumstances, the widowed mother of an eligible person and persons domiciled in Australia and employed in certain sea-going service during the 1914–18 and 1939–45 Wars.

The maximum amount of loan or advance which may be granted under the *Defence Service Homes Act* 1918 is \$15,000. The maximum period of repayment is 45 years or, in the case of the widow or widowed mother of an Australian ex-serviceman, 50 years, but normally the repayment period is restricted to not more than 32 years.

The Australian Housing Corporation is responsible for the execution of the Defence Service Homes Act, subject to the directions of the Minister for Environment, Housing and Community Development.

Operations under the Defence Service Homes Act

The following tables give details of the operations under the Defence Service Homes Act in the year 1974-75 and from the inception of the scheme on 6 March 1919 to 30 June 1975. The earliest single year for which details are given in the tables is 1970-71; for earlier years see previous issues of the Year Book. The figures shown include operations in Papua New Guinea and Norfolk Island.

DEFENCE SERVICE HOMES ACT: OPERATIONS, AUSTRALIA, 1974-75 AND TO 30 JUNE 1975

| | | | 1974–75 | | | | |
|-----------|--|----------------------|-------------------|---|-----|-------|---------------------------|
| | g service— | lished from followir | Eligibility estab | | | | |
| Total | Regulars and National Servicemen serving on or after December 1972 | | 1914–18 War | | | | |
| 14,582 | 3,344 | 11,038 | 200 | No. | | | pplications received . |
| 9,959 | 2,070 | 7,771 | 118 | ,, | | | pplications approved. |
| 5,840 | 1,255 | 4,491 | 94 | ,, | | | omes purchased |
| | • | • | | • | to | given | omes built, or assistance |
| 1,244 | 190 | 1,051 | 3 | ,, | | | build them |
| 1,780 | 287 | 1,480 | 13 | ,, | | | ortgages discharged . |
| 8,864 | 1,732 | 7,022 | 110 | ,, | | | Total homes provided |
| 333 | 37 | 289 | 7 | ,, | | | ransfers and resales . |
| 130,000 | n.a. | n.a. | n.a. | \$'000° | . : | | otal capital expenditure |
| (b)91,640 | n.a. | n.a. | n.a. | • •• | | | otal receipts |

From inception to 30 June 1975 Eligibility established from following service— Regulars and National Servicemen serving on or after 7 December 1939-45 War 1914-18 War Total 1972 Korea, etc.(a) 602,533 Applications received No. 119,700 475,963 6,870 Applications approved . 58,942 352,793 290,466 3,385 2,182 179,536 Homes purchased 20,759 156,595 Homes built, or assistance to build them 24,168 206 98,725 74,351 45,185 Mortgages discharged 4,372 40,476 337 Total homes provided 49,299 323,446 271,422 2,725 Transfer and resales 9,691 65 26,637 16,881 Total capital expenditure . \$'000 1,798,076 n.a. n.a. n.a. Total receipts (c)1,371,474n.a. n.a. n.a.

⁽a) Korea, Singapore, Malaysia or Vietnam (Southern Zone) and Vietnamese waters. (b) All receipts for year less repayments under Widow's Relief Scheme. (c) Includes interest paid on expenditure on account of Widows' Relief Scheme.

DEFENCE SERVICE HOMES ACT: OPERATIONS, AUSTRALIA

| | | N | umber of | | | | | | | |
|---------|---|-----------------------|----------|---------------------------|-------------------|-------------------------|-------|--------------------------------------|-------------------|--|
| | - | | | Homes prov | ided | | m . 1 | | | |
| Year | | Applications received | | Homes purchased (a) | Homes built(b) | Mortgages discharged | Total | Total capital expendi- ture | Total receipts | |
| | | | | <u> </u> | | | | \$'000 | \$'000 | |
| 1970-71 | | | 10,174 | 5,031 | 1.040 | 1.231 | 7,302 | 61,000 | 78,483 | |
| 1971-72 | | | 11,465 | 5,025 | 830 | 1,266 | 7,121 | 65,000 | 83,496 | |
| 1972-73 | | | 11,687 | 4,990 | 919 | 1,467 | 7,376 | 74,326 | 97,622 | |
| 1973-74 | | | 15,494 | 6,223 | 715 | 1,356 | 8,294 | 102,000 | 101,467 | |
| 1974-75 | | | 14,582 | 5,840 | 1,244 | 1,780 | 8,864 | 130,000 | 91,640 | |

⁽a) Homes purchased with assistance under the Defence Service Homes Act.

DEFENCE SERVICE HOMES ACT: ADVANCES FOR HOUSING AND NUMBER

| | N.S.W. | | Qld | | | | | | |
|-----------------|---------|---------|----------|--------|----------|-------------|----------|--------|-----------|
| Period or date | (a) | Vic. | (b) | S.A. | W.A. | Tas. | N.T. | A.C.T. | Tota |
| | TC | TAL CAI | PITAL AD | VANCEI | DURIN | G YEAR | (\$'000) | | |
| 1970-71 | 23,052 | 16,850 | 9,721 | 4,288 | 4,675 | 1,530 | 92 | 792 | 61,000 |
| 1971-72 | 21,680 | 18,770 | 11,095 | 5,971 | 4,623 | 1,670 | 89 | 1,102 | 65,000 |
| 1972–73 | 23,858 | 21,497 | 13,443 | 6,137 | 5,986 | 2,050 | 71 | 1,284 | 74,326 |
| 1973–74 . | 30,171 | 27,149 | 17,400 | 10,418 | 9,500 | 3,200 | 162 | 4,000 | 102,000 |
| 1974–75 . | 37,925 | 32,250 | 22,785 | 11,867 | 16,400 | 3,220 | 133 | 5,420 | 130,000 |
| | | NU | MBER OF | SECUR | ITIES IN | FORCE | | | |
| At end of | | | | | | | | | |
| June— | | | | | | | | | |
| 1971 . | 65,028 | 55,116 | 25,446 | 16,621 | 17,954 | 4,245 | 61 | 1,236 | 185,70 |
| 1972 . | 64,731 | 55,338 | 25,683 | 16,710 | 17,769 | 4,295 | 69 | 1,318 | 185,913 |
| 1973 . | 63,590 | 54,933 | 25,497 | 16,618 | 17,597 | 4,341 | 68 | 1,399 | 184,043 |
| 1974 . | 62,699 | 54,379 | 25,527 | 16,603 | 17,576 | 4,397 | 73 | 1,671 | 182,925 |
| 1975 . | 63,035 | 54,363 | 26,181 | 16,879 | 18,095 | 4,484 | 67 | 2,022 | 185,126 |
| | | VALUE | OF ADVA | NCES O | UTSTANI | DING (\$'00 | 0) | | |
| At end of June— | | | | | | | | | |
| 1971 . | 352,150 | 271,295 | 120,595 | 77,469 | 87,091 | 20,848 | (c) | (d) | 929,448 |
| 1972 . | 354,389 | 276,348 | 125,180 | 79,367 | 86,641 | 21,466 | (c) | (d) | 943,39 |
| 1973 . | 354,216 | 280,040 | 128,229 | 80,762 | 86,843 | 22,263 | (c) | (d) | 952,353 |
| 1974 . | 363,071 | 288,556 | 135,961 | 84,624 | 90,336 | 23,997 | (c) | (d) | 986,54 |
| 1975 . | 382,562 | 302,077 | 150,560 | 91,341 | 101,351 | 25,901 | (c) | (d) | 1,053,792 |
| | | N | UMBER (| ог ном | ES PROV | IDED | | | |
| 1970–71 . | 2,785 | 1,989 | 1,180 | 537 | 512 | 191 | 11 | 97 | 7,30 |
| 1971-72 . | 2,330 | 2,078 | 1,248 | 664 | 463 | 202 | 10 | 126 | 7,122 |
| 1972-73 . | 2,302 | 2,173 | 1,298 | 648 | 597 | 218 | 9 | 131 | 7,37 |
| 1973-74 *. | 2,449 | 2,245 | 1,434 | 757 | 783 | 280 | 14 | 332 | 8,29 |
| 1974-75 | 2 402 | 2 172 | 1 544 | 836 | 1 245 | 251 | 10 | 404 | 8 86 |

836

1,245

2,402

2,172

1974-75

1,544

251

10

404

8,864

⁽b) Or assistance given to build a home.

⁽a) Includes Norfolk Island. in New South Wales.

⁽b) Includes Papua New Guinea.

⁽c) Included in South Australia.

⁽d) Included

In addition to the homes provided under the Defence Service Homes Act and shown above, 3,299 homes, which had been provided originally under the Housing Agreements with the States, have been taken over in accordance with those Agreements.

Home Savings Grant Scheme

The administration of the Homes Savings Grant Scheme is a function of the Department of Environment, Housing and Community Development. The purpose of the Scheme is to assist young married persons, and young widowed or divorced persons with dependent children, to purchase or build their own homes. A further objective is to increase the proportion of total savings available for housing purposes by encouraging young people to save with those institutions which provide the the bulk of housing finance. The Scheme is governed by the *Homes Savings Grant Act* 1964. The Act authorises the payment of grants from the National Welfare Fund.

The Scheme provides for the payment of grants of \$1 for every \$3 saved by eligible persons under 36 years of age for the first home they own after marriage. The savings must be made over a period of at least three years and held in an approved form. The maximum grant to a married couple, or to husband or wife if only one is eligible, or to a widowed or divorced person, is \$750 on savings of \$2,250 or more. Smaller grants down to a minimum of \$10 are payable on lesser amounts saved. To be eligible for the grant, a person must be married, or widowed or divorced with one or more dependent children, and must have—or must be married to a person who has—entered into a contract to buy a home or have one built, or begun to build a home as an owner-builder. The person must be under 36 years of age at the time of marriage and at the date of the contract to buy or build or the date building began; must have either been an Australian citizen or lived in Australia during the three years immediately preceding that date; and must also have saved in Australia in an approved form throughout that period. Those three years are known as the applicant's 'savings years'. The grant is payable in respect of existing homes and homes being built. Flats and home-units may also be eligible provided separate title can be obtained. The value of the home, including the land, the house itself and any other improvements, must not exceed \$22,500. Most homes are eligible, the main exception being homes purchased from State housing authorities which have been built with moneys advanced by the Commonwealth Government under the Housing Agreements at concessional rates of interest or where the terms of purchase have been subsidised by reason of financial assistance to the State under the States Grants (Housing) Act 1971.

The main forms of savings acceptable under the Scheme are accounts with savings banks and fixed deposits with trading banks (but not cheque accounts), and deposits with or shares in registered building or co-operative housing societies. Savings spent in connection with the purchase or construction of the home prior to the date of the contract to buy or build the home, or the date building began, are also acceptable. Savings held with a credit union are acceptable provided the particular credit union has become an approved credit union for the purposes of the Scheme. The amount of savings that qualify for a grant is the sum of the amounts by which the acceptable savings have increased each year, up to a limit of \$900 in any one savings year, added to the acceptable savings held at the start of the three-year savings period.

Full details of the current Scheme are set out in the official pamphlet A Grant for Your Home available from banks, building and housing societies, post offices, and offices of the Department of Environment, Housing and Community Development throughout Australia. Additional statistical information is contained in the Annual Reports by the Secretary, Department of Housing and Construction, on the Homes Savings Grant Act 1964–1975, which are available from the Australian Government Publishing Service Bookshops.

The Government announced on 31 March 1976 proposals for a new Home Savings Grant Scheme to apply to persons who contract to buy or build their first home on or after 1 January 1977. Under the new scheme, all persons buying or building their first home may qualify for a grant regardless of age, marital status or residence in Australia, provided that, in the case of newcomers to Australia, they have a right of permanent residence. The maximum grant payable on the basis of \$1 for \$3 savings will be \$2,000 where acceptable savings have been held for not less than three complete years immediately before the date of the contract to buy or build the home. Maximum grants of \$667 and \$1,333 will be payable where acceptable savings have been held for not less than one and two completed years respectively. There will be no limit to the value of the home that may qualify under the new scheme.

Other changes, that will also apply to persons qualifying under the present scheme who contract to buy or build their first matrimonial home on or after 1 April 1976, are the removal of the restrictions on persons buying homes subsidised by the Commonwealth, persons building on a rural property to which they do not hold title, persons whose applications are lodged later than 12 months after the contract date, and persons whose savings are held in credit unions that have not been approved under the scheme.

Operations under the Home Savings Grant Scheme

Particulars of applications received and approved during 1974-75 and during the period from 20 July 1964, when the Scheme commenced to operate, to 30 June 1975 are set out below.

HOME SAVINGS GRANT SCHEME: OPERATIONS, 1974-75

| | | N.S.W. | Vic. | Qld | S.A.(a) | W.A. | Tas. | A.C.T. (b) | Aust. |
|---|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------|-----------------------|-----------------------------------|
| Applications received Applications approved(c) Grants approved Average grant approved | . No. . \$'000 . \$ | 4,559 4,531 2,881 636 | 6,165 5,814 3,770 648 | 3,692 3,796 2,409 635 | 2,780 2,718 1,684 620 | 2,315 2,338 1,440 616 | 1,089 1,062 628 591 | 24 55 32 532 | 20,624 20,314 12,845 632 |
| Expenditure from National Welfare Fund | . \$'000 | 2,949 | 3,954 | 2,419 | 1,689 | 1,493 | 626 | 33 | 13,163 |

⁽a) Includes Northern Territory. (b) Includes Queanbeyan, N.S.W. (c) Includes applications received on or before 30 June 1974 and approved after that date.

HOME SAVINGS GRANT SCHEME: OPERATIONS, 1970-71 TO 1974-75 AND TO 30 JUNE 1975

| Year | | | | | | Applications received | Applications approved | Grants approved | Average grant approved | Expenditure from National Welfare Fund |
|--------|-------|-------|--------|--------|------|--------------------------|--------------------------|--------------------|------------------------------|---|
| | | | | | | | | \$'000 | 8 | \$'000 |
| 1970-7 | 1 | | | | | 39,796 | 35,778 | 15,763 | 441 | 15,200 |
| 1971-7 | 2 | | | | | 41,735 | 38,674 | 16,970 | 439 | 17,397 |
| 1972-7 | 3 | | | | | 47,260 | 40,847 | 21,343 | 523 | 21,287 |
| 1973-7 | 4 | | | | | 41,609 | 40,278 | 24,814 | 616 | 24,658 |
| 1974–7 | 5 | | | | | 20,624 | 20,314 | 12,845 | 623 | 13,163 |
| , | Total | l fro | m 20 . | July 1 | 1964 | 388,753 | 350,361 | 167,093 | 477 | 166,936 |

Homes qualifying for grants

The following two tables contain particulars of homes in respect of which grants were approved during 1974–75. As grants were payable only to persons under 36 years of age and in respect of homes costing no more than a prescribed amount, these statistics should not be regarded as being applicable to home owners in general.

HOME SAVINGS GRANT APPLICATIONS APPROVED(a): MANNER OF ACQUISITION TOTAL VALUE, AND AVERAGE VALUE OF HOMES (INCLUDING LAND), 1974-75

| | N.S.W. | Vic. | Qld | S.A.(b) | W.A. | Tas. | A.C.T.(c) | Aust. |
|---|-------------------------|-----------------------|---------------------|------------------------|-----------------------|--------------------|-------------------|-------------------------|
| Purchase of house(d)— Number of approvals Total value(e) . \$'000 | 2,703 | 3,807 | 2,516 | 1,840 | 1,316 | 832 | 23 | 13,037 |
| | 47,999 | 69,499 | 42,949 | 32,986 | 21,593 | 12,416 | 470 | 227,911 |
| Average value(e) . \$ | 17,757 | 18,256 | 17,070 | 17,927 | 16,408 | 14,923 | 20,451 | 17,482 |
| Purchase of flat or home unit— Number of approvals . Total value(e) \$'000 Average value(e) . \$ | 600 12,056 20,093 | 73 1,370 18,769 | 42 797 18,966 | 170 3,029 17,819 | 86 1,399 16,273 | 8 144 17,975 | 3 58 19,283 | 982 18,853 19,198 |
| Home built under contract— Number of approvals Total value(f) . \$'000 Average value(f) . \$ | 1,051 | 1,643 | 998 | 655 | 900 | 138 | 28 | 5,413 |
| | 19,995 | 31,915 | 18,702 | 12,683 | 16,866 | 2,581 | 575 | 103,316 |
| | 19,024 | 19,425 | 18,740 | 19,364 | 18,739 | 18,702 | 20,533 | 19,087 |
| Owner-built home— Number of approvals Total value(g) . \$'000 Average value(g) . \$ | 177 | 291 | 240 | 53 | 36 | 84 | 1 | 882 |
| | 2,775 | 5,420 | 3,849 | 912 | 637 | 1,477 | 21 | 15,090 |
| | 15,676 | 18,625 | 16,036 | 17,215 | 17,683 | 17,583 | 20,909 | 17,109 |
| All bomes— Number of approvals | 4,531 | 5,814 | 3,796 | 2,718 | 2,338 | 1,062 | 55 | 20,314 |
| | 82,823 | 108,204 | 66,296 | 49,611 | 40,495 | 16,617 | 1,124 | 365,170 |
| | 18,279 | 18,611 | 17,465 | 18,253 | 17,320 | 15,647 | 20,437 | 17,976 |

⁽a) Includes applications received on or before 30 June 1974 and approved after that date.

(b) Includes Northern Territory. (c) Includes Queanbeyan, N.S.W. (d) Includes previously occupied houses. (e) Usually based on the purchase price. (f) Usually based on the cost of the land and the assessed value of the dwelling. (g) Usually based on the cost of the land and the assessed value of the dwelling.

HOME SAVINGS GRANT APPLICATIONS APPROVED: METHOD OF FINANCING HOMES AND AVERAGE MORTGAGE LOANS, 1974-75

| | | | Method of | financing hon | | | | |
|---------------------------------|--|--|-----------|---------------|--------|---|---------------------------------------|-------|
| State or Territory | | With first mortgage loan and without With first second and second mortgage mortgage loan loans Others(a) Total | | | | Average first mortgage loan(b) | Average second morigage loan | |
| | | | number | number | number | number | \$ | \$ |
| New South Wales | | | 3,868 | 520 | 143 | 4,531 | 13,080 | 3,543 |
| Victoria | | | 5,041 | 405 | 368 | 5,814 | 12,941 | 3,513 |
| Queensland | | | 3,439 | 173 | 184 | 3,796 | 12,774 | 3,277 |
| South Australia(c) | | | 1,977 | 630 | 111 | 2,718 | 12,778 | 3,208 |
| Western Australia | | | 2,051 | 186 | 101 | 2,338 | 12,505 | 3,871 |
| Tasmania | | | 941 | 58 | 63 | 1,062 | 11,978 | 2,703 |
| Australian Capital Territory(d) | | | 15 | 39 | 1 | 55 | 11,988 | 5,685 |
| Australia . | | | 17,332 | 2,011 | 971 | 20,314 | 12,817 | 3,457 |

⁽a) Homes financed without mortgage loan. Includes homes financed from the applicants' own resources only, with personal or unsecured loans, purchased under a terms contract of sale, etc. (b) Includes homes financed with and without second mortgage loans. (c) Includes Northern Territory. (d) Includes Queanbeyan, N.S.W.

Housing loan interest deduction scheme

The housing loan interest deduction scheme, which commenced operation from 1974–75, provides for the allowance of an income tax deduction for housing loan interest payments. The amount of the deduction that may be allowed to a taxpayer in respect of his or her housing loan interest payments is governed by a 'net income' test. Under this test a person with a net income of \$4,000 or less in a year of income is allowed the whole of his or her annual housing loan interest payments as a concessional deduction. A person with a net income greater than \$4,000 in a year of income is allowed a deduction for the amount of his or her annual housing loan interest payments, reduced by 1 per cent for each \$100 of the excess of the net income over \$4,000 (e.g., a net income of \$6,000 means 80 per cent of interest is deductible). No deduction is available to a person whose net income for the year is \$14,000 or more.

'Net income' for purposes of the scheme means gross income (including exempt income but not child endowment or payments received by way of domicilary nursing care benefits) less revenue expenses incurred in the course of earning the income. Expenses of a capital nature, private or domestic expenditures that are rebatable in the income tax return (e.g., medical expenses, education expenses, life insurance premiums, contributions to superannuation funds) and the concessional rebates for dependants, are not taken into account in calculating 'net income'.

In measuring the deduction, the net income of the taxpayer is combined with the net income of his or her spouse. The net income of other members of the family is not taken into account.

Arrangements under the pay-as-you-earn (PAYE) income tax scheme enable allowance for deductible housing loan interest payments to be made in tax instalments deducted from salary or wages of employees. Further details of the PAYE arrangements are set out in the notes provided on the housing loan interest declaration form available at Taxation Offices and Post Offices.

Under the housing loan interest deduction scheme as amended from 1976-77, housing loan interest is available as a taxation deduction only to borrowers who are making repayments in respect of the first home they have purchased and is restricted to interest that accrues during the first five years of use of that home.

Housing loans insurance scheme

The Housing Loans Insurance Corporation was established by the *Housing Loans Insurance Act* 1965 to insure approved lenders against losses arising from the making of housing loans. The main purpose of the activities of the Corporation is to assist people to borrow, as a single loan, the money they need and can afford to repay to obtain a home suited to their requirements.

The Corporation will insure loans of up to \$40,000. The maximum loan to valuation ratio is 95 per cent for loans for the purchase or construction of homes. A once-and-for-all premium of 1.4 per cent of the amount of the loan is charged by the Corporation for the insurance of loans representing 94 per cent or more of valuation. The premium rate falls progressively to a minimum of 0.25 per cent on loans of less than 76 per cent of valuation. The premium normally is paid by the borrower, but lenders may agree to add it to the amount of the loan for repayment by the borrower over the duration of the loan. The maximum period for repayment of a loan on the purchase or construction of a home is forty years.

The Corporation insures loans for purposes other than the purchase or construction of a dwelling. These include alterations, extensions or improvements to a dwelling. An insured loan may be made only by an approved lender. Approved lenders are appointed by the Corporation from within approved classes of lenders specified by the Minister for Environment, Housing and Community Development. The approved classes include banks, permanent and terminating building societies and most other sources of housing finance. The Corporation commenced its operations in November 1965. By the end of December 1975, 197,199 loans to a value of \$2,623.7 million had been insured.

State housing authorities

The following paragraphs describe briefly the organisation of the various State housing authorities and their activities in the fields of home construction and provision of homes on a rental basis (see pages 239-42 for their financial advances to persons wishing to purchase or build a home). For summarised figures of total government construction of houses and other dwellings, see pages 218, and 221. For a fuller description of the activities of State housing authorities and their financial advances to home purchasers or builders see Year Book No. 53, pages 283-91.

New South Wales—The Housing Commission of New South Wales. The Housing Commission of New South Wales was constituted in 1942, its principal function being the provision of low-cost housing to persons in the lower or moderate income groups.

Advances from the Commonwealth Government have provided most of the Housing Commission's capital funds and by 30 June 1975 had aggregated \$739,067,000 of which \$85,979,000 had been repaid. Other net funds of the Commission at 30 June 1975 comprised repayable advances from the State, \$102,914,000; public loans raised by the Commission, \$10,657,000; grants from the Commonwealth Government, \$13,750,000; grants from the State, \$23,383,000 (including \$9,275,000 from consolidated revenue and \$14,108,000 from taxes on poker machines); provision for maintenance of properties, \$5,281,000; and accumulated surplus, \$71,640,000. In addition, the Commission owed \$37,353,000 to creditors, mainly for purchase, of land and work-in-progress. These funds were represented by fixed assets, \$903,037,000 (including \$220,896,000 debtors for purchase of homes) and current assets, \$15,029,000. In 1974–75, the Commission's income was \$75,882,000 (including rent \$49,401,000 and interest \$14,302,000), expenditure \$65,004,000 (interest, \$27,932,000), and capital expenditure \$138,866,000.

Most of the permanent dwellings provided by the Commission have been erected under the Federal-State Housing Agreements. In 1974-75, 3,752 houses and flats, valued at \$46,127,918, were completed for the Housing Commission by private builders on contract to the Commission.

Upon request by other State Departments the Housing Commission will erect houses for employees of those Departments, the Departments providing the necessary lands and funds. In addition, the Commission erects (with State funds) dwellings for employees of industries connected with decentralisation and development. Specially designed units are erected by the Housing Commission to provide dwellings for elderly persons at rentals within their means. The rents of these units, as at 30 June 1975, are approximately \$7.90 a week for elderly single persons and \$11.70 a week for elderly couples, and 8,447 units had been completed at 30 June 1975.

Victoria—Ministry of Housing. The Ministry of Housing co-ordinates all Government housing activities in Victoria. The authorities within the Ministry are the Housing Commission, Registry of Co-operative Housing Societies and Co-operative Societies, Home Finance Trust (see page 240), Decentralised Industry Housing Authority and Teacher Housing Authority.

Housing Commission, Victoria. The Housing Commission, Victoria, was set up in 1938 as a result of the Housing Act of the previous year. The main objects of the Commission as now laid down are the improvement of existing housing conditions; the provision of suitable rental housing for persons displaced by slum reclamation or living under unsatisfactory conditions, and for persons of limited means; the sale of houses to eligible persons and the making of advances to such persons to enable them to own their homes; the development of land for housing and related purposes; the giving of advice to the public with respect to finance for the purchase or construction of homes;

the preparation and implementation of urban renewal proposals; and, since December 1974, the performance of the functions of the former Ministry of Aboriginal Affairs relating to aboriginal housing. Since the signing of the 1945 Housing Agreement the construction of dwellings has been financed by the Commonwealth Government and Commission Funds.

At 30 June 1975, the Housing Commission had completed 1,328 dwelling units under the State Housing Scheme and 78,542 dwelling units under Federal-State Agreements, Works and Services Loans, Service Personnel Agreements (Housing) and Grants for Aged Person Housing. Specially designed dwelling units are erected by the Commission to provide dwellings for elderly persons at rentals within their means. To 30 June 1975, 6,326 such units had been completed. These are also included in the figures for total constructions above.

Queensland—The Queensland Housing Commission. The Queensland Housing Commission was established in 1945 to assist in meeting the housing shortage. In addition, the Commission was empowered to build houses itself, either for sale or for rental.

The Housing Commission finances its operations through a Treasury Trust Fund—the Queensland Housing Commission Fund. A second fund, the Commonwealth-State Housing Fund, was closed on 30 June 1973. Total disbursements by the Commission for the year 1974–75 amounted to \$75,799,347.

During 1974-75 the Commission provided 2,283 dwelling units, bringing the total number under all schemes since the revival of housing construction in 1944-45 to 49,045. Of this number 29,555 houses, or 60.3 per cent, were for home ownership, and 19,490 or 39.7 per cent, were for rental.

In the field of rental housing the Commission administers and acts as the constructing authority under the Federal-State Housing Agreements and the States Grants (Dwellings for Pensioners) Act 1974 and States Grants (Housing) Act 1971–1974. Operating under the provisions of the State Housing Act 1945–1974, the Commission, through its scheme of workers' dwellings, makes advances for the construction of dwellings to eligible persons who own a suitable building site. The number of workers' dwellings completed during 1974–75 amounted to 101, making a total of 31,420 completions since the inception of the scheme. The Commission also has power to make advances, secured by mortgage, to firms for housing of employees. The Commission has power to sell houses under contract of sale conditions. Contract of sale agreements were made to purchase 1,305 of the Commission's houses during 1974–75.

South Australia—The South Australian Housing Trust. The South Australian Housing Trust operates under the South Australian Housing Trust Act, 1936–1973 and the Housing Improvements Act, 1940–1973 for the purpose of providing houses for families of limited means. Houses are built for both rental and sale, and to 30 June 1975, 77,053 had been completed throughout the State, of which some 40,880 had been built and sold under various schemes. At 30 June 1975 the rents of five-roomed (i.e. three bedrooms) double-unit houses ranged from \$12.50 a week for houses of an older type to \$16.50 a week for houses then being completed. Single units rent ranged between \$20.50 and \$30.00. Two-and three-storey groups of flats with weekly rentals ranging from \$15.00 to \$24.00 and \$14.00 to \$26.00 per flat respectively have been built in the Metropolitan Area; of these 1,698 flats are situated in the Metropolitan Area and 360 at Elizabeth. In 1953 the Trust began building cottage or pensioner flats for elderly people. At 30 June 1975 it had built 1,657 cottage flats from its own resources and an additional 867 for charitable and non-profit organisations.

During 1962-63 the Trust commenced construction of rental-purchase houses. The aim of this scheme is to provide less expensive houses for the lower income groups. It is expected that such houses will, to some extent, replace double-unit type rental houses. The Trust has also undertaken the construction of houses for various State Government Departments which need to house staff in country districts. In order to assist primary producers the Trust will erect houses on the applicant's own land for his own use or that of his employees, either using local materials or transporting pre-fabricated houses to the site.

The Trust is also responsible for administering all houses financed through the State Aboriginal Advancement Scheme in accordance with policies formulated by the Aboriginal Housing Policy Committee. The Committee comprises 6 Aboriginal members, and a representative from the Department for Community Welfare, the Department of Aboriginal Affairs and the Trust. The Trust provides all the normal housing management services for the houses; at the end of June 1975 a total of 514 had been built or purchased in South Australia.

Western Australia—State Housing Commission of Western Australia. The activities of the State Housing Commission extend throughout the whole State. In addition to construction of a variety of dwellings for its own rental and purchase program as determined under the State Housing Act, the

Federal State Housing Agreements prior to 30 June 1971, the States Grants (Housing) Act 1971 and the 1973-1974 Housing Agreement, its activities include:

Construction of houses for other Government Departments (both Commonwealth and State Government, and semi- and local government authorities) in Western Australia,

Construction and maintenance of houses for the Government Employees' Housing Authority. At 30 June 1975, the Commission had completed under all schemes since 30 June 1944, a total of 61,783 units of accommodation throughout the State (including 12,046 units completed under the Defence Services Homes Act 1918).

During the twelve months ended 30 June 1975, 1,150 units of accommodation were completed: metropolitan area, 757; country, 224; and north of 26th parallel, 169; and a further 682 units were under construction.

Building Societies are a major source of housing finance in Western Australia. At 30 June 1975, it was estimated that the assets of all societies were about \$719 million. Currently, 11 permanent and 498 terminating societies are operating. As a condition of eligibility for assistance under the *Housing Agreement Act* 1973, the State is required to allocate not less than 20 per cent nor more than 30 per cent of its housing authority new borrowings for advances through terminating building societies.

Under the Housing Loans Guarantee Act 1957-1972, the guarantees provided to financial institutions enable loans to be made to lending institutions with full security. The Act enables building societies and other approved bodies to make high ratio advances to families of low and moderate means without additional charge. The interest rate charged to the borrower may not exceed 10.75 per cent reducible. Loans may be made up to 95 per cent of the value of the house and land or a specified sum, whichever is the lesser amount. In respect of the metropolitan region, the maximum loan permitted is \$17,000 and outside the metropolitan region south of the 26th parallel, \$16,000. For a new house situated north of the 26th parallel and in the North West or Eastern Land Divisions, the maximum loan is \$35,000 and in the Kimberley Land Division \$36,000.

Tasmania—The Housing Department. The Housing Department was established in 1953 and administers that portion of the Homes Act 1935 relating to the acquisition and development of land for housing purposes and the erection of homes for rental and sale by purchase contract, and the Casual Worker's and Unemployed Persons' Homes Act 1936.

During 1974-75, 751 dwellings were completed, comprising mainly brick and concrete block veneer construction. Construction since 1944 has totalled 15,187 dwelling units, comprising 14,028 detached and semi-detached units (9,857 of timber), 637 elderly persons' flatettes, 206 multi-unit flats and 316 higher density villa units.

Flats, maisonettes, villa units, and elderly persons' homes are for rental only. Single unit dwellings may be allotted on either a purchase contract or rental basis. Weekly rental of a new typical standard home approximated \$29.00 in the June quarter 1975. In certain necessitous cases rental rebates are allowed. Under current policy, a married couple occupying an elderly persons' unit and whose only income is the age pension, pay \$10.00, while a single person solely dependent on the pension pays \$7 a week.

Most purchase contract allotments are made on a no-deposit basis with repayments over a maximum period of fifty-three years. The sale price of a 3 bedroom standard unit was approximately \$20,000 (including land) in June 1975.

Housing schemes in Australian Territories

Northern Territory. In 1946 control of all government-owned residences in the Territory (excluding those belonging to the Defence Services or Commonwealth Railways, or attached to post offices) was vested in the Administration. The Northern Territory Housing Commission was established in 1959 and operates under authority of the Housing Ordinance 1959–1971. The Commission became autonomous on 1 October 1969 and provides rental housing for persons of limited means who are not adequately housed and who are not officers of either the Commonwealth or the Northern Territory Public Service. To 30 June 1973 the Commission had completed a total of 3,553 houses and flats; 2,453 of these are in Darwin (including 490 flats), 691 in Alice Springs (including 191 flats); 182 in Katherine (including 29 flats); 206 in Tennant Creek (including 15 flats); 9 houses in Pine Creek; 8 houses in Adelaide River and 2 each in Elliot and Mataranka. In addition, 49 houses and 8 flats were taken over from the Department of Defence in Alice Springs; 2 houses in Katherine and 1 house in Tennant Creek were acquired from the Department of the Northern Territory; and 1 house in Darwin was purchased privately. A further 1 house and 10 flats were under construction.

Australian Capital Territory. The Commonwealth Government provides houses and flats for rental to persons on low incomes who are employed in the Australian Capital Territory. At 30 June 1975 the Department of the Capital Territory controlled 8,000 houses and 2,688 flats for rental purposes. Government rental houses may be purchased by eligible tenants.

Summary of rental activities of government authorities

The first of the following two tables shows the revenue from rental for dwellings under control of government housing authorities each year from 1970-71 to 1974-75, and the second, the number of tenants paying rent for dwellings under control of government housing authorities at the end of each year 1970-71 to 1974-75.

GOVERNMENT HOUSING AUTHORITIES: REVENUE FROM RENTALS (\$'000)

| Year | N.S.W. | Vic. | Qld(a) | S.A.(b) | W.A. | Tas. | <i>N.T.</i> | A.C.T. | Aust. |
|---------|--------|--------|--------|---------|--------|-------|-------------|--------|---------|
| 1970-71 | 29,851 | 20,618 | 9,286 | 14,300 | 10.076 | 2,152 | (c)3,387 | 5,300 | 94.970 |
| 1971-72 | 32,813 | 22,274 | 10,405 | 15,700 | 11,378 | 2,315 | 3,366 | 5,744 | 103,995 |
| 1972-73 | 36,726 | 22,778 | 11,407 | 17,150 | 12,209 | 2,578 | 4,335 | 5.598 | 112,781 |
| 1973-74 | 42,378 | 26,820 | 12,104 | 18,730 | 12,791 | 3,404 | n.a. | 5,555 | 121,782 |
| 1974-75 | 49,401 | 31,049 | 13,959 | 22,271 | 15,810 | 4,281 | n.a. | 7,479 | 144,250 |

 ⁽a) Excludes rentals in respect of tenanted temporary dwellings.
 (b) Excludes rentals in respect of temporary and emergency dwellings.
 (c) Includes undercharges in respect of 1969-70.

GOVERNMENT HOUSING AUTHORITIES: NUMBER OF TENANTS PAYING RENT

| Year | N.S.W. | Vic. | Qld(a) | S.A.(b) | W.A. | Tas.(c) | N.T. | 4.C.T.(c) | Aust. |
|---------|--------|--------|--------|---------|--------|---------|-------|-----------|---------|
| 1970-71 | 63,983 | 38,237 | 17.038 | 33,378 | 22,056 | 3,951 | 3,710 | 10,567 | 192,920 |
| 1971-72 | 66,740 | 39,694 | 17.670 | 34,382 | 23,236 | 4,158 | 4.261 | 10.048 | 200,189 |
| 1972-73 | 69,178 | 40,335 | 18,463 | 35,155 | 24,055 | 4,560 | 4,826 | 9,651 | 206,223 |
| 1973-74 | 70,510 | 39,996 | 18,183 | 35,592 | 24,304 | 4,841 | n.a. | 9,506 | 202,932 |
| 197475 | 73,021 | 40,726 | 18,947 | 36,752 | 25,767 | 5,350 | n.a. | 10,481 | 211,044 |

⁽a) Excludes tenanted temporary dwellings. (b) Excludes temporary and emergency dwellings. (c) Number of occupied dwellings at 30 June.

Advances to home purchasers

Many prospective home purchasers wish to borrow for the purpose of constructing or purchasing their own homes. Usually the loan is covered by way of mortgage of the home to be constructed or bought. Such loans are provided from a number of private sources and from agencies owned or guaranteed by the Commonwealth or State Governments. The information in this section concerns the direct loans made to home purchasers by the more important institutional lenders. Loans to institutions which in turn lend moneys to home purchasers and loans to contract builders, etc. are excluded as far as possible. The loans may be for the construction of new dwellings, the purchase of existing dwellings, for additions, renovations, etc., as first or subsequent mortgages, overdrafts and so on. While figures of all loans to home purchasers are not available, the institutions mentioned account for a significant proportion of total loans. Details of the terms and conditions of lending are given, together with available information on the number and value of loans made.

State and Territory authorities and agencies

New South Wales

Rural Bank of New South Wales—Sale of Homes Agency. A Sale of Homes Agency was established in 1954 to arrange for the sale on terms of houses erected by the Housing Commission of New South Wales. The Agency's operations began with the sale to selected purchasers of 100 houses made available by the Commission during 1954–55 and 1955–56. The sales were made on the basis of 10 per cent deposit and repayment of the balance over a maximum period of forty years, with interest at 4.5 per cent per annum. Total advances under that scheme amounted to \$646,648; at 30 June 1975 the advances outstanding amounted to \$189,654 in respect of 48 houses.

Since 1956 the Sale of Homes Agency has acted as the agent of the Housing Commission in arranging the sale on terms of houses erected under the Federal-State Housing Agreements. The terms of sale provide for a minimum deposit of \$200 and repayment of the balance over a maximum period of forty-five years, with interest rates, since the inception of the scheme, ranging from 4.25 to 6.75 per cent per annum. Particulars of the advances made by the Agency in connection with the sale of houses erected under the 1956, 1961 and 1966 Agreements and the States Grants (Housing) Act of 1971 are given in the following table.

RURAL BANK OF NEW SOUTH WALES—SALE OF HOMES AGENCY ADVANCES FOR HOMES SOLD UNDER THE 1956, 1961 AND 1966 FEDERAL-STATE HOUSING AGREEMENTS AND THE STATES GRANTS (HOUSING) ACT OF 1971

| | Advances out: at end of year | _ | Total advance to end of year | ing year | Advances dur | | |
|---------|---------------------------------|---------|---------------------------------|----------|------------------|--|---------|
| Amount | Number of houses | Amount | Number of houses | Amount | Number of houses | | Year |
| \$'000 | | \$'000 | | \$'000 | | | |
| 160,426 | 21,953 | 200,359 | 25,867 | 22,144 | 2,080 | | 1970-71 |
| 177,309 | 23,130 | 225,186 | 27,845 | 24,827 | 1,978 | | 1971-72 |
| 180,438 | 22,942 | 239,156 | 28,819 | 13,970 | 974 | | 1972-73 |
| 167,995 | 21,550 | 240,313 | 28,895 | 1,158 | 76 | | 1973-74 |
| 160,422 | 20,779 | 241,827 | 28,974 | 1,514 | 79 | | 1974-75 |

(a) Comprises principal outstanding and loan charges due but not paid.

The Sale of Homes Agency also acts as agent for the Housing Commission in arranging the sale of houses erected by the Commission on applicants' land. Under this scheme persons who have established a housing need may apply to the Commission to have a standard-type dwelling erected on their own land. The houses are sold, at a price equivalent to their capital cost, on the same terms as for houses erected under the 1956 to 1966 Housing Agreements and the States Grants (Housing) Act of 1971. Up to 30 June 1975, 753 houses had been built at a cost of \$7,790,000, the balance of indebtedness at that date was \$4.807,000.

Rural Bank of New South Wales—Other loans. The Rural Bank of New South Wales provides assistance to individuals for the erection of purchase of homes and for other approved purposes associated with homes. Advances are based on the bank's official valuation of the dwelling. The current rate of interest on long-term loans for housing purposes is 6.75 per cent per annum.

Victoria

Housing Commission of Victoria. Commission policy is to encourage home ownership and of the 78,807 dwelling units built up to 30 June 1975, under the State Housing Scheme, the Federal State Agreements and Housing Grant, a total of 38,431 houses have been sold (22,818 in the metropolitan area and 15,613 in the country).

Home Finance Trust. The Home Finance Trust is a corporate body constituted under the Home Finance Act 1962. It is authorised to receive money on deposit, the repayment of which is guaranteed by the Government of Victoria, for the purpose of making loans for housing on the security of first and second mortgages. Under the terms of the Act the Trust is precluded from making loans in certain circumstances.

The number of loans granted by the Trust to 30 June 1975, and subsisting totalled 3,271, on the security of first mortgages and 784 on second mortgages, the amounts involved being \$25.5 million and \$1.5 million, respectively.

(See Savings Banks, page 243, for activities of the State Savings Bank of Victoria.)

Queensland

Queensland Housing Commission. The major housing scheme financed solely by the State Government is the Workers Dwelling Scheme. Under the State Housing Act 1945-74, an eligible person who is the owner of a suitable building site may obtain an advance, secured by mortgage on the land, from the Housing Commission for the erection of a workers' dwelling. The Housing Commission also provides finance for the purchase of homes constructed by the Commission to the applicant's design on Commission land under contract of sale. From 13 February 1975, the maximum advance under both schemes was increased from \$15,000 to \$18,000. Interest on advances in respect of applications lodged on or after 1 October 1971 is chargeable at 5½ per cent, and repayments may be made over periods up to 45 years.

South Australia

South Australian Housing Trust Sales Schemes. Prospective purchasers of Housing Trust houses (other than Rental Purchase houses) may purchase either by paying cash or by paying a deposit and arranging for a loan on security of a first mortgage from any of the recognised lending authorities. In cases where the deposit and the first mortgage so raised are insufficient, the Trust may advance the balance of the house price on security of a second mortgage, the term of which is usually coterminous,

but not exceeding 30 years. The interest rate is 9.25 per cent at 30 June and the interest is adjusted quarterly. During 1974-75 the Trust commenced 146 second mortgages valued at \$260,380. At 30 June 1975 second mortgages totalled 6,693 and the balance outstanding at that date was \$8,500,000. A minimum deposit of \$100 is required for houses built under the Rental Purchase Scheme. The balance of the purchase price is repayable to the Trust in weekly instalments over periods up to 40 years at 5.5 per cent interest per annum.

State Bank of South Australia. The State Bank, together with the Housing Trust, are the principal agents of the State Government for the distribution of moneys received under housing assistance arrangements with the Commonwealth Government. During 1974-75 the Bank opened 2,837 new accounts worth \$39,500,446 in the Home Builders' Account. The balance of loans outstanding on this account at 30 June 1975, totalled \$172,635,370. The Bank administers the Advances for Homes Act, 1928-1972 on behalf of the State Government. However, advances under this Act have virtually ceased and the only funds being made available are for repairs to tenancy houses and for extra bedroom accommodation. The balance outstanding under this Act at 30 June 1975 was \$13,415,440. The present maximum housing loan is \$18,000, repayable over a period not exceeding forty years at a rate of interest of 6.5 per cent per annum calculated on monthly balances.

(See Savings Banks, page 243 for activities of the Savings Bank of South Australia.)

Western Australia

State Housing Commission of Western Australia. Under the State Housing Act (and the Federal State Housing Agreement up to 30 June 1971) the maximum loan is \$9,000 by way of mortgage, while under contract of sale the maximum is arrived at by negotiation. The maximum loan is greater in rural areas than in the metropolitan area, depending on the circumstances.

To proceed under the mortgage conditions, a deposit of not less than 10 per cent is required, but under contract of sale the deposit may be as low as \$200. The interest rate on all advances is 5.75 per cent per annum and the repayment period is forty-five years. The income eligibility figure varies according to the movement of the basic wage, and currently an applicant in the Metropolitan Area cannot have an income exceeding \$6,799 a year, plus \$100 for each dependent child under twenty-one years of age. The remainder of the State is divided into 5 zones and the income eligibility varies from \$8,797 to \$9,597 plus \$100 for each dependent child under twenty-one years of age. A second mortgage scheme exists under the State Housing Act, which provides that assistance be limited to those applicants who are building or purchasing new homes, the cost of which, excluding land, does not exceed \$10,000. The Commission limits the second mortgage to a maximum of \$2,000.

(See Savings Banks, page 243, for activities of the Savings Bank Division of the Rural and Industries Bank of Western Australia.)

Tasmania

Housing Department. The interest rate on purchase contract loans as at 1 July 1975, was 5.75 per cent. The number of loans outstanding at 30 June 1975, was 7,922, and the amount outstanding \$64,939,287.

Agricultural Bank of Tasmania. The Agricultural Bank, as an approved lending authority under the current Federal State Housing Agreement provides loans under the provisions of the Homes Act to prospective buyers. To be eligible for a loan, an applicant, whose income is subject to a needs test, must be married, about to be married or have dependants for whom it is necessary to provide a home. Loans up to a maximum of \$15,000, or 97 per cent of the Bank's valuation of land and dwelling, whichever is the lesser, will be considered on acceptable proposals throughout Tasmania. Such loans, currently bearing interest at 5.75 or 6.25 per cent depending on the application of the needs test, are repayable by equated monthly instalments over periods up to thirty years. Other limited funds, not subject to a needs test, are currently available at 8.5 per cent.

During 1974-75, 453 loans totalling \$6,148,000 were approved. Since November, 1945, a total of 6,160 loans amounting to \$47,304,000 has been approved of which 3,942 have been for the erection of dwellings, and 2,218 for the purchase of existing homes. Total loans outstanding at 30 June 1975 amounted to \$30,290,000. The figures exclude advances to co-operative housing societies.

Northern Territory

Loans Scheme. This scheme was commenced in 1953 and is administered by the Home Finance Trustee under the Housing Loans Ordinance 1949–1967. Advances may be made for the erection of a house, the purchase or enlargement of an existing house, the completion of a partially erected dwelling, or the discharge of a mortgage already existing. Loans are provided on a deposit of 5 per cent of the first \$4,000 and 10 per cent of the balance of the Trustee's valuation up to a maximum

of \$12,000. The rate of interest charged is 8.25 per cent per annum reducible to 7.25 per cent per annum if instalment payments are made by the due date. The maximum period of repayment is forty-five years for brick houses and twenty-five years for other houses. Up to 30 June 1973, 1,456 loans totalling \$8,601,250 had been approved. These were for: erection, 811; purchase, 463; enlargement or completion, 114; discharge of mortgage, 68.

Sales Scheme. Tenants of government-owned houses under the control of the Department of the Northern Territory may purchase the dwellings they occupy either for cash or on terms requiring a minimum deposit of 5 per cent of the purchase price with repayments over a maximum period of forty-five years including interest at 6.25 per cent per annum.

Housing Commission Sales Scheme. Since the November 1963 amendment of the Housing Ordinance 1959-1971 the Housing Commission has been permitted to sell its houses to tenants in occupation. The terms require a minimum cash deposit of \$200 and repayment of the remainder of the loan over a period not exceeding forty-five years; there is no prescribed limit to the amount of the loan and the rate of interest is fixed by the Commission from time to time.

Australian Capital Territory

Loans to a maximum of \$15,000 may be granted by the Commissioner for Housing to enable persons to purchase or build new houses in the Australian Capital Territory. Repayment may be made over a maximum period of thirty-two years. There are two rates of interest applicable to Commissioner for Housing loans. The normal rate of 9½ per cent applies where the combined gross incomes of breadwinner and spouse exceed 95 per cent of A.C.T. average weekly earnings. For gross incomes below this level, a concessional rate of 5½ per cent applies. In both instances, an allowance of \$2 for each dependent child after the second child is deducted from total gross income. At 30 June 1976, 13,830 houses were under mortgage to the Commissioner.

Government rental houses valued at current market values may be sold to tenants. The basis of the sale is a minimum deposit of 5 per cent of the purchase price fixed by the Department of the Capital Territory with no limit to the amount which may be held on mortgage from the Department. Repayment of the amount covered by mortgage may be made over a maximum period of thirty-two years. There are two rates of interest applicable, the normal rate is 10½ per cent (less one per cent for payment by the due date) on the first \$15,000 and 12½ per cent (less one per cent as above) on the remainder of the mortgage. A concessional rate of 6½ per cent less one per cent for payment by the due date, applies in situations where the combined incomes of breadwinner and spouse do not exceed 95 per cent of A.C.T. average weekly earnings. In both instances, an allowance of \$2 for each dependent child after the second child is deducted from total gross income. To 30 June 1976, 13,265 houses had been sold to tenants.

Savings banks

All savings banks lend funds for housing to both individuals and building societies. Details of savings banks housing finance transactions during the years 1971–72 to 1974–75 are shown in the following table. (See the chapter Private Finance for further details.)

SAVINGS BANKS: HOUSING LOANS APPROVED AND BALANCES OUTSTANDING TO INDIVIDUALS (\$'000)

| Total | A.C.T. | Tas. | W.A. | S.A.(a) | Qld | Vic. | N.S.W. | | Year |
|-----------|--------|---------|---------|---------|----------|-----------|-----------|---|---------|
| | | | NG YEAR | ED DURI | S APPROV | LOANS | | | |
| 670,492 | 8,090 | 18,298 | 48,198 | 75,768 | 81,192 | 229,581 | 209,365 | • | 1971–72 |
| 1,104,251 | 16,017 | 26,630 | 76,418 | 120,878 | 142,221 | 389,262 | 332,826 | | 1972-73 |
| 1,167,240 | 22,150 | 29,709 | 95,996 | 127,114 | 131,761 | 426,431 | 334,079 | | 1973-74 |
| 1,768,060 | 40,474 | 39,046 | 133,934 | 163,053 | 175,254 | 664,608 | 551,692 | • | 1974–75 |
| | | YEAR | END OF | DING AT | NATSTUC | ALANCES (| BA | | |
| 2,392,042 | 18,115 | 59,782 | 166,540 | 307,357 | 260,540 | 915,839 | 663,869 | | 1971–72 |
| 2,825,276 | 26,344 | 70,825 | 203,418 | 360,280 | 320,361 | 1,056,771 | 787,277 | | 1972-73 |
| 3,460,793 | 39,608 | 85,882 | 258,514 | 423,056 | 396,441 | 1,280,816 | 976,476 | | 1973-74 |
| 4,502,291 | 68,285 | 104,781 | 346,714 | 515,284 | 504,415 | 1,667,597 | 1,295,215 | | 1974-75 |

State Savings Bank of Victoria. The Bank grants long-term loans to depositors to enable them to build, purchase or improve homes. These loans are granted by both the Credit Foncier and Savings Bank Departments.

The maximum proportion of valuation to be granted as Credit Foncier loan is eighty per cent and the maximum loan is \$8,000. Interest is 9.25 per cent and the term of the loan is ten years, subject to renewal. The maximum proportion of valuation granted as Savings Bank Department loan is eighty per cent with no limit on the maximum loan. For a property to be occupied by the borrower the interest rate is at least 9.25 per cent, depending on the amount of the loan. The above conditions are those current as at 31 December 1975 but are subject to review and alteration by the Bank at any time. During the year 1974–75 the Bank advanced \$276,656,028 to 16,417 borrowers. At 30 June 1975 the total debt of 89,523 individual borrowers was \$817,399,082, while indebtedness of Co-operative Housing Societies and the Home Finance Trust amounted to \$4,372,639 and \$8,882,204 respectively.

Savings Bank of South Australia. The bank grants mortgage loans for the building or purchase for personal occupation, of existing houses, houses not previously occupied and those to be erected. Normally advances are made up to 85 per cent of the Bank's valuation or 95 per cent where the borrower elects to insure the loan with the Housing Loan Insurance Corporation and pay the necessary premium which may be added to the loan if so desired. The maximum loan period is thirty years and the rate of interest on loans of up to \$15,000 is 8.75 per cent per annum; this rate is subject to review at any time. Loans above \$15,000 are available at slightly higher interest rates.

During 1974-75 the Bank advanced \$46,767,333 by way of housing loans. At 30 June 1975 there were 29,751 housing loans current with a balance outstanding of \$231,607,375.

The Rural and Industries Bank of Western Australia (Savings Bank Division). The Bank makes loans available through its Savings Bank Division for home purchase or erection and for home improvements. It is the Bank's policy to provide housing funds primarily for dwellings to be occupied by the borrower. There is no upper limit on the amount borrowed nor is there any limit as to term although as a general rule a maximum of 30 years applies. In special circumstances advances up to 95 per cent of purchase price may be granted subject to housing loan insurance. Interest rates at June 30, 1975 ranged between 9.25 per cent and 10.5 per cent per annum reducible depending on the amount borrowed.

The bank undertakes the sub-division and development of land and the erection of homes which are sold under conditions which ensure that the purchasers are genuine home seekers. This activity commenced in May 1967. The number of homes built to 30 June 1975 was 557, whilst another 29 were under construction. In addition, 529 building lots (under certain restrictions) were made available to project builders for the erection and sale of houses. A further 1,722 building lots have been auctioned to the public under restrictions designed to favour genuine home seekers.

Trading banks

Apart from loans by certain State banks as Government agencies (see pages 239-42) advances for housing to individuals are also provided by the trading banks. Amounts outstanding in respect of advances to individuals for housing purposes made by the major trading banks were \$614 million on the second Wednesday of July 1975 (see the chapter Private Finance for further details).

Life insurance companies

The life insurance companies are another source of funds for housing. Details of new loans paid over during the twelve months ended June 1971 to 1975 and amounts outstanding at end of June 1971 to 1975, are given in the following table.

LIFE INSURANCE COMPANIES: HOUSING LOANS PAID OVER AND AMOUNTS OUTSTANDING

(\$'000)

| | | | 1970-71 | 1971-72 | 1972–73 | 1973-74 | 1974-75 |
|---------|--------|-----------|-------------|-------------|-------------|-------------|-----------------|
| over | đι | iring | | | | | |
| | | | 29,686 | 30,419 | 29,348 | 42,077 | 29,254 |
| | | | 21,145 | 20,004 | 20,859 | 29,116 | 24,075 |
| | | | 6,921 | 7,159 | 6,521 | 7,942 | 6,539 |
| | | | 6.033 | 5,908 | 6,216 | 7,113 | 6,515 |
| | | | 5,335 | 5,086 | 4,747 | 6,157 | 6,743 |
| | | | 1,728 | 1,751 | 1.456 | 1,480 | 1,928 |
| | | | 40 | 133 | 92 | 363 | [*] 81 |
| | ory | | 991 | 1,459 | 2,372 | 2,493 | 954 |
| | | | 71,879 | 71,918 | 71,607 | 96,745 | 76,088 |
| on i | hou | sing | 442,567 | 454,476 | 447,958 | 474,704 | 491,135 |
| | Territ | Territory | Territory . | over during | over during | over during | over during |

Registered building societies

There were 6,229 registered building societies operating in Australia during the year ending 30 June 1974 of which 192 are permanent societies and the remainder terminating societies. The permanent societies are, in the main, investment societies which make loans for housing purposes, usually on credit foncier terms, and obtain their funds from share capital, deposits and borrowings from banks and other lending institutions. The terminating societies make loans to members from funds obtained from lending institutions (usually government guaranteed), members' subscriptions and, since 1956, from moneys provided under the Federal-State Housing Agreements. Details of new loans paid over and net advances outstanding for each of the years ended June 1970 to 1974 are given in the following table (see also the chapter Private Finance).

REGISTERED BUILDING SOCIETIES (\$'000)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. and N.T. | Total |
|--------------------|---|--------------------|--------------------|--------------------|------------------|--------------------|------------------|--------------------|----------------------|
| | | | LOANS | S PAID OV | ER DUR | ING YEAR | | | |
| 1969–70 | | 225,151 | 54,212 | 49,276 | 12,135 | 91,481 | 12,008 | п.а. | 444,263 |
| 1970-71 | • | 232,138 | 61,229 | 54,428 | 12,951 | 84,150 | 8,142 | n.a. | 453,038 |
| 1971-72 1972-73 | • | 309,014 528,573 | 107,627 206,619 | 102,071 191,581 | 14,053 25,277 | 107,007 136,437 | 10,831 20,349 | 15,446 30,291 | 666,049 1,139,127 |
| 1973-74 | : | 307,132 | 210,640 | 228,079 | 45,804 | 157,831 | 19,418 | 22,060 | 990,964 |
| | | NET A | DVANCES | OUTSTA | NDING(a) | AT END | OF YEAR | t | |
| 1969-70 | | 861,985 | 309,186 | 162,363 | 36,466 | 189,482 | 42,603 | n.a. | 1,602,085 |
| 1970-71 | | 995,647 | 338,445 | 194,708 | 45,439 | 253,389 | 44,930 | n.a. | 1,872,558 |
| 1971–72 | | 1,188,587 | 408,360 | 269,939 | 54,134 | 331,636 | 49,473 | 37,764 | 2,339,893 |
| 1972-73 | | 1,524,037 | 560,087 | 401,963 | 71,982 | 432,905 | 60,981 | 62,559 | 3,114,514 |
| 1973–74 | • | 1,628,440 | 678,359 | 537,349 | 106,639 | 529,196 | 69,026 | 76,335 | 3,625,344 |

Other lenders

At this time there is little statistical information available on advances made by other lenders such as superannuation and other trust funds, private finance and investment companies, etc. In South Australia advances on first mortgage made by the South Australian Superannuation Fund are granted on a credit foncier basis. Loans are limited to 70 per cent of value unless repayments are insured with an approved insurer, in which case loans of up to 90 per cent of value are made. The interest rate may be varied from time to time, the present minimum rate being 11.00 per cent per annum. The maximum term is 30 years for homes of solid construction, and 20 years for timber-framed homes. At 30 June 1974 there were 4,603 loans current, the principal outstanding totalling \$27,287,128. During 1973-74 the value of advances made was \$4,257,650.



CHAPTER 10

LABOUR, WAGES AND PRICES

For particulars of the Farm Production Price Index, see the chapter Miscellaneous. For current information on the subjects dealt with in this chapter, see the Monthly Review of Business Statistics (1.4) and the Digest of Current Economic Statistics (1.5) (monthly), also the mimeographed statements Wage Rates and Earnings (6.16), Consumer Price Index (9.1), Consumer Price Index Monthly Food Group Index Numbers (9.11), Price Index of Materials used in Building other than House Building (9.6), Price Index of Materials used in House Building (9.9), Price Index of Materials used in Manufacturing Industry (9.13), Price Index of Electrical Installation Materials (9.5), Price Indexes of Metallic Materials (9.10), and Export Price Index (9.2). For further information on these subjects, except the Export Price Index, see the Labour Report (6.7) issued by this Bureau.

RETAIL PRICES AND PRICE INDEXES

Retail prices of food and groceries and average rentals of houses for years extending back to 1901 have been collected by the Commonwealth Statistician, and in some cases were recorded by the Statisticians of various States for earlier years.

Retail prices of a more extensive range of commodities (including clothing) and certain services in common demand have been ascertained at frequent and regular intervals since 1923 and comparable information was ascertained for the month of November in each year from 1914 to 1922. The range of items for which retail prices data are obtained was considerably expanded in 1948 and in later years. Average retail prices of certain food and grocery items in current periods are published in the annual Labour Report.

An explanation of the nature and purposes of retail price indexes is given in the various editions of the annual *Labour Report*, together with further particulars of indexes then current. Previous retail price indexes for Australia are briefly described below. The current retail price index, entitled the Consumer Price Index, was published for the first time in August 1960. It was compiled retrospectively to 1948-49. A description of the Consumer Price Index is given on pages 248-50.

Previous retail price indexes

Five series of retail price indexes had been compiled at various times for Australia by the Commonwealth Statistician prior to 1960. Each of these was continued until changed conditions required the compilation of indexes more directly relevant to current conditions. The respective indexes were as follows.

- (i) The 'A' Series Index (covering food, groceries and house rents) was first compiled in 1912 with the year 1911 as base = 1,000. It was discontinued in June 1938.
- (ii) The 'B' Series Index (covering food, groceries and rent of 4 and 5 roomed houses) was first compiled in 1925 and continued until December quarter 1953. It was the food and rent constituent of the 'C' Series Index and was designed to replace the 'A' Series Index for general statistical purposes.
- (iii) The 'C' Series Index (covering food and groceries, rent of 4 and 5 roomed houses, clothing, household drapery, household utensils, fuel, lighting, fares, smoking, and some other miscellaneous items) was first compiled in 1921. It was last issued on its original basis for December quarter 1960. For certain transitional purposes a 'C' Series Index was issued for some quarters after that. This was calculated by varying the index numbers of December quarter 1960 in proportion to movements shown by the Consumer Price Index.
- (iv) The 'D' Series Index, derived by combining the 'A' and 'C' Series Indexes, was used by the Commonwealth Court of Conciliation and Arbitration from May 1933 to May 1934 and then discontinued.

(v) The Interim Index (covering food and groceries, rent of 4 and 5 roomed houses, clothing, household drapery, household utensils, fuel, lighting, fares, smoking, certain services and some miscellaneous items) was first compiled in 1954 with the year 1952-53 as base = 100. As its title indicated, it was constructed as a transitional index. Its compilation was discontinued following its replacement by the Consumer Price Index in June quarter 1960.

An index of retail price movements from 1901 to 1975 is shown on page 254 of this Year Book. It is derived by linking together successive indexes (the 'A' Series, the 'C' Series and the Consumer Price Index) available for that period.

In 1937 the Commonwealth Court of Conciliation and Arbitration introduced a 'Court' Index for the purpose of its system of making automatic quarterly adjustments to the basic wage within its jurisdiction. By decision of the Court the 'Court' Index ceased to be issued by the Industrial Registrar as at December quarter 1953. These 'Court' Index numbers were an arithmetical conversion of the 'C' Series Retail Price Index.

Consumer Price Index

This retail price index was first compiled in 1960, retrospectively to September quarter 1948. A full description of the index is given in *Labour Report* No. 58, 1973. The Consumer Price Index, a chain of 'fixed weight aggregative' indexes linked at short intervals to form a continuous series, was further linked at December quarter 1973. Details of this change were published in the bulletin *Consumer Price Index*, *March quarter 1974* (Ref. No. 9.1) and in *Labour Report* No. 58, 1973. The index was further linked at September quarter 1974 to exclude the items 'radio and television licences'.

Origin

The list of component items and the weighting pattern of the 'C' Series Retail Price Index, first adopted in 1921, were slightly revised by a Conference of Statisticians in 1936, but otherwise continued almost unchanged until the index was discontinued in 1960. The reasons for this and the circumstances which led to the present Consumer Price Index appear from ensuing paragraphs.

From the outbreak of war in 1939 to late in 1948, periodic policy changes in regard to various war-time controls (including rationing) caused recurrent changes in consumption and in the pattern of expenditure. This rendered changes desirable, but made it impracticable either to produce a new index, or to revise the old one, on any basis that would render the index more representative than it already was of the changing pattern of household expenditure in those years.

When commodity rationing had virtually ceased in the latter part of 1948, action was taken by the Statistician to collect price data of about 100 additional items and to gather information about current consumption and expenditure patterns. This was done to facilitate review of the component items and weighting system of the 'C' Series Retail Price Index in the light of the new pattern of wage-earner expenditure and consumption that appeared to be emerging. But there supervened, in the next few years, conditions which caused wide price dispersion coupled with a very rapid rise in prices and a new sequence of changes in consumption and in the pattern of wage-earner expenditure. Under these conditions it was not possible to devise any new weighting pattern likely to be more continuously representative of conditions then current than was the existing 'C' Series Retail Price Index on the 1936 revision.

A conference of Statisticians considered the matter in June 1953, and resolved (in part) as follows:

- '(a) that, in view of the persistence of recurrent changes in the pattern of consumer expenditure in the post-war period it is undesirable to make a general revision of the list of items and weighting system of the 'C' Series Retail Price Index at present, unless industrial tribunals expressly desire some revision for special purposes;
- (b) that an Interim Retail Price Index be compiled with putative weights and components representative, as nearly as may be, of the post-war pattern of consumer usage and expenditure.'

The 'C' Series Index continued to be compiled on its pre-war basis without significant change in procedures. The Interim Retail Price Index was introduced in 1954 and continued until March quarter 1960.

The Interim Index was a transitional index designed to measure retail price variations on the 'C' Series model in terms of post-war consumption weights as emerging in the early 1950's. It embraced a wider range of commodities and services than did the 'C' Series Retail Price Index, but it did not take into account successive major changes in the pattern of expenditure and modes of living

that began to occur early in 1950 and through to 1960. These changes could not in fact be detected and measured promptly and incorporated into an index concurrently with their happening. Nor was it envisaged as desirable to adopt fundamentally new procedures in price index construction until it was fully evident that far-reaching procedural changes were necessary to meet the situation that had developed between about 1950 and 1960.

In this period home-owning largely replaced house-renting, the use of the motor car greatly increased and partly replaced use of public transport, and various items of electrical household equipment and television came into widespread use. The impact of these (and other) changes in usage upon the pattern of household expenditure was heightened by disparate movements in prices. Together, they rendered nugatory the attempt to meet the situation by devising a single Interim Retail Price Index. As studies progressed and new data became available it was clear that no single list of items and no single set of fixed weights would be adequately representative as a basis for measuring retail price changes at all times throughout the post-war period. In consequence, the situation was met by compiling the Consumer Price Index constructed as a chain of linked indexes with significant changes in composition and weighting effected at short intervals.

Purpose, scope and composition

The Consumer Price Index is a quarterly measure of variations in retail prices for goods and services representing a high proportion of the expenditure of wage-earner households. The weighting pattern relates to estimated aggregates of wage-earner household expenditures and not to estimated expenditure of an 'average' or individual household of specified size, type, or mode of living. In this way it is possible to give appropriate representation to owner-occupied houses as well as rented houses and to include motor cars, television sets, and other major expenditures which relate to some households and not to others.

Consumer (retail) price indexes are sometimes loosely called 'cost of living indexes' and are thought to measure changes in the 'cost of living'. Neither the Consumer Price Index nor any other retail price index measures those changes in the cost of living that result directly from changes in the mode or level of living. Changes of that kind are matters for consideration apart from price indexes, but the change in prices of goods and services is a very important part of the change in the cost of living and this part is measured by consumer (retail) price indexes.

The Consumer Price Index covers a wide range of commodities and services arranged in the following five major groups:

Food;

Clothing and drapery;

Housing:

Household supplies and equipment;

Miscellaneous.

These groups do not include every item of household spending. It is both impracticable and unnecessary for them to do so. Prices are collected regularly for specified quantities and qualities of a large and representative selection of commodities and services. Movements in the prices of these items when combined in suitable proportions, provide a representative measure of price change as affecting a high proportion of the expenditure of wage-earner households.

Index numbers for sub-groups and special groupings have been compiled and published for the six State capital cities combined for each quarter from December quarter 1963. From December quarter 1968 onwards, information of contributions by index sub-groups to the total index in terms of All Groups Index Points has also been published. These details are shown in the tables on pages 30 to 32 of Labour Report No. 58, 1973.

Users of these figures should bear in mind that the Consumer Price Index is designed to measure the proportionate change in retail prices as combined in the five major groups and more particularly the total of the groups. For sub-groups or particular items, the index does not necessarily provide comprehensive and valid measures of price changes in those particular fields. Nor does it necessarily measure the relative influences of those classes of items in aggregate variations in prices. The Consumer Price Index is essentially a combination of selected items under various headings and not a dissection of total household expenditure into its component parts. Details of index numbers for sub-groups and special groupings are published to assist interpretation of movements shown by the Consumer Price Index and also to provide additional data of changes in retail prices.

Structure—a chain of linked indexes

Substantial changes have occurred in consumer usage and patterns of expenditure since the 1939-45 War. In order to keep the weighting pattern representative of current expenditures it has been necessary to construct indexes with additional items and changes in the weighting pattern at intervals, rather than on the basis of a list of items and set of weights that remained unchanged throughout the whole period covered. For the six State capital cities seven series for short periods (namely, from the September quarter of 1948 to the June quarter of 1952, from the June quarter of 1952 to the June quarter of 1956, from the June quarter of 1956 to the March quarter of 1960, from the March quarter of 1960 to the December quarter of 1963, from the December quarter of 1968 to the December quarter of 1973 to the September quarter of 1974, and from the September quarter of 1974 onwards) have therefore been constructed and linked to form a continuous retail price index series known as the Consumer Price Index. (For information regarding these links for Canberra see Labour Report No. 58, 1973.)

During each period between links the items and weighting remained unchanged. At times of linking the weighting pattern was altered, and new items (mainly ones that had become significant in household expenditure) were introduced. Under this method, in effect, average percentage price movements are assessed on one pattern up to the time of the link and on another pattern thereafter. The process of linking ensures that the series reflects only price variations and not differences in cost of the old and new lists of items. The introduction of new items and weights by linking does not, of itself, raise or lower the level of the index.

Tabular statements of retail price index numbers

Consumer Price Index

The index has been compiled for each quarter from September quarter 1948 and for each year from 1948-49. 'All Groups' index numbers and 'Group' index numbers for each of the five major groups are compiled and published regularly for the six State capital cities combined and separately and for Canberra. Index numbers for sub-groups and special groupings of the Consumer Price Index for the six State capital cities combined have been compiled and published for each quarter from December quarter 1963 and for each year from 1966-67. The reference base for these indexes is: Year 1966-67 = 100.0.

Index numbers for each quarter are first issued in mimeographed statistical bulletins available from the Commonwealth Statistician about three weeks after the end of the quarter. These bulletins contain comment on the index and on the significant price movements in that quarter. Tables showing index numbers for preceding quarters and years are presented.

The tables on the following pages show Consumer Price Index Numbers (Total All Groups) for the six State capital cities combined and separately and for Canberra for periods from the year 1958-59 (see page 251), Consumer Price Index Group Index Numbers for the six State capital cities combined for periods from the year 1958-59 (see page 252), and Consumer Price Index Group Index Numbers for each State capital city and for Canberra for recent years and quarters (see page 253).

CONSUMER PRICE INDEX: ALL GROUPS INDEX NUMBERS SIX STATE CAPITAL CITIES AND CANBERRA

(Base of each index: Year 1966-67 = 100.0) (a)

The separate city indexes measure price movements within each city individually. They do not compare price levels as between cities.

| | State capit | al cities—c | combined | and separa | tely | | | |
|--------------|-----------------------------------|-------------|----------------|------------|----------|-------|--------|----------|
| Period | Six State capital cities(b) | Sydney | Mėl- bourne | Brisbane | Adelaide | Perth | Hobart | Canberre |
| Year— | | | | | | | | |
| 1958-59 | . 83.6 | 84.6 | 82.9 | 82.1 | 83.6 | 83.2 | 84.1 | 85.8 |
| 1959-60 | . 85.7 | 86.5 | 85.3 | 84.2 | 86.2 | 84.8 | 85.6 | 87.6 |
| 1960-61 | . 89.2 | 89.6 | 89.5 | 87.1 | 89.8 | 87.9 | 90.3 | 90.3 |
| 1961–62 | . 89.6 | 89.9 | 89.8 | 88.4 | 89.5 | 88.2 | 90.7 | 91.6 |
| 1962-63 | . 89.8 | 90.4 | 89.7 | 88.7 | 89.1 | 88.7 | 90.7 | 91.8 |
| 1963-64 | . 90.6 | 91.4 | 90.4 | 89.6 | 90.2 | 89.8 | 91.7 | 92.5 |
| 1964–65 | . 94.0 | 94.5 | 94.0 | 93.0 | 93.9 | 92.6 | 94.6 | 95.3 |
| 1965–66 | . 97.4 | 97.7 | 97.5 | 97.5 | 97.0 | 96.1 | 98.0 | 98.1 |
| 1966–67 | . 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1967-68 | . 103.3 | 103.2 | 103.7 | 103.3 | 102.9 | 102.9 | 104.6 | 102.6 |
| 1968-69 | . 106.0 | 106.2 | 106.2 | 105.5 | 105.3 | 105.5 | 106.1 | 104.4 |
| 1969-70 | . 109.4 | 110.6 | 108.7 | 108.4 | 108.2 | 109.4 | 108.5 | 107.4 |
| 1970-71 | . 114.6 | 116.8 | 113.1 | 114.2 | 112.5 | 114.1 | 112.6 | 113.0 |
| 1971-72 | . 122.4 | 126.3 | 119.7 | 121.6 | 119.2 | 120.7 | 119.9 | 119.4 |
| 1972-73 | . 129.8 | 133.9 | 127.2 | 128.6 | 126.5 | 127.3 | 126.7 | 126.3 |
| 1973-74 | . 146.6 | 151.3 | 144.0 | 146.1 | 143.9 | 140.6 | 142.6 | 142.8 |
| 1974-75 | . 171.1 | 176.1 | 167.9 | 168.7 | 169.7 | 166.1 | 166.7 | 164.9 |
| Duarter— | | | | | | | | |
| 1971-March . | . 115.2 | 117.4 | 113.7 | 115.1 | 112.9 | 114.8 | 113.2 | 113.6 |
| June . | . 117.2 | 119.8 | 115.2 | 117.2 | 115.4 | 116.4 | 114.6 | 115.6 |
| September | . 119.4 | 123.3 | 116.5 | 119.0 | 116.5 | 117.2 | 116.5 | 117.2 |
| December | . 122.2 | 126.0 | 119.7 | 121.3 | 119.1 | 120.5 | 120.3 | 119.4 |
| 1972—March . | . 123.4 | 127.3 | 120.7 | 122.6 | 120.2 | 121.8 | 120.9 | 119.9 |
| June . | . 124.5 | 128.5 | 121.9 | 123.6 | 121.1 | 123.1 | 122.0 | 120.9 |
| September | . 126.2 | 130.3 | 123.6 | 124.6 | 123.0 | 124.8 | 123.4 | 122.6 |
| December | . 127.7 | 132.0 | 125.0 | 126.6 | 124.3 | 125.3 | 125.1 | 124.5 |
| 1973 March . | , 130.4 | 134.6 | 127.8 | 129.4 | 127.0 | 127.8 | 127.5 | 127.1 |
| June . | . 134.7 | 138.8 | 132.3 | 133.9 | 131.6 | 131.4 | 130.8 | 130.9 |
| September | . 139.6 | 144.1 | 136.8 | 139.4 | 136.5 | 134.4 | 135.2 | 135.6 |
| December | . 144.6 | 149.4 | 141.9 | 144.0 | 141.9 | 138.6 | 141.1 | 140.8 |
| 1974 March . | . 148.1 | 152.8 | 145.2 | 147.8 | 145.4 | 142.1 | 144.0 | 145.0 |
| June . | . 154.1 | 158.7 | 151.9 | 153.1 | 151.7 | 147.1 | 149.9 | 149.6 |
| September | . 162.0 | 167.0 | 159.4 | 161.4 | 159.4 | 154.3 | 157.4 | 157.4 |
| December | . 168.1 | 173.0 | 164.6 | 166.6 | 166.4 | 163.6 | 165.5 | 162.7 |
| 1975—March . | . 174.1 | 178.8 | 170.8 | 171.1 | 173.8 | 169.8 | 169.3 | 166.4 |
| June . | . 180.2 | 185.5 | 176.7 | 175.6 | 179.3 | 176.7 | 174.6 | 173.2 |
| September | . 181.6 | 188.2 | 177.7 | 178.4 | 178.2 | 176.5 | 175.9 | 173.0 |
| December | . 191.7 | 196.9 | 188.4 | 189.6 | 188.6 | 187.7 | 189.1 | 186.9 |

⁽a) Figures appearing after the decimal point possess little significance for general statistical purposes. They are inserted to avoid distortions that would occur in rounding off the figures to the nearest whole number. (b) Weighted average.

CONSUMER PRICE INDEX: GROUP INDEX NUMBERS WEIGHTED AVERAGE OF SIX STATE CAPITAL CITIES

(Base of each index: Year 1966-67 = 100.0) (a)

| Period | - | | Food | Clothing and drapery | Housing | Household supplies and equipment | Miscel- laneous | All groups |
|--------------|---|---|-------|----------------------------|---------|---|--------------------|---------------|
| Year— | | | | | | | | |
| 1958-59 | | | 81.6 | 90.5 | 72.9 | 94.4 | 81.4 | 83.6 |
| 1959-60 | | | 84.7 | 91.5 | 75.4 | 95.4 | 83.2 | 85.7 |
| 1960–61 | | • | 90.2 | 93.4 | 80.8 | 96.6 | 85.5 | 89.2 |
| 1961–62 | | | 88.6 | 94.4 | 84.0 | 97.9 | 86.1 | 89.6 |
| 1962–63 | | | 87.8 | 94.7 | 86.5 | 97.7 | 86.6 | 89.8 |
| 1963–64 | | | 89.0 | 95.3 | 89.1 | 96.4 | 87.3 | 90.6 |
| 1964–65 | | | 93.9 | 96.8 | 92.0 | 97.2 | 91.4 | 94.0 |
| 1965–66 | ٠ | ٠ | 98.4 | 97.9 | 95.9 | 98.9 | 95.8 | 97.4 |
| 1966–67 | | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1967–68 | | | 104.7 | 102.2 | 104.5 | 101.2 | 102.8 | 103.3 |
| 1968–69 | | | 105.8 | 104.3 | 109.1 | 102.9 | 107.5 | 106.0 |
| 1969–70 | | | 108.1 | 107.5 | 115.5 | 104.1 | 111.6 | 109.4 |
| 1970–71 | • | • | 112.4 | 111.9 | 123.5 | 107.4 | 117.8 | 114.6 |
| 1971-72 | | | 116.8 | 118.5 | 133.0 | 111.7 | 131.0 | 122.4 |
| 1972–73 | | | 125.7 | 125.8 | 142.4 | 115.4 | 137.5 | 129.8 |
| 1973–74 | | • | 149.5 | 143.0 | 157.8 | 125.0 | 150.6 | 146.6 |
| 1974–75 | • | • | 164.0 | 173.0 | 187.4 | 146.6 | 180 8 | 171.1 |
| Quarter— | | | | | | | | |
| 1971—March . | | | 112.3 | 112.2 | 124.4 | 107.8 | 119.4 | 115.2 |
| June . | | | 114.3 | 115.1 | 126.8 | 109.8 | 120.7 | 117.2 |
| September | | | 115.6 | 115.7 | 128.8 | 110.0 | 125.7 | 119.4 |
| December | • | • | 116.7 | 118.0 | 132.4 | 111.3 | 131.2 | 122.2 |
| 1972-March . | | | 117.5 | 118.8 | 134.1 | 112.5 | 132.8 | 123.4 |
| June . | | • | 117.5 | 121.3 | 136.6 | 113.0 | 134.1 | 124.5 |
| September | • | • | 120.1 | 122.2 | 138.5 | 113.7 | 135.6 | 126.2 |
| December | • | • | 121.6 | 124.3 | 141.3 | 114.5 | 136.5 | 127.7 |
| 1973-March . | | | 126.9 | 125.7 | 143.1 | 115.9 | 137.8 | 130.4 |
| June . | | | 134.0 | 131.1 | 146.7 | 117.6 | 140.0 | 134.7 |
| September | • | • | 141.4 | 134.9 | 149.8 | 120.9 | 144.0 | 139.6 |
| December | | • | 147.0 | 140.4 | 155.5 | 122.9 | 149.5 | 144.6 |
| 1974-March . | | | 152.0 | 143.2 | 158.9 | 125.9 | 152.1 | 148.1 |
| June . | | • | 157.6 | 153.6 | 167.0 | 130.3 | 156.8 | 154.1 |
| September | • | • | 161.9 | 161.1 | 174.8 | 138.9 | 167.7 | 162.0 |
| December | • | • | 161.6 | 172.8 | 184.3 | 143.7 | 176.1 | 168.1 |
| 1975-March . | | | 163.4 | 175.2 | 190.2 | 149.2 | 187.2 | 174.1 |
| June . | | | 168.9 | 182.9 | 200.3 | 154.4 | 192.1 | 180.2 |
| September | • | • | 171.6 | 187.1 | 207.5 | 158.1 | 188.2 | 181.6 |
| December | | | 176.9 | 200.0 | 218.4 | 162.9 | 203.2 | 191.7 |

⁽a) Figures appearing after the decimal point possess little significance for genera! statistical purposes. They are inserted to avoid distortions that would occur in rounding off the figures to the nearest whole number.

CONSUMER PRICE INDEX: GROUP INDEX NUMBERS SIX STATE CAPITAL CITIES AND CANBERRA

(Base of each index: Year 1966-67 = 100.0) (a)

The index numbers hereunder are designed to measure movements in retail prices of specified groups of items for specified cities individually. They measure variations from time to time and not differences in price level as between cities.

| | Year | | | | | | 1975 | | | |
|-----------------------|------------------|----------------|-------------------------|----------------|----------------|----------------|------------------|------------------|------------------|----------------|
| City | 1948-49 | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 | March quarter | June quarter | Sept. quarter | Dec quarter |
| | | | | FOOD | GROUP | | | | | |
| Six State Capitals(b) | 38.2 37.9 | 112.4 | 116.8 | 125.7 | 149.5 | 164.0 | 163.4 166.2 | 168.9 | 171.6 | 176.9 |
| Sydney | 37.9 38.9 | 112.8 112.7 | 117.5 116.8 | 126.1 125.9 | 151.5 148.8 | 166.3 161.7 | 166.2 159.8 | 170.3 166.2 | 173.1 170.1 | 179.0 175. |
| Melbourne Brisbane | 36.8 | 113.5 | 119.0 | 127.5 | 152.5 | 164.8 | 163.9 | 168.7 | 170.4 | 176. |
| Adelaide | 38.6 | 109.5 | 113.6 | 123.1 | 148.3 | 163.7 | 163.4 | 170.0 | 171.5 | 176. |
| Perth Hobart | 38.4 39.1 | 112.5 109.6 | 116.4 112.9 | 124.5 120.0 | 141.7 141.4 | 160.9 158.6 | 164.2 158.1 | 171.2 163.1 | 171.9 168.8 | 175 174.: |
| Canberra | 37.6 | 110.7 | 114.9 | 123.9 | 148.6 | 161.7 | 160.5 | 167.7 | 171.1 | 178. |
| | | | OT. 1131 | | DD 4 DC/ | cno | LID | | | |
| | | CL | OTHING | AND | DRAPE | RY GRO | UP | | | |
| Six State Capitals(b) | 48.9 | 111.9 | 118.5 | 125.8 | 143.0 | 173.0 | 175.2 | 182.9 | 187.1 | 200. |
| Sydney Melbourne | 49.0 48.6 | 112.0 | 118.7 117.9 | 125.9 | 143.6 142.3 | 174.1 172.0 | 176.2 174.1 | 183.6 | 187.4 186.2 | 200. 199. |
| Melbourne Brisbane | 47.8 | 111.5 111.7 | 118.0 | 125.4 125.3 | 142.0 | 171.5 | 173.7 | 182.2 181.2 | 185.6 | 198. |
| Adelaide | 49.4 | 112.6 | 119.5 | 127.2 | 144.2 | 173.8 174.2 | 176.2 | 183.9 | 189.6 | 202.: |
| Perth Hobart | 50.6 48.2 | 112.3 111.9 | 118.9 118.5 | 126.1 125.6 | 143.3 142.4 | 174.2 171.8 | 176.5 174.0 | 184. I 181. 3 | 188.5 186.1 | 201. 199. |
| Canberra | 49.5 | 111.7 | 118.2 | 125.6 | 142.4 | 172.3 | 174.3 | 182.2 | 185.7 | 200. |
| | | | | | | - | | | | |
| | | | H | OUSING | GROU | J P | | | | |
| Six State Capitals(b) | 40.5 | 123.5 | 133.0 | 142.4 | 157.8 | 187.4 | 190.2 | 200.3 | 207.5 | 218. |
| Sydney Melbourne | 41.1 41.3 | 131.6 117.8 | 143.2 124.9 | 154.9 133.1 | 171.5 148.3 | 199.2 180.6 | 200.1 | 213.2 194.7 | 220.5 201.4 | 230.1 210. |
| Brisbane | 41.3 | 118.3 | 128.8 | 136.7 | 150.3 | 176.4 | 184.2 179.2 | 183.4 | 193.7 | 200 |
| Adelaide | 38.4 | 115.9 | 124.4 | 133.3 | 150.6 | 185.3 | 191.3 | 198.2 | 204.0 | 221. |
| Perth Hobart | 36.1 36.8 | 125.7 117.4 | 133.7 124.2 | 139.7 131.8 | 149.1 146.9 | 174.2 180.9 | 178.4 186.0 | 184.6 194.2 | 191.2 199.7 | 207. 214. |
| Canberra | 41.8 | 116.3 | 121.9 | 128.4 | 140.2 | 163.3 | 165.0 | 168.2 | 172.3 | 194. |
| | нс | NISEHO | יוס אוו | PLIFS A | ND FO | UIPMEN | NT GRO | IIP | | |
| | | OSLITO | | | | | | | | _ |
| Six State Capitals(b) | 58.3 | 107.4 | 111.7 | 115.4 | 125.0 | 146.6 | 149.2 | 154.4 | 158.1 | 162. |
| Sydney Melbourne | 59.7 55.0 | 109.3 105.8 | 114.6 108.9 | 118.4 112.1 | 128.2 122.0 | 151.5 141.8 | 153.6 144.8 | 160.8 148.8 | 162.9 152.1 | 167. 157. |
| Brisbane | | 108 5 | 112 7 | 116.9 | 126.6 | 149.8 | 152.0 | 155.1 | 162.5 | 166. |
| Adelaide | 64.9 | 105.4 107.7 | 109.2 | 113.0 117.4 | 121.9 | 142.5 | 146.0 | 148.7 | 152.3 | 159. 168. |
| Perth Hobart | 60.4 53.4 | 107.7 109.2 | 109.2 112.7 116.4 | 117.4 120.3 | 125.7 128.3 | 146.8 149.2 | 149.6 153.2 | 156.8 156.0 | 164.5 160.1 | 168. 171. |
| Canberra | 61.4 | 104.7 | 107.5 | 111.9 | 120.0 | 138.9 | 141.6 | 145.1 | 147.9 | 152. |
| | | · | | | | | | | | |
| | | | MISC | ELLAN | EOUS G | KOUP | | | | |
| Six State Capitals(b) | 44.7 | | 131.0 | 137.5 143.7 | 150.6 | 180.8 | 187.2 | 192.1 | 188.2 | 203. |
| Sydney Melbourne | 46.5 42.2 | 120.3 115.8 | 137.4 127.1 | 143.7 134.5 | 155.7 149.1 | 186.5 178.6 | 192.9 185.5 | 198.8 189.2 | 199.3 183.2 | 209. 201. |
| Brisbane . | | | 127.7 | 133.5 | 148.1 | 175.4 | 180.8 | 184.2 | 182.6 | 202. |
| Adelaide | 47.1 | 118.1 | 128.3 | 133.7 | 146.5 | 178.9 | 187.0 | 191 3 | 181.0 | 194. |
| Perth Hobart | . 45.4 . 43.5 | 114.8 116.6 | 124.5 129.3 | 130.4 136.6 | | | 177.6 180.4 | 184.1 185.2 | 175.7 178.3 | 193. 198. |
| | | | | | | | | | | |
| Canberra . | . 50.2 | 119.3 | 130.4 | 135.9 | 149.4 | 177.6 | 180.5 | 189.6 | 181.8 | 200 |
| | | | | | | | | | | |

⁽a) Figures appearing after the decimal point possess little significance for general statistical purposes. They are inserted to avoid distortions that would occur in rounding off the figures to the nearest whole number. (b) Weighted average.

Retail Price Index Numbers, 1901 to 1975

The index numbers shown below are presented as a continuous series, but they give only a broad indication of long-term trends in retail price levels. They are derived by linking a number of indexes that differ greatly in scope. The successive indexes used are: from 1901 to 1914, the 'A' Series Retail Price Index: from 1914 to 1946-47, the 'C' Series Retail Price Index: from 1946-47 to 1948-49, a composite of Consumer Price Index Housing Group (partly estimated) and 'C' Series Index excluding Rent: and from 1948-49 onwards, the Consumer Price Index.

RETAIL PRICE INDEX NUMBERS: SIX STATE CAPITAL CITIES COMBINED, 1901 TO 1975

(Base: Year 1911 = 100.0)

| Year | | Index number | Year | | | Index number | Year | | Index number |
|---------|------|-----------------|------|---|---|-----------------|------|------|-----------------|
| 1901 | | 88 | 1926 | | , | 168 | 1951 | | 313 |
| 1902 | | 93 | 1927 | | | 166 | 1952 | | 367 |
| 1903 | | 91 | 1928 | | | 167 | 1953 | | 383 |
| 1904 | | 86 | 1929 | | | 171 | 1954 | | 386 |
| 1905 | | 90 | 1930 | | | 162 | 1955 | | 394 |
| 1906 | | 90 | 1931 | | | 145 | 1956 | | • 419 |
| 1907 | | 90 | 1932 | | | 138 | 1957 | | 429 |
| 1908 | | 95 | 1933 | | | 133 | 1958 | | 435 |
| 1909 | | 95 | 1934 | | | 136 | 1959 | | 443 |
| 1910 | | 97 | 1935 | | | 138 | 1960 | | 459 |
| 1911 | | 100 | 1936 | | | 141 | 1961 | | 471 |
| 1912 | | 110 | 1937 | | | 145 | 1962 | | 469 |
| 1913 | | 110 | 1938 | | | 149 | 1963 | | 472 |
| 1914(a) | | 114 | 1939 | | | 153 | 1964 | | 483 |
| 1915(a) | | 130 | 1940 | | | 159 | 1965 | | 502 |
| 1916(a) | | 132 | 1941 | | | 167 | 1966 | | 517 |
| 1917(a) | | 141 | 1942 | | | 181 | 1967 | | 534 |
| 1918(a) | | 150 | 1943 | | | 188 | 1968 | | 548 |
| 1919(a) | | 170 | 1944 | | | 187 | 1969 | | 564 |
| 1920(a) | | 193 | 1945 | | | 187 | 1970 | | 586 |
| 1921(a) | | 168 | 1946 | | | 190 | 1971 | | 621 |
| 1922(a) | | 162 | 1947 | | | 198 | 1972 | | 658 |
| 1923 | | 166 | 1948 | | | 218 | 1973 | | 720 |
| 1924 | | 164 | 1949 | | | 240 | 1974 | | 829 |
| 1925 | | 165 | 1950 | _ | | 262 | 1975 | | 954 |

(a) November.

International comparisons

The following table shows index numbers of consumer (retail) prices for various countries. Except where otherwise noted, the year 1963 is taken as base (= 100). The index numbers show fluctuations in prices in each country, and do not measure relative price levels as between countries.

INDEX NUMBERS OF CONSUMER (RETAIL) PRICES IN VARIOUS COUNTRIES ALL GROUPS INDEXES

(Source: Monthly Bulletin of Statistics of the Statistical Office of the United Nations) (Base of each Index: Year 1970 = 100.0)

| Period | | Australia (a) | Belgium (b) | Brazil (Sao Paulo) (c) | Canada | France | Federal Republic of Germany | India | Indonesia (Dja- karta) | Italy | Japan (d) | Nether- lands |
|---|------------------|--------------------------|----------------------------|---------------------------------|--------------------------|--------------------------|--------------------------------------|--------------------------|------------------------------|--------------------------|--------------------------|--------------------------|
| 1970 1971 | : | 100 106 | 100 104 | 100 121 | 100 103 | -100- 106 | - 100 105 | 100 103 | 100 104 | 100 -105~ | -100- 106 | 100 -108- |
| 1972 1973 1974 1975 | : | 112 123 142 163 | -110- 118 133 150 | 100 116 144 188 | 108 116 129 143 | 112 120 136 153 | 111 119 127 135 | 110 128 165 175 | 111 146 205 244 | 111 123 146 171 | 111 124 154 172 | 116 125 137 151 |
| Quarter- 1974— Mar June Sept Dec | rch c . t. | 133 138 145 150 | 125 130 136 140 | 128 142 149 158 | 123 127 131 134 | 129 134 139 143 | 125 127 128 130 | 146 159 175 180 | 190 203 207 219 | 134 142 150 159 | 145 151 157 164 | 132 136 138 143 |
| 1975— Mai June Sept Dec | rch e . t. | 156 161 163 172 | 144 148 151 155 | 170 181 195 206 | 137 140 145 148 | 147 151 154 157 | 132 135 136 137 | 176 177 175 170 | 229 239 246 262 | 165 169 173 178 | 166 172 174 178 | 146 150 153 156 |

| Period | | New Zealand | Norway | Pakistan (Karachi) (e) | Philip- pines (Manila) (f) | Singa- pore (g) | South Africa (h) | Sweden | Switzer- land | United Kingdom | | West Mal- aysia |
|--------------|--------------|----------------------------|--------------------------|------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1970 | | 100 | 100 | 100 | 100 | 100 | -100- | 100 | 100 | 100 | 100 | 100 |
| 1971 | | 110 | 106 | 105 | 123 | 102 | 106 | 107 | 107 | 109 | 104 | 102 |
| 1972 1973 | : | 118 128 | 114 122 | 105 127 | 143 153 | 104 128 | 113 124 | 114 122 | 114 124 | 117 128 | 108 114 | 105 116 |
| 1974 1975 | : | 142 163 | -134- 130 | - 164 198 | 215 235 | 122 126 | 138 157 | 134 147 | 136 145 | 148 184 | 127 139 | 136 |
| Ju Se | arch | 136 139 144 149 | 130 132 135 138 | 149 156 171 180 | 187 209 232 231 | 120 121 123 126 | 131 135 141 146 | 130 131 133 140 | 132 133 137 141 | 139 147 151 158 | 122 125 129 133 | 132 135 137 141 |
| Ju Se | arch ne . | -154- 160 165 172 | 144 147 152 154 | 188 198 202 206 | 234 232 235 238 | 127 125 126 125 | 150 155 159 163 | 141 144 149 152 | 143 145 146 146 | 167 183 191 197 | 135 137 140 142 | 143 141 142 |

⁽a) Consumer Price Index converted to base: 1970 = 100. (b) Excluding rent. (c) Beginning 1972 base: 1972 = 100. (d) Excluding Okinawa prefecture. (e) Prior to 1972: Karachi only: industrial workers. Beginning 1972, base: 1971 = 100. (f) Prior to 1970, low income group. Beginning 1970, middle income group. (g) Beginning 1974, new series, base: 1973 = 100. (h) White population.

The items priced and the levels at which they are priced in these indexes vary widely according to the intended purposes of the integers of the intended purposes.

WHOLESALE PRICE INDEXES

The Australian Bureau of Statistics compiles a range of wholesale price indexes relating to materials used by defined areas of the economy. These indexes are described in this section. Another price index relating to articles produced by manufacturing industry is currently being developed.

Two special purpose measures, the Price Index of Electrical Installation Materials and Price Indexes of Copper Materials used in the Manufacture of Electrical Equipment, are also published by the Bureau.

of the indexes of the various countries.

The index numbers show fluctuations in prices in each country and do not measure relative price levels as between

Note. Symbol — on each side of an index number (e.g. —95—) indicates that two series have been linked during that riod. Symbol —— between two index numbers indicates that it is not possible to link two series (because of change in period. Symbol scope, etc.) and therefore the index numbers are not comparable with each other even though they may be shown on the same base period.

Price Index of Materials used in Building other than House Building

This index was introduced in April 1969. It measures changes in prices of selected materials used in the construction of buildings other than houses and 'low-rise' flats (in general, those up to three storeys). Its composition is in accordance with the materials usage in actual building projects which were selected as representative for the purpose.

The reference base of the index is the year 1966-67 = 100.0. The weighting base corresponds broadly with the reference base, but does not exactly coincide because of the nature of the data from which the weights were derived. The index is a fixed-weights index and is calculated by the method known as 'the weighted arithmetic mean of price relatives'.

Prices are collected as at the mid-point of the month to which the index refers, or as near thereto as practicable. They relate to specified standards of each commodity and are obtained in all State capital cities from representative suppliers of materials used in building.

The index has been compiled for each month from July 1966, and for the financial years from 1966-67. Index numbers for the financial years are simple averages of the relevant monthly index numbers.

Further information concerning the method of compiling the index, as well as more detailed group index numbers for each capital city, will be found in the publication *Price Index of Materials used in Building other than House Building* (9.6) of 23 April 1969 and subsequent issues, as well as in the *Labour Report* No. 58, 1973 and in Year Book No. 60, 1974.

PRICE INDEX OF MATERIALS USED IN BUILDING OTHER THAN HOUSE BUILDING GROUP INDEX NUMBERS—WEIGHTED AVERAGE OF SIX STATE CAPITAL CITIES

(Base of each Index: Year 1966-67 = 100.0) (a)

| | | | | Concrete mix, cement, sand, etc | Cement products | Bricks, stone, etc | Timber, board and joinery | Steel and iron products | Aluminium products |
|-----------|-------|----|--|--|--------------------|-----------------------|---------------------------------|-------------------------------|-----------------------|
| Value wei | ght (| %) | | 10.41% | 3.64% | 5.28% | 11.90% | 30.58% | 6.01% |
| 1970–71 | _ | | | 113.0 | 118.0 | 118.6 | 117.0 | 115.8 | 113.0 |
| 1971-72 | | | | 120.6 | 126.1 | 124.2 | 123.4 | 125.4 | 119.3 |
| 1972-73 | | | | 124.5 | 135.0 | 130.1 | 132.9 | 130.3 | 125.4 |
| 1973-74 | | | | 136.0 | 147.7 | 146.3 | 160.2 | 148.8 | 138.4 |
| 1974-75 | | | | 164.6 | 183.9 | 179.4 | 194.7 | 189.2 | 169.2 |

| | | | Other metal products | Plumbing fixtures | Miscel- laneous materials | Electrical installation materials | Mechanical services components | All groups |
|------------------|--|--|----------------------|----------------------|---------------------------------|---|--------------------------------------|------------|
| Value weight (%) | | | 2.59% | 1.19% | 7.09% | 8.61% | 12.70% | 100.00% |
| 1970-71 | | | 121.4 | 121.3 | 110.3 | 110.9 | 119.0 | 115.5 |
| 1971-72 | | | 120.6 | 134.3 | 116.9 | 114.7 | 127.7 | 123.0 |
| 1972–73 | | | 126.4 | 143.5 | 124.5 | 120.5 | 132.4 | 128.9 |
| 1973-74 | | | 158.5 | 159.6 | 134.2 | 138.3 | 143.9 | 145.8 |
| 1974-75 | | | 162.7 | 197. 7 | 163.4 | 157.4 | 181.3 | 179.2 |

⁽a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index numbers to the nearest whole number.

PRICE INDEX OF MATERIALS USED IN BUILDING OTHER THAN HOUSE BUILDING ALL GROUPS INDEX NUMBERS—SIX STATE CAPITAL CITIES

(Base of each Index: Year 1966-67 = 100.0) (a)

NOTE. The separate city indexes measure price movements within each city individually. They do not compare price levels as between cities.

| | | | State capital cities | | | | | | | | | | | |
|---------|--|--------|----------------------|----------|----------|-------|--------|-------------------|--|--|--|--|--|--|
| | | Sydney | Melbourne | Brisbane | Adelaide | Perth | Hobart | capital cities | | | | | | |
| 1970–71 | | 116.4 | 115.1 | 116.4 | 113.9 | 113.3 | 115.0 | 115.5 | | | | | | |
| 1971-72 | | 122.4 | 123.9 | 124.4 | 122.7 | 121.3 | 122.6 | 123.0 | | | | | | |
| 1972-73 | | 127.2 | 131.2 | 130.4 | 129.8 | 126.3 | 129.7 | 128.9 | | | | | | |
| 1973-74 | | 144.1 | 148.0 | 149.0 | 145.8 | 142.9 | 143.8 | 145.8 | | | | | | |
| 1974-75 | | 176.0 | 180.6 | 186.6 | 181.0 | 176.7 | 179.3 | 179.2 | | | | | | |

⁽a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index numbers to the nearest whole number.

Price Index of Materials used in House Building

This index was introduced in November 1970. It measures changes in prices of selected materials used in the construction of houses. Its composition is in accordance with the usage of materials in actual houses which were selected as representative for the purpose.

In the interests of uniformity and ease of use, the reference base of the index is the year 1966-67 = 100.0, the same as that used for the Price Index of Materials used in Building other than House Building. However, because of the later time at which the weighting source data were collected, the weighting base approximates more closely to the year 1968-69. The index is a fixed weights index and is calculated by the method known as 'the weighted arithmetic mean of price relatives'.

Prices are collected as at the mid-point of the month to which the index refers, or as near thereto as practicable. They relate to specified standards of each commodity and are obtained in all State capital cities from representative suppliers of materials used in building.

The index has been compiled for each month from July 1966, and for the financial years from 1966-67. Index numbers for the financial years are simple averages of the relevant monthly index numbers

Further information concerning the method of compiling the index, as well as more detailed group index numbers and the separate weighting patterns for the six State capital cities, will be found in the publication *Price Index of Materials used in House Building* (9.9) of 27 November 1970. This and subsequent issues are available on request. A full description of the index is also given in *Labour Report* No. 58, 1973 and in Year Book No. 60, 1974.

PRICE INDEX OF MATERIALS USED IN HOUSE BUILDING GROUP INDEX NUMBERS—WEIGHTED AVERAGE OF SIX STATE CAPITAL CITIES

(Base of each Index: Year 1966-67 = 100.0) (a)

| | | | | Concrete mix, cement and sand | Cement products | Clay bricks, tiles etc. | Timber, board and joinery | Steel products | Other metal products |
|------------------|---|---|-------|---|--------------------|----------------------------------|------------------------------------|-------------------|----------------------------|
| Value weight (%) | | | 5.73% | 8.10% | 12.85% | 36.16% | 5.86% | 7.20% | |
| 1970-71 | | | | 113.4 | 121.8 | 118.0 | 118.5 | 115.0 | 112.4 |
| 1971-72 | | | | 121.2 | 132.0 | 124.5 | 124.8 | 127.9 | 118.5 |
| 1972-73 | | | | 127.0 | 139.9 | 130.7 | 137.0 | 136.8 | 124.9 |
| 1973-74 | | · | · | 137.5 | 154.3 | 146.8 | 169.1 | 153.8 | 146.3 |
| 1974-75 | • | | | 165.7 | 193.1 | 180.3 | 203.5 | 192.1 | 170.3 |
| | | | | | | | | | |

PRICE INDEX OF MATERIALS USED IN HOUSE BUILDING GROUP INDEX NUMBERS—WEIGHTED AVERAGE OF SIX STATE CAPITAL CITIES—continued

(Base of each Index: Year 1966-67 = 100.0) (a)

| | | | | Plumbing fixtures | Electrical instal- lation materials | Installed appli- ances | Plaster and plaster products | Miscel- laneous materials | All groups |
|------------------|--|--|--|----------------------|--|------------------------------|---------------------------------------|---------------------------------|---------------|
| Value weight (%) | | | | 3.74% | 1.63% | 5.13% | 5.64% | 7.96% | 100.00% |
| 1970–71 | | | | 113.6 | 115.0 | 103.8 | 109.4 | 111.0 | 115.7 |
| 1971-72 | | | | 122.6 | 120.2 | 107.4 | 116.9 | 116.4 | 122.7 |
| 1972-73 | | | | 129.6 | 126.2 | 108.3 | 118.7 | 124.9 | 131.1 |
| 1973-74 | | | | 143.2 | 146.4 | 117.7 | 122.2 | 135.0 | 151.3 |
| 1974-75 | | | | 174.5 | 168.3 | 146.4 | 147.8 | 161.5 | 183.4 |

⁽a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index numbers to the nearest whole number.

PRICE INDEX OF MATERIALS USED IN HOUSE BUILDING ALL GROUPS INDEX NUMBERS—SIX STATE CAPITAL CITIES

(Base of each Index: Year 1966-67 = 100.0) (a)

Note. The separate city indexes measure price movements within each city individually. They do not compare price levels as between cities.

| | | | | State capit | al cities | | | Weighted average of six State capital |
|---------|---|--------|-----------|-------------|-----------|-------|--------|---|
| Period | | Sydney | Melbourne | Brisbane | Adelaide | Perth | Hobart | cities |
| 1970-71 | • | 119.8 | 112.3 | 115.2 | 116.7 | 113.9 | 114.3 | 115.7 |
| 1971-72 | | 126.1 | 118.9 | 124.8 | 124.8 | 121.1 | 120.7 | 122.7 |
| 1972-73 | | 135.6 | 126.5 | 133.8 | 134.8 | 126.9 | 130.8 | 131.1 |
| 1973-74 | | 158.0 | 147.8 | 152.2 | 157.2 | 141.8 | 145.5 | 151.3 |
| 1974-75 | | 189.4 | 178.4 | 187.0 | 195.4 | 172.4 | 179.1 | 183.4 |

⁽a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off index numbers to the nearest whole number.

Price Index of Materials used in Manufacturing Industry

Introduction

This index was introduced in July 1975 and relates to materials (including fuels) used in manufacturing industry. It completes the presentation of a set of price indexes which replaces the Wholesale Price (Basic Materials and Foodstuffs) Index, publication of which was discontinued in December 1970.

Scope and composition

The composition of the index is based on materials used by establishments classified to Division C, Manufacturing, of the Australian Standard Industrial Classification (ASIC). The index is on a net basis; that is, it relates in concept only to those materials which are used by establishments within the Manufacturing Division in Australia and which have been produced by establishments outside that Division. Such outside establishments are either Australian establishments classified to other Divisions of Australian industry (e.g. Mining or Agriculture) or are overseas establishments (including overseas manufacturing establishments).

Materials purchased by establishments classified to the Australian Manufacturing Division from other establishments in that Division are outside the scope of the index and are excluded, but the same materials when purchased from overseas are included. Thus, for example, prices of Australian produced cotton fabric (a product of establishments classified to the Manufacturing Division) are excluded from the index whereas prices of imported cotton fabric are included. It follows that the

weight attributed to cotton fabric in the index only relates to cotton fabric of imported origin. A material which undergoes transformation at a number of stages during manufacturing will, at each stage, be an input to particular manufacturing industries. However, in keeping with the scope and net basis of this index, the material is only priced at the stage it first enters manufacturing. An example is the usage of copper concentrates. Prices of copper concentrates are reflected in the index; however, prices of copper ingots used in the manufacture of copper pipes, or of copper pipes used in the manufacture of plumbing items, are not included in the index. In other words, the pricing and weights for the index reflect usage of materials at the point of entry to the Manufacturing Division.

Base period and method of calculation

The reference base of the index is the year 1968-69 = 100.0. The index is a fixed-weights index and is calculated by the method known as 'the weighted arithmetic mean of price relatives'.

Derivation of items and weights

The items included in the index were selected on the basis of values of materials used, in 1971-72, by establishments classified to the Manufacturing Division of ASIC. Only materials originating from outside the Manufacturing Division (that is, materials which are *net inputs* to manufacturing) were selected. The selection was made from data reported in the 1971-72 Census of Manufacturing Establishments, and in 1971-72 import statistics.

The selected items were allocated weights in accordance with estimated manufacturing usage in the year 1971-72. Many of the selected items carry not only the weight of directly priced materials but also the weight of unpriced materials whose prices are considered to move similarly to those of directly priced materials.

Weighting patterns and classifications

The selected items have been published into broad *index groups* using two different classifications. Index numbers are published for each of the groups derived in this way. The classifications used for this purpose are:

- (i) Australian Standard Industrial Classification (ASIC), and
- (ii) Standard International Trade Classification (SITC).

In effect, the index numbers for index groups based on ASIC are on an *industry of origin basis* and in addition, the distinction between home produced and imported materials is made. Index numbers for index groups based on SITC are on a *commodity basis*. The percentage contributions for each of the index items, groups and categories are based on estimated usage in 1971-72, valued at the relevant prices applying in the reference base year 1968-69, and given on pages 261-4.

Prices

Prices incorporated in the index are obtained from representative suppliers and users in all States. Prices of home-produced items are generally obtained from principal users (that is manufacturers) but in some cases from major suppliers (producers or wholesalers). Prices of imported items are obtained from suppliers (importers) and users (manufacturers). In concept, pricing for the index is at the point at which the materials physically enter the manufacturing sector. Therefore, as far as possible, prices are on a delivered into store basis. Price series relate to goods of fixed specifications with the aim of incorporating in the index price changes for representative materials of constant quality.

Prices collected are mainly monthly average prices rather than prices relating to the mid-point of the month. This is because there is a high frequency of price change for many of the materials included in the index, and prices as at one point of time within a month are not always representative of average prices for the month. Price series for electricity and gas are based on the average realised cost per unit of actual monthly sales to 'industrial' users by selected major suppliers and are therefore subject to fluctuations due to changing usage patterns. In general, prices recorded in the index for a given month refer to materials delivered to manufacturers in that month.

Prices of transferred goods

Transfers which do not take place on the open market present problems in the measurement of price change. An example is where a vertically-integrated enterprise extracts a mineral (mining activity) and also processes it (manufacturing activity). Since the material is transferred from one part of the enterprise to another there is usually no transaction price. In such instances various methods of imputing movements in market prices have been adopted. Depending on circumstances and the availability of data, these methods include using movements in opportunity cost (based, for example, on the price of the material in an established market) or movement in cost (based on expenses actually incurred in obtaining the material). Imputations of this kind enter partly into price series for items such as iron ore, bauxite, nickel and coal.

Seasonal items

In the case of seasonally produced items such as fruit and vegetables where deliveries do not occur over the whole year, the previous season's prices are in general repeated for the months outside the selling season until the subsequent season's prices become operative.

Index numbers

The index has been compiled for each month from July 1968 and for financial years from 1968-69 on the reference base year 1968-69. Index numbers for financial years are simple averages of the relevant monthly index numbers. Monthly index numbers will be found in the publication *Price Index of Materials Used in Manufacturing* (9.13) of 4 July 1975 and the supplement to this publication and subsequent issues.

PRICE INDEX OF MATERIALS USED IN MANUFACTURING INDUSTRY: GROUP INDEX NUMBERS BASED ON INDUSTRY OF ORIGIN

(Base of each index: Year 1968-69=100.0) (a)

| | | | Imported | materials | | | Home pro | | | | | |
|------------|--------|---|------------------|-----------|--------------------|--------------------------------|------------------|----------------------------|--------|------------------|--|---------|
| | | | Agri- culture | Mining | Manu- facturing | Total imported materials | Agri- culture | Forestry and fishing | Mining | Elec- tricity | Total home produced materials | All |
| Value weig | ht (%. |) | 1.92% | 4.17% | 21.07% | 27.16% | 47.04% | 1.12% | 18.92% | 5.76% | 72.84% | 100.00% |
| 1968-69 | | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | |
| 1969-70 | | | 104.5 | 96.2 | 101.0 | 100.5 | 101.6 | 103.5 | 108.8 | 99.7 | 103.4 | |
| 1970-71 | | | 101.8 | 105.3 | 102.0 | 102.5 | 99.3 | 110.1 | 98.7 | 99.4 | 99.3 | |
| 1971-72 | | | 95.5 | 112.0 | 103.4 | 104.1 | 103.5 | 120.9 | 97.1 | 101.7 | 102.0 | |
| 1972-73 | | | 105.2 | 109.1 | 104.4 | 105.2 | 125.3 | 131.0 | 100.4 | 103.7 | 117.2 | |
| 1973-74 | | | 130.6 | 196.3 | 113.1 | 127.1 | 147.9 | 157.3 | 119.0 | 109.9 | 137.6 | 134.7 |
| 1974-75 | | | 149.3 | 357.8 | 149.5 | 181.5 | 132.2 | 187.8 | 129.0 | 124.6 | 131.6 | |

PRICE INDEX OF MATERIALS USED IN MANUFACTURING INDUSTRY: GROUP INDEX NUMBERS BASED ON STANDARD INTERNATIONAL TRADE CLASSIFICATION

(Base of each index: Year 1968-69=100.0) (a)

| | | | Manufacture | ed materials (im | ported) | Other materials (imported and home produce | | | | | |
|---|--------|----------|--|--|---|---|--|---|---|--|--|
| *** | | | Chemicals | Metal manu- factures, components for transport equipment and machinery | Other manufactured materials | Food, live animals and tobacco | Crude materials (excl. fuels) | Electricity, gas and fuels | All groups | | |
| Value weig | ght (% | <u>ဂ</u> | 6.67% | 5.21% | 5.76% | 45.87% | 20.66% | 15.83% | 100.00% | | |
| 1968-69 1969-70 1970-71 1971-72 1972-73 1973-74 1974-75 | | : | 100.0 98.1 97.2 95.6 91.4 96.3 141.9 | 100.0 103.9 108.4 114.9 119.3 118.6 148.7 | 100.0 99.4 98.2 97.8 97.6 106.1 137.4 | 100.0 102.4 100.9 104.7 122.9 145.9 132.4 | 100.0 108.2 99.9 100.9 116.0 140.7 149.3 | 100.0 98.4 97.3 99.1 99.1 126.2 179.5 | 100.0 102.6 100.1 102.6 113.9 134.7 145.1 | | |

⁽a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index numbers to the nearest whole number.

PRICE INDEX OF MATERIALS USED IN MANUFACTURING INDUSTRY PERCENTAGE CONTRIBUTIONS TO THE INDEX AGGREGATE (a) GROUPS BASED ON INDUSTRY OF ORIGIN

| | | | | | | | | Percentage con | tribution of- |
|---------------------|-------|-------|-------|-------|------|---|---|-----------------------|------------------------|
| Category, group and | l ite | n | | | | | • | Item to All groups | Group to All groups |
| IMPORTED MAT | ERI | ALS- | _ | | | | | | |
| Agriculture | | | | | | | | | 1.92 |
| Coffee beans | | | | | | | | 0.33 | |
| Cocoa beans | • | • | • | • | • | • | • | 0.36 | |
| Tobacco . | • | • | • | • | • | • | • | 0.62 | |
| Natural rubber | • | • | • | • | • | • | • | 0.53 | |
| Jute . | • | • | • | • | • | • | • | 0.10 | |
| Sisal hemp | • | • | • | • | • | • | • | 0.08 | |
| Sisai nemp | • | • | • | • | • | • | • | 0.08 | |
| Mining | | | | | | | | | 4.17 |
| Crude petroleur | m | | | | | | | 2.71 | |
| Phosphate rock | | | | | | | | 0.90 | |
| Sulphur . | | | - | | • | | | 0.33 | |
| Asbestos . | | | | · | | | | 0.23 | |
| Manufacturing | | | • | - | - | | | | 21.07 |
| Cotton fabric | | | | | | | | 1.40 | |
| Synthetic fabric | | • | • | • | • | • | • | 1.55 | |
| Synthetic yarn | | • | • | • | • | • | • | 0.94 | |
| | | • | • | • | • | • | • | 0.42 | |
| Synthetic fibre | • | • | • | • | • | • | • | 0.42 | |
| Hessian . | | | • | | • | • | • | 2.65 | |
| Chemical eleme | | | | nas | • | • | • | 2.04 | |
| Plastic material | | | | • | | • | • | 0.67 | |
| Dyeing, tanning | | | | | | • | • | 0.67 | |
| Medicinal and | | | | nater | iais | • | • | | |
| Essential oils ar | | eanse | rs | • | • | • | • | 0.26 | |
| Other chemicals | | • | • | • | • | ٠ | • | 0.88 | |
| Synthetic rubbe | r | • | • | • | • | • | • | 0.30 | |
| Fuel oil . | • | | ٠ | ٠. | • | • | • | 0.59 | |
| Unassembled ca | | | and t | racto | rs . | • | ٠ | 2.98 | |
| Automotive par | ts | • | • | • | • | • | • | 0.95 | |
| Bearings . | • | • | • | • | • | • | • | 0.34 | |
| Diesel engines | | • | • | • | • | • | • | 0.28 | |
| Electric motors | • | • | • | ٠ | • | • | • | 0.19 | |
| Float glass | • | | • | • | • | • | • | 0.17 | |
| Tyres . | | • | • | • | • | • | • | 0.12 | |
| Softwood . | • | | • | • | • | | • | 0.93 | |
| Hardwood | | • | | • | • | | • | 0.18 | |
| Printing papers | | | • | | • | | • | 1.35 | |
| Woodpulp | | • | .• | • | • | • | • | 0.66 | |
| Iron and steel p | | s and | pipes | • | • | • | • | 0.36 | |
| Iron and steel c | cils | | • | • | • | • | • | 0.11 | |
| Vegetable oils | | • | | • | • | • | • | 0.35 | |

PRICE INDEX OF MATERIALS USED IN MANUFACTURING INDUSTRY PERCENTAGE CONTRIBUTIONS TO THE INDEX AGGREGATE (a) GROUPS BASED ON INDUSTRY OF ORIGIN—continued

| | | | | | Perc | entage con | tribution of— |
|-----------------------------|-----|-----|---|---|------|------------|------------------------|
| Category, group and item | | | | | All | Item to | Group to All groups |
| HOME PRODUCED MATE | RIA | LS— | | | | | |
| Agriculture | | | | | | | 47.04 |
| Cattle and calves . | | | | | | 15.58 | |
| Lambs | | | | | | 2.69 | |
| Sheep | | | | | | 2.74 | |
| Pigs | | | | | | 2.39 | |
| Chickens | | | | | | 1.80 | |
| Milk | | | | | | 7.86 | |
| Wool | | | | | | 1.79 | |
| Eggs | | | | | | 0.14 | |
| Wheat | | | | | | 2.93 | |
| Barley | | | | | | 0.74 | |
| Rice | | | | | | 0.45 | |
| Sorghum | | | | | | 0.21 | |
| Oats | | | - | | | 0.17 | |
| Maize | | | | | · | 0.12 | |
| Grapes | • | ÷ | • | ÷ | | 0.56 | |
| Peaches | • | Ċ | • | • | · | 0.24 | |
| Pineapples | • | • | • | • | • | 0.21 | |
| D | • | • | • | • | • | 0.16 | |
| ^ | • | • | • | • | • | 0.10 | |
| Oranges Other fruit | • | • | • | • | • | 0.13 | |
| T | • | • | • | • | • | 0.27 | |
| Peas | • | • | • | • | • | | |
| Potatoes | • | • | • | • | • | 0.15 | |
| Beans | • | • | • | • | • | 0.13 | |
| Other vegetables . | • | • | • | • | • | 0.14 | |
| Hops | ٠ | • | • | • | • | 0.06 | |
| Sugar cane | ٠ | • | • | | • | 3.58 | |
| Oilseeds | | • | | | | 0.32 | |
| Cotton | • | | | | | 0.28 | |
| Peanuts | | | | | | 0.15 | |
| Tobacco | | | | | | 0.84 | |
| Forestry and Fishing | | | | | | | 1.12 |
| Hardwood | | | | | | 0.43 | |
| Softwood | • | • | • | • | • | 0.04 | |
| Plantation pine | • | • | • | • | • | 0.19 | |
| Wood for pulp | • | • | • | • | • | 0.19 | |
| Fish | • | • | • | • | • | 0.16 | |
| | • | • | • | • | • | 0.10 | |
| Mining | | | | | | | 18.92 |
| Iron ore | | | | | | 2.59 | |
| Copper in concentrates | | | | | | 2.85 | |
| Nickel in concentrates | | | | | | 0.48 | |
| Silver-lead in concentrates | | | | | | 1.51 | |
| Zinc in concentrates . | | | | | | 0.65 | |
| Bauxite | | | | | | 0.92 | |
| Tin in concentrates . | | | | | | 0.38 | |
| Gold | | | | | | 0.46 | |
| Crude petroleum . | | | | | | 4.07 | |
| Coal and briquettes . | | | | - | | 1.60 | |
| Gas | | | | - | | 1.10 | |
| Gravel | | | | • | | 0.86 | |
| Sand | | | | - | | 0.54 | |
| Clay | | • | • | • | • | 0.43 | |
| Limestone | • | • | • | • | • | 0.32 | |
| Gypsum | • | • | • | • | • | 0.32 | |
| | • | • | • | • | • | 0.10 | |
| Electricity | | | | | | | 5.76 |
| Electricity | | | | | | 5.76 | |
| | | | | | | 100.0 | 100.0 |
| | | | | | | 400.U | 100.0 |

⁽a) The percentage contributions to the index aggregate are based on estimated usage in 1971-72 valued at relevant prices in 1968-69.

PRICE INDEX OF MATERIALS USED IN MANUFACTURING INDUSTRY PERCENTAGE CONTRIBUTIONS TO THE INDEX AGGREGATE (a) GROUPS BASED ON STANDARD INTERNATIONAL TRADE CLASSIFICATION (S.T.I.C.)

| | | | | | | | 1 | Percentage con | tribution of— |
|--|-------------------------------------|-----------------|---------|-------------|------|------|------|---|------------------------|
| Group and item | | | | | | | _ | Item to All groups | Group to All groups |
| MANUFACTU | RED M | IATE | RIAL | S (IM | POR' | TED) | (b)- | _ | |
| Chemicals | | | | | | | | | 6.67 |
| Chemical elen | nents an | d cor | npoun | ds | | | | 2.65 | |
| Dyeing, tanni | ng and | colou | ring m | aterial | ls . | | | 0.67 | |
| Medicinal and | pharm | aceut | ical m | aterial | s. | | | 0.17 | |
| Essential oils | and clea | nsers | | | | | | 0.26 | |
| Plastic materi | als and | resins | | | | | | 2.04 | |
| Medicinal and Essential oils Plastic materi Other chemica | als . | | | | | | | 8.88 | |
| | | | | | | | | | |
| Metal manufactu equipment and m | | | nis jor | iransp | UTI | | | | 5.21 |
| Iron and steel | | | inac | | | | | 0.36 | 3.21 |
| Iron and steel | | | | • | • | • | • | 0.30 | |
| Pearings | COHS | • | • | • | • | • | • | 0.34 | |
| Bearings . Diesel engines | : | • | : | • | • | • | • | 0.28 | |
| Electric motor | | • | • | • | • | : | • | 0.19 | |
| Unassembled | | icke s | and tra | ictors | • | | • | 2.98 | |
| Automotive p | | | | ctors. | • | : | • | 0.95 | |
| - | | | | • | • | • | • | 3.75 | |
| Other manufactu | red mat | erials | | | | | | | <i>5.76</i> |
| Printing paper | | • | • | • | • | • | • | 1.35 | |
| Cotton fabric | | • | • | • | • | • | • | 1.40 | |
| Synthetic fabr | IC . | • | • | • | • | • | • | 1.55 | |
| Synthetic yarr | ١. | • | • | • | • | • | • | 0.94 | |
| Hessian . | • | • | • | • | • | • | • | 0.23 | |
| | | | | | | | | 0.17 | |
| Float glass . | • | • | • | | | | | | |
| Tyres | • | | : | | • | • | • | 0.12 | |
| Tyres OTHER MATI | ERIALS c)— | S (IM | | ED A | AND | но | ME | 0.12 | 45.8 |
| Tyres OTHER MATI PRODUCED) (Food, live anima | ERIALS c)— Is and to | S (IM | o | | | | ME | | 45.8 |
| Tyres OTHER MATIPRODUCED) (Food, live anima Cattle and cal | . ERIALS c)— is and to ves . | S (IM | | ED A | AND | | ME | 15.58 | 45.8 |
| Tyres OTHER MATIPRODUCED) (Food, live anima Cattle and cal Lambs . | . ERIALS c)— is and to ves . | S (IM | o | | | | ME | 15.58 2.69 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep | . ERIALS c)— is and to ves . | S (IM | o | : | | | ME | 15.58 2.69 2.74 | 45.87 |
| Tyres OTHER MATIPRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs | . ERIALS c)— is and to ves . | S (IM | o | | | | ME | 15.58 2.69 2.74 2.39 | 45.87 |
| Tyres OTHER MATIPRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs Chickens | . ERIALS c)— is and to ves . | S (IM | o | : | | | ME | 15.58 2.69 2.74 2.39 1.80 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs Chickens . Milk | ERIALS c)— Is and to ves | S (IM | o | · · · | | | ME | 15.58 2.69 2.74 2.39 1.80 7.86 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs Chickens . Milk Eggs | . ERIALS c)— is and to ves . | S (IM | o | : | | | ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens Milk Eggs Fish | ERIALS c)— Is and to ves . | S (IM | o | | | | ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs Chickens . Milk Eggs Fish Wheat . | ERIALS c)— Is and to ves | S (IM | | | | | ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs Chickens . Milk Eggs Fish Wheat . Barley | ERIALS c)— Is and to ves . | S (IM | o | | | | ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens . Milk Eggs Fish Wheat . Barley . Rice | ERIALS His and to ves . | 6 (IM obacco | o | | | | ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 | 45.8 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs Chickens . Milk Eggs Fish Wheat . Barley . Rice . Sorghum . | ERIALS His and to ves . | 6 (IM obacco | | | | | . ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 | 45.8 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens . Milk Eggs Fish Wheat . Barley . Rice Sorghum . Oats | ERIALS His and to ves . | 6 (IM obacco | o | | | | ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs | ERIALS c)— Is and to ves | S (IM | o | | | | . ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs | ERIALS c)— Is and to ves | S (IM obacco | o | | | | . ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens Milk Eggs Fish Wheat . Barley . Rice Sorghum . Oats Maize Grapes . Peaches . | ERIALS c)— Is and to ves | S (IM | | | | | . ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 | 45.8 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens . Milk Eggs Fish Wheat Barley Rice Sorghum . Oats Maize Grapes Peaches . Pineapples . | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 | 45.8 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs | ERIALS c)— Is and to ves | S (IM obacco | | | | | . ME | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.16 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens . Milk Eggs Fish Wheat . Barley . Rice Sorghum . Oats Maize Grapes . Peaches . Pineapples . Pears | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.16 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens . Milk Eggs Fish Wheat . Barley . Rice Sorghum . Oats Maize Grapes . Peaches . Pineapples . Pears . Oranges . Other fruit . | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.16 0.13 | 45.8 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens . Milk Eggs Fish Wheat . Barley . Rice Sorghum . Oats Maize Grapes . Peaches . Pineapples . Pears Oranges . Other fruit . Peas | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.13 0.27 0.21 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.13 0.27 0.21 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs Sheep Pigs Chickens Milk Eggs Fish Wheat . Barley . Rice Sorghum . Oats Maize Grapes . Peaches . Pineapples . Pears Oranges . Other fruit . Peas Potatoes . Beans Other vegetab | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.13 0.27 0.21 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.16 0.13 0.27 0.21 | 45.8 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs . Sheep Pigs Chickens . Milk | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.13 0.27 0.21 0.15 0.13 | 45.87 |
| Tyres OTHER MATI PRODUCED) (Food, live anima Cattle and cal Lambs | ERIALS c)— Is and to ves | S (IM | | | | | | 15.58 2.69 2.74 2.39 1.80 7.86 0.14 0.16 2.93 0.74 0.45 0.21 0.17 0.12 0.56 0.24 0.21 0.16 0.13 0.27 0.21 0.15 0.13 | 45.87 |

PRICE INDEX OF MATERIALS USED IN MANUFACTURING INDUSTRY PERCENTAGE CONTRIBUTIONS TO THE INDEX AGGREGATE (a) GROUPS BASED ON STANDARD INTERNATIONAL TRADE CLASSIFICATION (S.I.T.C.)—continued

| | | | | | | | | Percentage con | tribution of— |
|----------------------|-------|---------|-----|---|---|---|---|-----------------------|------------------------|
| Group and item | | | | | | | • | Item to All groups | Group to All groups |
| Crude materials (ex | clud | ing fue | ls) | | | | | | 20.66 |
| Peanuts . | | | | | | | | 0.15 | |
| Oilseeds . | | | | | | | | 0.32 | |
| Natural rubber | | | | | | | | 0.53 | |
| Synthetic rubber | | | | | | | | 0.30 | |
| Hardwood . | | | | | | | | 0.61 | |
| Softwood . | | | | | | | | 0.97 | |
| Plantation pine | | | | | | | | 0.19 | |
| Wood for pulp | | | | | | | | 0.30 | |
| Woodpulp . | | | | | | | | 0.66 | |
| Wool | | | | | | | | 1.79 | |
| Jute | | | | | | | | 0.10 | |
| Sisal hemp . | | | | | | | | 0.08 | |
| Cotton . | | | | | | | | 0.28 | |
| Synthetic fibre | | | | | | | | 0.42 | |
| Gravel . | | | | | | | | 0.86 | |
| Sand | | | | | | | | 0.54 | |
| Clay | | | | | | | | 0.43 | |
| Limestone . | | | | | | | | 0.32 | |
| Gypsum . | | | | | | | | 0.16 | |
| Asbestos . | | | | | | | | 0.23 | |
| Phosphate rock | | | | | | | | 0.90 | |
| Sulphur . | | | | | | | | 0.33 | |
| Iron ore . | | | | | | | | 2.59 | |
| Copper in concen | trat | es . | | | | | | 2.85 | |
| Nickel in concent | rate | s. | | | | | | 0.48 | |
| Silver-lead in con | cent | rates | | | | | | 1.51 | |
| Zinc in concentra | tes | | | | | | | 0.65 | |
| Bauxite . | | | | | | | | 0.92 | |
| Tin in concentrate | es | | | | | | | 0.38 | |
| Gold | | | | | | | | 0.46 | |
| Vegetable oils | | | | | | | | 0.35 | |
| Electricity, gas and | fuels | 5 | | | | | | | 15.83 |
| Crude petroleum | | | | | | | | 6.78 | |
| Fuel oil . | | | | | | | | 0.59 | |
| Electricity . | | | | | | | | 5.76 | |
| Gas | | | | | | | | 1.10 | |
| Coal and briquett | tes | • | • | • | • | • | • | 1.60 | |
| | | | | | | | | 100.00 | 100.00 |

⁽a) The percentage contributions to the index aggregate are based on estimated usage in 1971-72 valued at relevant prices in 1968-69. (b) Excluding the manufactured imported crude materials listed in footnote (c.). (c) Includes imported fuel oil and the following imported crude materials: synthetic rubber, hardwood, softwood, wood pulp, synthetic fibre, vegetable oils.

Price Index of Metallic Materials used in the Manufacture of Fabricated Metal Products

This index was introduced in December 1972. The index includes important metallic materials selected and combined in accordance with a weighting pattern reflecting value of usage as reported at the 1968-69 Census of Manufacturing Establishments for establishments classified to the Fabricated Metal Products Sub-division of Manufacturing Industry (Australian Standard Industrial Classification Sub-division 31).

The reference base of the index is the year 1968-69 = 100.0. The index is a fixed weights index and is calculated by the method know as 'the weighted arithmetic mean of price relatives'.

Prices for each of the items relate to representative goods of fixed specification collected from a selection of representative sources. The price series used are obtained monthly, by mail collection, from major Australian manufacturers of the relevant materials. In the main prices are collected as at the mid-point of each month.

The index has been compiled for each month from July 1968, and for financial years from 1968-69. Index numbers for financial years are simple averages of the relevant monthly index numbers.

Further information concerning the method of compiling the index, as well as more detailed group index numbers and the weighting pattern of the index, will be found in the publication *Price Indexes of Metallic Materials* (9.10) of 14 December 1972, as well as in *Labour Report* No. 58, 1973, and in Year Book No. 60, 1974.

PRICE INDEX OF METALLIC MATERIALS USED IN THE MANUFACTURE OF FABRICATED METAL PRODUCTS—GROUP INDEX NUMBERS

(Base of each Index: Year 1968-69 = 100.0) (a)

| | | | | Iron and steel | Aluminium | Copper and brass | Other metallic materials | All groups | | |
|------------------|--|--|--|-------------------|-----------|---------------------|--------------------------------|------------|--------|--|
| Value weight (%) | | | | | 83.2% | 8.9% | 5.7% | 2.2% | 100.0% | |
| 1970–71 | | | | | 106.7 | 104.5 | 106.5 | 90.9 | 106.2 | |
| 1971-72 | | | | | 116.2 | 106.8 | 106.2 | 83.6 | 114.1 | |
| 1972-73 | | | | | 122.6 | 109.2 | 106.6 | 98.7 | 120.0 | |
| 1973-74 | | | | | 131.7 | 118.2 | 138.1 | 151.3 | 131.3 | |
| 1974-75 | | | | | 161.1 | 141.9 | 131.1 | 192.4 | 158.4 | |

⁽a) Figures are published to one decimal place to avoid distortions that would occur in rounding off the index numbers to the nearest whole number.

Price Indexes of Copper Materials used in the Manufacture of Electrical Equipment

This special purpose measure was introduced in December 1972. Prices for each item included in the index relate to representative goods of fixed specification and are collected each month from major Australian manufacturers of the relevant materials. The index has been compiled for each month since July 1968.

A description of this index is given in *Labour Report* No. 57, 1972. Index numbers are shown in the monthly publication *Price Indexes of Metallic Materials* (9.10).

PRICE INDEXES OF COPPER MATERIALS USED IN THE MANUFACTURE OF ELECTRICAL EQUIPMENT INDEX NUMBERS FOR SELECTED ACTIVITIES

(Base of each Index: Year 1968-69 = 100.0) (a)

| | | | | Electric motors and motor control equipment | High voltage and low voltage switchgear | Distribution transformers | Power transformers | General transformers |
|---------|-----|---|---|--|--|------------------------------|-----------------------|-------------------------|
| 1970-71 | | | _ | 104.0 | 105.7 | 101.3 | 100.3 | 103.0 |
| 1971-72 | | · | • | 104.8 | 104.9 | 101.3 | 95.2 | 104.0 |
| 1972-73 | | · | | 110.4 | 111.2 | 105.7 | 98.3 | 109.4 |
| 1973-74 | · · | ÷ | | 136.0 | 148.0 | 130.1 | 128.0 | 137.0 |
| 1974-75 | · | ÷ | : | 133.1 | 137.1 | 122.4 | 116.3 | 128.9 |

⁽a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index members to the nearest whole number.

Price Index of Electrical Installation Materials

This special purpose index was introduced in 1964, and index numbers were published at quarterly intervals from August 1959 to February 1969, when monthly publication commenced. In addition to its use in connection with the Bureau's constant price estimates in the national accounting field, the index has a direct value as a measure of changes in aggregate cost of materials used in an important part of the building industry (other than house building).

A description of this index is given in *Labour Report* No. 56, 1971 and in Year Book No. 58, 1972, pages 239-40. Index numbers are published monthly in *Price Index of Electrical Installation Materials* (9.5).

PRICE INDEX OF ELECTRICAL INSTALLATIONS MATERIALS GROUP INDEX NUMBERS

(Base of each Index: Year 1959-60 = 100.0) (a)

| | | | | | | Conductors | Conduit and Conductors accessories | | All groups | |
|------------------|--|--|---|---|--|------------|--|-------|------------|-------|
| Value weight (%) | | | | | | | 40% | 25% | 35% | 100% |
| 1970–71 | | | • | • | | | 128.4 | 112.8 | 129.2 | 124.8 |
| 1971–72 | | | | | | | 127.6 | 120.9 | 137.7 | 129.1 |
| 1972-73 | | | | | | | 133.5 | 126.8 | 144.2 | 135.5 |
| 1973-74 | | | | | | | 165.1 | 138.5 | 156.6 | 155.5 |
| 1974-75 | | | | | | | 168.2 | 169.6 | 192.3 | 177.0 |

⁽a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index numbers to the nearest whole number.

Melbourne Wholesale Price Index

An index of Melbourne wholesale prices was first compiled in 1912 and ceased being published in 1961. It related chiefly to basic material and foods weighted in accordance with consumption in the years immediately preceding that year. Neither the list of items nor the weighting was varied, except for some changes in the building materials group in 1949. The series has some historical significance as a measure of changes, since the year 1861.

Prices of its component items are combined in the proportions in which they were in common use about the year 1910. A description of the index and a list of the commodities included in it were published in *Labour Report* No. 38, 1949, pages 43-5. Index numbers up to the year 1961 were published in Year Book No. 48, 1962.

Wholesale Price (Basic Materials and Foodstuffs) Index

General publication of this index was discontinued with the issue of index numbers for the month of December 1970. Index numbers up to that period may be found in the mimeographed bulletin Wholesale Price (Basic Materials and Foodstuffs) Index (9.4) or in Labour Report No. 55, 1970.

The index related to commodities priced in their primary or basic form wherever possible and as nearly as might have been at the point where they first made effective impact on the local price structure. With a few exceptions, prices were from Melbourne sources. The weights were based on estimates of the average annual consumption of the commodities in Australia during the period 1928-29 to 1934-35 inclusive.

A list of the commodities and other information concerning the Wholesale Price (Basic Materials and Foodstuffs) Index is given in *Labour Report* No. 53, 1967, pages 38-41.

EXPORT PRICE INDEXES

An annual index of export prices has been published by the Bureau since its inception. Brief descriptions of indexes issued between 1901 and 1962 (that is, prior to the introduction of the current Export Price Index) are shown in Year Book No. 55, 1969, pages 256-7.

The current Export Price Index

The current Export Price Index was first published in October 1962, but index numbers were compiled back to July 1959. The reference base of this index is: year 1959-60 = 100.0. Index numbers from July 1969 have been compiled on an interim basis which incorporates a re-weighting of the items contained in the original index, and the inclusion of some additional items. This interim basis was introduced pending completion of a comprehensive review and re-basing of the index as a whole.

The Export Price Index is a fixed-weights index, and its purpose (as was that of the previous fixed-weights index) is to provide comparisons monthly, over a limited number of years, of the level of export prices of the selected items, making no allowance for variations in quantities exported. The index numbers are thus measures of price change only. The price series used in the index relate to specified standards for each commodity and in most cases are combinations of prices for a number of representative grades, types, etc.

The index is calculated by the method known as 'the weighted arithmetic mean of price relatives'. Index numbers for each of the groups and 'All groups' are shown in the following table. The yearly index numbers are simple averages of the twelve monthly index numbers in each year.

Further information concerning the compiling of the index, as well as more detailed group index numbers, will be found in the bulletin *Export Price Index* (9.2) of October 1962, and in Year Book No. 60, 1974, pages 258-60.

EXPORT PRICE INDEX NUMBERS (Base of each Index: Year 1959-60 = 100.0)

| Period | Wool | Meats | Dairy produce | Cereals | Dried and canned fruits | Sugar | Hides and tallow | Metals and coal (a) | Gold | All groups |
|---------|----------|-------|------------------|---------|----------------------------------|-------|------------------------|------------------------------|------|---------------|
| 1970–71 | 67 | 152 | 88 | 100 | 102 | 113 | 94 | 139 | 109 | 101 |
| 1971-72 | 72 | 147 | 135 | 99 | 103 | 127 | 96 | 138 | 126 | 104 |
| 1972-73 | 179 | 178 | 119 | 102 | 106 | 136 | 139 | 142 | 180 | 134 |
| 1973-74 | 172 | 201 | 109 | 184 | 152 | 176 | 161 | 196 | 289 | 160 |
| 1974-75 | 121 | 132 | 127 | 256 | 176 | 378 | 141 | 263 | 391 | 181 |

⁽a) Comprises coal, iron and steel, copper, zinc, lead and silver. Does not include iron ore, bauxite, alumina and mineral sands, which, however, have been included in the 'All groups' index from July 1969.

Link between current and previous indexes

In order to show approximate movements in export prices over a long period, the 'All groups' indexes of the successive series have been linked together at the earliest year for which each of the indexes was compiled. The table below shows this linked series and a long-term price index for wool which is the most important single component in the movement of the 'All groups' index.

EXPORT PRICE INDEX NUMBERS—LINKED SERIES 1936-37 TO 1972-73

(Base of each Index: Year 1959-60 = 100)

| All groups | Wool | | | Period | All groups | Wool | | Period |
|---------------|------|---|----|------------|---------------|------|----------|---------|
| 117 | 136 | • | | 1956–57 | 30 | 29 | <u> </u> | 1936-37 |
| 102 | 111 | | | 1957-58 | 27 | 23 | | 1937–38 |
| 90 | 85 | | | 1958-59 | 22 | 19 | | 1938–39 |
| 100 | 100 | | | 1959-60 | 26 | 23 | | 1939–40 |
| 95 | 92 | | | 1960-61 | 28 | 24 | | 1940–41 |
| 96 | 97 | | | 1961-62 | 28 | 24 | | 1941-42 |
| 101 | 104 | | | 1962-63 | 30 | 28 | | 1942–43 |
| 114 | 120 | | | 1963-64 | 31 | 28 | | 1943-44 |
| 105 | 102 | | | 1964–65 | 34 | 28 | | 1944–45 |
| 107 | 107 | | | 1965-66 | 39 | 28 | | 1945-46 |
| 105 | 103 | | | 1966–67 | 54 | 41 | | 1946–47 |
| 100 | 95 | | | 1967-68 | 75 | 68 | | 1947-48 |
| 102 | 99 | | | 1968-69 | 88 | 86 | | 1948-49 |
| 103 | 87 | | ١. | 1969-70(a) | 101 | 111 | | 1949–50 |
| 101 | 67 | | | 1970-71 | 173 | 235 | | 1950-51 |
| 104 | 72 | | | 1971-72 | 125 | 133 | | 1951-52 |
| 134 | 179 | | | 1972-73 | 128 | 145 | | 1952-53 |
| 160 | 172 | | | 1973-74 | 125 | 145 | | 1953-54 |
| 181 | 121 | | | 1974-75 | 114 | 127 | | 1954-55 |
| | | | | | 105 | 109 | | 1955-56 |

(a) Interim series linked as at June 1969.

WAGES, EARNINGS AND HOURS

Arbitration and Wages Boards Acts and associated legislation

Summaries of the operation of Federal and State Acts regulating rates of pay, hours and other conditions of employment were first compiled for the year 1913 and particulars for this and subsequent years have appeared in the annual *Labour Report*. This report summarises the position up to the end of 1975 or in some cases early 1976.

Federal industrial legislation and tribunals

Under paragraph (xxxv) of Section 51 of the Commonwealth Constitution, the Commonwealth Parliament is empowered to make laws with respect to 'conciliation and arbitration for the prevention and settlement of industrial disputes extending beyond the limits of any one State'. In 1904 the Conciliation and Arbitration Act was passed by the Commonwealth Parliament and this Act with amendments has been in operation since then.

In addition to this 'conciliation and arbitration' power the Commonwealth Parliament can legislate concerning conditions of employment for its own employees and for employees in Australian Territories. Under the interstate and overseas trade and commerce power (paragraph (i) of section 51 of the Constitution) the Parliament can legislate directly in respect of industries such as the maritime and stevedoring industries. In times of national emergency the defence power of the Constitution (paragraph (vi) of section 51) enables Parliament to have direct control over all industry.

The Conciliation and Arbitration Act provides for the separation of the judicial functions from the conciliation functions and for the establishment of the Australian Industrial Court to deal with judicial matters and the Australian Conciliation and Arbitration Commission to deal with the functions of conciliation and arbitration under the Act. A summary of the main provisions of the Act operative to the end of 1975 is given in the following paragraphs.

The Australian Industrial Court is a superior court of record comprising a Chief Judge and not more than nine other Judges. The Court carries out the judicial functions associated with the settlement of disputes such as determining questions of law referred by the Commission or the

Registrar, hearing complaints against employers for dismissing employees because of union activities or arbitration work, interpreting awards, determining eligibility for membership of an organisation, determining questions relating to rules of an organisation, enquiring into allegations or irregularities in the conduct of elections conducted by organisations, and hearing complaints of breaches of awards and ordering compliance with awards and orders of the Commission. In certain circumstances the jurisdiction of the Court is exercised by a bench of not less than three Judges—in other cases by a single Judge.

The Australian Conciliation and Arbitration Commission consists of a President, Deputy Presidents and Commissioners. The President is required to have qualifications for judicial appointment. The other Presidential Members must have similar qualifications; or must have had experience at a high level in industry, commerce, industrial relations or the service of a government or government authority; or must have obtained a degree or similar qualification in law, economics, industrial relations or some other relevant field of study. Members of the Commission are appointed by the Commonwealth Government and may hold office until 65 years of age.

The Commission carries out its functions of conciliation and arbitration through panels or task forces. The President assigns an industry or a group of industries to a panel consisting of a Presidential Member and one or more Commissioners.

When the Commission receives notification of a dispute, or of one which is likely to occur, a member of the appropriate panel takes steps to prevent or settle the dispute. Negotiation may take place between the parties outside the Commission or under the supervision of the Commission. If the parties reach agreement they may make a memorandum of their agreement and have it certified by the Commission. Some issues in dispute may be resolved by agreement and others determined by arbitration by the Commission.

Certain matters cannot be determined by a single member of the Commission. Those matters which must be determined by a Full Bench of the Commission, consisting of a number of Presidential Members and Commissioners, include standard hours, national wage cases, the minimum wage, equal pay principles, annual leave and long service leave. Full Benches of the Commission also hear appeals from decisions of single members and deal with references from single members. Appeals and references from the Public Service Arbitrator or Deputy Arbitrators are heard by Full Benches. When matters relating to appeals or references under both or either of the Conciliation and Arbitration Act and the Public Service Arbitration Act are being heard, the Commission may sit in joint session (i.e. comprised of persons constituting the Commission in the separate matters) to take evidence and hear arguments. In any proceedings before a Full Bench, the Minister may, on behalf of the Commonwealth Government, intervene in the public interest. Others may apply to the Commission for leave to intervene which may be granted if the Commission thinks that the person or organisation should be heard.

The Act provides that a member of the Commission assigned by the President should handle industrial matters in the maritime industries and the stevedoring industry, other than those matters that must be dealt with by a Full Bench.

The jurisdiction of the Commission is limited to conciliation and arbitration of interstate industrial disputes between employers and employees. The employees must be engaged in employment that is 'industrial' in character. It has been held, for example, that school teachers, nurses, police and fire-fighters employed by government authorities are not engaged in 'industrial' employment. However, in the case of employees in the Northern Territory and the Australian Capital Territory the Commission has jurisdiction to settle industrial disputes whether or not the employees are engaged in an *industry* in the constitutional sense of the word.

The Conciliation and Arbitration Act provides that where a State law, or an order, award, decision or determination of a State industrial tribunal is inconsistent with or deals with a matter dealt with in an award of the Commission, the latter shall prevail and the former, to the extent of the inconsistency or in relation to the matter dealt with, shall be invalid.

Wages, hours of work and other conditions of employment of Commonwealth Government employees are regulated by the Australian Public Service Arbitrator and the Deputy Public Service Arbitrators under powers conferred by the *Public Service Arbitration Act* 1920–1973. Appeals and references from the Arbitrator or the Deputy Arbitrators may be made to the Australian Conciliation and Arbitration Commission.

The Flight Crew Officers' Industrial Tribunal is empowered to prevent or settle industrial disputes involving pilots, navigators and flight engineers of aircraft. The tribunal was established in February 1968 under provisions of the Conciliation and Arbitration Act.

The Coal Industry Tribunal was established under the Australian Coal Industry Act 1946 and the New South Wales Coal Industry Act, 1946 and is empowered to consider interstate disputes and New South Wales disputes in the coal mining industry.

State industrial tribunals

New South Wales. The principal authority is the Industrial Commission of New South Wales, which consists of a President and not more than seven other Judges. Subsidiary tribunals are Conciliation Commissioners and Conciliation Committees constituted for particular industries. Each Conciliation Committee consists of a Conciliation Commissioner as chairman and an equal number of representatives of employers and employees. Special Commissioners may be appointed. Wages, salaries and conditions of employment of State Government employees are regulated by determinations made by, or industrial agreements registered with, the Public Service Board of New South Wales.

Victoria. The authorities are separate Wages Boards for the occupations and industries covered, each consisting of a chairman and an equal number of representatives of employers and employees, and the Industrial Appeals Court presided over by a judge of the County Court. The conditions of employment of State Government employees are regulated by determinations or regulations of the Public Service Board, the Police Service Board and the Teachers Tribunal.

Queensland. The authorities consist of the Industrial Court of Queensland, which deals with the legal aspects of the system, and the Industrial Conciliation and Arbitration Commission of Queensland, which deals with conciliation and arbitration functions. The President of the Industrial Court is a Judge of the Supreme Court of Queensland. Not more than five Commissioners may be appointed to the Commission. The Commission is constituted by a Commissioner sitting alone or in the case of a Full Bench of the Commission by at least three Commissioners. The conditions of employment of State Government employees are regulated by awards, etc. of the Commission.

South Australia. The system of control consists of an Industrial Commission, an Industrial Court and Conciliation Committees. The Commission is composed of a President, two Deputy Presidents and Commissioners. The Commissioners are chairmen of Conciliation Committees consisting of an equal number of representatives of employers and employees. The Commission and Conciliation Committees make awards. The President and Deputy Presidents of the Commission are the President and Deputy Presidents, respectively, of the Industrial Court which deals with legal matters and workmen's compensation.

Rates of pay and other conditions of employment of State Government employees are determined by the Public Service Arbitrator and the Teachers Salaries Board.

Western Australia. The principal authorities comprise the Western Australian Industrial Commission consisting of seven Commissioners and the Western Australian Industrial Appeal Court consisting of three Supreme Court Judges. Awards may be made by a single Commissioner or by the Commission in Court Session consisting of three Commissioners. Appeals and references from single Commissioners are heard by the Commission in Court Session. Appeals from the Commission to the Industrial Appeal Court are limited to matters of law or jurisdiction. The Western Australian Coal Industry Tribunal, consisting of a chairman and two representatives each of employers and employees, has power to determine industrial matters in the coal mining industry. Decisions of the Tribunal may be reviewed by the Commission in Court Session. Wages and other conditions of employment of State Government employees are regulated by the Public Service Arbitrator, the Railways Classification Board and by determinations made under the Education Act, including determinations of the Government School Teachers Tribunal.

Tasmania. The authorities are Wages Boards for separate industries, comprising a Chairman (or Deputy Chairman) and an equal number of representatives of employers and employees. The Public Service Board and the Public Service Arbitrator regulate the wages and conditions of employment of State Government employees.

Incidence of industrial awards, determinations and collective agreements

A survey conducted in May 1974 showed the number and proportion of employees whose rates of pay and conditions of employment were varied in accordance with awards, determinations and collective agreements. Awards, etc. of Federal industrial arbitration authorities affected 39 per cent of employees (males 44 per cent, females 30 per cent), awards, etc. of State authorities affected 48 per cent of employees (males 41 per cent, females 62 per cent), unregistered collective agreements affected 1 per cent of employees, and 12 per cent of employees were not affected by awards, etc.

Results of this survey are published in *Incidence of industrial awards*, determinations and collective agreements (6.5) May 1974.

Rates of wage and hours of work

This section contains indexes (with base: year 1954 = 100) of minimum weekly and hourly rates of wage and standard hours of work for adult males and adult females for Australia and each State.

In the indexes there are fifteen industry groups for adult males and eight industry groups for adult females. For relevant periods these indexes replace cognate indexes (base: year 1911 = 1,000 for males and April 1914 = 1,000 for females) published in Year Books before No. 46, 1960. The current indexes are based on the occupation structure existing in 1954. Weights for each industry and each occupation were derived from two sample surveys made in that year. The first was the Survey of Awards in April 1954 which showed the number of employees covered by individual awards, determinations and collective agreements. This provided employee weights for each industry as well as a basis for the Survey of Award Occupations made in November 1954. This second survey showed the number of employees in each occupation within selected awards, etc. thereby providing occupation weights.

The industrial classification used in the current indexes, shown in the table on page 272, does not differ basically from the previous classification, the alterations being largely in the arrangement of classes. The former Pastoral, agricultural, etc. group and the domestic part of the Amusement, hotels, personal service, etc. group are excluded from the current indexes because of coverage difficulties.

The minimum wage rates and standard hours of work used in the current indexes are for representative occupations within each industry. They have been derived entirely from representative awards, determinations and collective agreements in force at the end of each month or quarter, commencing with March 1939 for adult males and March 1951 for adult females. Particulars have been available as at the end of each month for adult males from January 1957 and for adult females from July 1967. The index for adult males includes rates and hours for 3,415 award designations. However, as some of these designations are operative within more than one industry, or in more than one State, the total number of individual award occupations is 2,313. For adult females the corresponding numbers are 1,100 and 515. Using the industry and the occupation weights derived from the surveys described above, these rates and hours were combined to give weighted averages for each industry group for each State and Australia.

Because the indexes are designed to measure movements in prescribed minimum rates of 'wages' as distinct from 'salaries', those awards, etc. which relate solely or mainly to salary earners are excluded.

A more detailed description of the current indexes of minimum rates of wage and standard hours of work is given in the *Labour Report*, which also contains an extensive tabular presentation of the minimum rates of pay for adult males and females in the principal occupations in the capital city of each State. Further particulars of wage rates and index numbers will be found in mimeographed bulletins *Minimum Wage Rates*, March 1939 to June 1965, *Wage Rates Indexes*, June 1965 to June 1968 and *Wage Rates Indexes*, June 1968 to June 1972. Current figures are published in the monthly bulletins *Wage Rates and Earnings* and *Wage Rates Indexes* (*Preliminary Statement*).

Weekly wage rates—adult males

WEEKLY WAGE RATES: ADULT MALES, ALL GROUPS(a)

WEIGHTED AVERAGE MINIMUM WEEKLY RATES(b) PAYABLE FOR A FULL WEEK'S WORK

(EXCLUDING OVERTIME) AND INDEX NUMBERS OF WAGE RATES

| End of D | ecem | ber— | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust |
|----------|----------|----------|-------------|-------------|-------------|---------------|--------------|--------|--------|
| | | _ | | RATE | S OF WAG | E (\$) (c) | | | |
| 1950 . | <u> </u> | <u> </u> | 20.62 | 20.18 | 19.52 | 19.79 | 20.06 | 19.80 | 20.20 |
| 1960 . | | | 36.28 | 34.99 | 35.07 | 34.22 | 35.81 | 35.15 | 35.50 |
| 1970 . | | | 54.40 | 53.68 | 55.07 | 52.12 | 55.99 | 54.49 | 54.20 |
| 1974p | | | 105.51 | 105.15 | 109.16 | 103.32 | 101.04 | 106.02 | 105.42 |
| 1975p | | • | 117.72 | 116.84 | 122.01 | 115.01 | 111.73 | 116.93 | 117.37 |
| | | | | INI | DEX NUME | ERS | | | |
| | | (Base: | Weighted Av | erage Weekl | y Wage Rate | for Australia | a, Year 1954 | = 100) | |
| 1950 . | | | 73.0 | 71.4 | 69.1 | 70.1 | 71.0 | 70.1 | 71.5 |
| 1960 . | | | 128.5 | 123.9 | 124.2 | 121.2 | 126.8 | 124.5 | 125.7 |
| 1970 . | | | 192.6 | 190.1 | 195.0 | 184.6 | 198.2 | 192.9 | 191.9 |
| 1974p | | | 373.6 | 372.3 | 386.5 | 365.8 | 357.8 | 375.4 | 373.3 |
| 1975p | | - | 416.8 | 413.7 | 432.0 | 407.2 | 395.6 | 414.0 | 415.6 |

⁽a) Excludes rural industry. (b) As prescribed in awards, determinations and collective agreements. (c) The amounts shown should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends

The following table shows for Australia the weighted average minimum weekly rates of wage and index numbers in each industry group and for all groups (excluding rural industry) at the dates specified.

WEEKLY WAGE RATES: ADULT MALES, INDUSTRY GROUPS, AUSTRALIA
WEIGHTED AVERAGE MINIMUM WEEKLY RATES(a) PAYABLE FOR A FULL WEEK'S WORK
(EXCLUDING OVERTIME) AND INDEX NUMBERS OF WAGE RATES

| | | | | | En | d of Decen | nber— | | | |
|--|-------------------|---------|-------|-------|------|--|--|--|--|--|
| Industry Group | | | | | | 1950 | 1960 | 1970 | 1974p | 1975 |
| | |] | RAT | ES O | F W | AGE(b) | | | | |
| | | | | | (\$) | | | | | |
| Mining and quarrying(c) | | | | | | 25.96 | 41.47 | 60.83 | 122.79 | 145.9 |
| Manufacturing— | | | | | | 20 17 | 35.02 | 51.88 | 101.34 | 109.7 |
| Engineering, metals, vehicl Textiles, clothing and foot | | • | • | • | • | 20.17 | 34.04 | 50.92 | 92.22 | 106.0 |
| Food, drink and tobacco | | • | • | • | • | 19.74 | 35.22 | 52.98 | 101.45 | 113.7 |
| | • | • | • | • | • | 20.14 | 34.62 | 51.84 | 101.43 | 111.5 |
| Sawmilling, furniture, etc. | • | • | • | • | ٠ | 19.60 | | | | |
| Paper, printing, etc | • | • | • | • | • | 21.42 | 37.92 | 57.47 | 107.02 | 119.1 |
| Other manufacturing . | ٠ | • | ٠ | • | • | 19.76 | 34.72 | 52.34 | 101.38 | 112.5 |
| All manufacturing grou | ıps | • | | | | 20.08 | 35.05 | 52.36 | 101.02 | 111.2 |
| Building and construction | | | | | | 19.86 | 35.75 | 56.67 | 110.35 | 125. |
| Railway services | | | | • | | 19.58 | 34.65 | 51.32 | 101.94 | 110. |
| Road and air transport . | • | | | • | | 19.79 | 35.25 | 54.65 | 107.48 | 116.4 |
| Shipping and stevedoring(d) | • | | • | • | • | 19.66 | 34.46 | 60.54 | 118.23 | 144.1 |
| Communication | • | • | • | • | • | 21.33 | 38.49 | 68.95 | 130.75 | 141. |
| Wholesale and retail trade | • | • | • | • | • | 20.08 | 35.71 | 53.82 | 105.75 | 117. |
| Public authority (n.e.i.) and | I. comn | nunity | and | busi | ness | 20.00 | 33.71 | 33.02 | 105.75 | |
| services | | | | | | 19.21 | 34.81 | 54.11 | 104.09 | 119. |
| Amusement, hotels, personal | service | e, etc. | | · | | 19.23 | 33.73 | 49.16 | 97.66 | 108. |
| All industry groups(e) | | | | | | 20.20 | 35.50 | 54.20 | 105.42 | 117.3 |
| | | | INIT | | | | | | | |
| (Base: Weight | ed Aver | age W | | | | IBERS te for Aust | ralia, Year | 1954 = 1 | | |
| (Base: Weight Mining and quarrying(c) Manufacturing— | ed Aver | age W | | | | | 146.8 | $\frac{1954 = 1}{215.4}$ | 434.8 | 516 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic | les, etc. | | | | | te for Aust | | | 434.8 358.8 | 388 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and fool | les, etc. | | | | | te for Aust | 146.8 | 215.4 183.7 180.3 | 434.8 | 388 375 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic | les, etc. | | 'eekl | | | 91.9 71.4 | 146.8 124.0 | 215.4 183.7 | 434.8 358.8 | 388 375 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and fool | les, etc. wear | | 'eekl | | | 91.9 71.4 69.9 | 146.8 124.0 120.5 | 215.4 183.7 180.3 | 434.8 358.8 326.5 | 388 375 402 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and fool Food, drink and tobacco | les, etc. wear | | 'eekl | | | 91.9 71.4 69.9 71.3 | 146.8 124.0 120.5 124.7 | 215.4 183.7 180.3 187.6 | 434.8 358.8 326.5 359.2 | 388 375 402 394 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and fool Food, drink and tobacco Sawmilling, furniture, etc. | les, etc. wear | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 | 146.8 124.0 120.5 124.7 122.6 | 215.4 183.7 180.3 187.6 183.6 | 434.8 358.8 326.5 359.2 359.4 | 388 375 402 394 421 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and fool Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. | les, etc. | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 75.9 | 146.8 124.0 120.5 124.7 122.6 134.3 | 215.4 183.7 180.3 187.6 183.6 203.5 | 434.8 358.8 326.5 359.2 359.4 378.9 | 388 375 402 394 421 398 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and food Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing grow Building and construction | les, etc. | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 | 388 375 402 394 421 398 <i>393</i> |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and food Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing All manufacturing grow Building and construction Railway services | les, etc. | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 122.7 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 | 388 375 402 394 421 398 <i>393</i> 445 390 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and food Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing All manufacturing gro Building and construction Railway services Road and air transport | les, etc. | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 70.1 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 193.5 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 380.6 | 388 375 402 394 421 398 <i>393</i> 445 390 412 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and foot Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing All manufacturing grow Building and construction Railway services Road and air transport Shipping and stevedoring(d) | les, etc. | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 122.7 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 | 516 388 375 402 394 421 398 393 445 390 412 512 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and food Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing All manufacturing gro Building and construction Railway services Road and air transport | les, etc. | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 70.1 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 122.7 124.8 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 193.5 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 380.6 | 388 375 402 394 421 398 <i>393</i> 445 390 412 512 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and foot Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing All manufacturing grow Building and construction Railway services Road and air transport Shipping and stevedoring(d) | les, etc. | | 'eekl | | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 70.1 69.6 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 122.7 124.8 122.0 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 193.5 214.3 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 380.6 418.6 | 388 375 402 394 421 398 393 445 390 412 512 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and food Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing grow Building and construction Railway services Road and air transport Shipping and stevedoring(d) Communication | . etc. etc. ewear | | | y Wag | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 70.1 69.6 75.5 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 122.7 124.8 122.0 136.3 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 193.5 214.3 244.1 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 380.6 418.6 463.0 | 388 375 402 394 421 398 393 445 390 412 512 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and fool Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing gro. Building and construction Railway services Road and air transport Shipping and stevedoring(d) Communication Wholesale and retail trade | . etc. etc. ewear | | | y Wag | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 70.1 69.6 75.5 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 122.7 124.8 122.0 136.3 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 193.5 214.3 244.1 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 380.6 418.6 463.0 | 388 375 402 394 421 398 393 445 390 412 501 415 |
| Mining and quarrying(c) Manufacturing— Engineering, metals, vehic Textiles, clothing and food Food, drink and tobacco Sawmilling, furniture, etc. Paper, printing, etc. Other manufacturing grown Building and construction Railway services Road and air transport Shipping and stevedoring(d) Communication Wholesale and retail trade Public authority (n.e.i.) and | les, etc. lwear | | | y Wag | | 91.9 71.4 69.9 71.3 69.4 75.9 70.0 71.1 70.3 69.3 70.1 69.6 75.5 71.1 | 146.8 124.0 120.5 124.7 122.6 134.3 122.9 124.1 126.6 122.7 124.8 122.0 136.3 126.4 | 215.4 183.7 180.3 187.6 183.6 203.5 185.3 185.4 200.7 181.7 193.5 214.3 244.1 190.6 | 434.8 358.8 326.5 359.2 359.4 378.9 359.0 357.7 390.7 360.9 380.6 418.6 463.0 374.5 | 388 375 402 394 421 398 <i>393</i> 445 390 412 |

⁽a) As prescribed in awards, determinations and collective agreements. (b) The amounts shown should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends. (c) For mining, rates of wage used are those prescribed for the principal mining centres and include lead bonuses, etc. (d) Includes rates of wage (and value of keep) for occupations in the coastal shipping service, other than masters, officers and engineers (e) Excludes rural industry.

Adult males—jurisdiction. Weighted average minimum weekly wage rates for adult males covered by Federal awards, etc. and for those covered by State awards, etc. (as defined below) are shown separately in the following table. For the purposes of the index, Federal awards, etc. include awards of, or collective agreements registered with, the Australian Conciliation and Arbitration Commission, and determinations of the Australian Public Service Arbitrator. State awards, etc. include awards or determinations of, or collective agreements registered with, State industrial tribunals, together with certain unregistered collective agreements when these are dominant in the particular industries to which they refer.

WEEKLY WAGE RATES: ADULT MALES, ALL GROUPS(a)

(S)

WEIGHTED AVERAGE MINIMUM WEEKLY RATES(b) PAYABLE FOR A FULL WEEK'S WORK (EXCLUDING OVERTIME) AS PRESCRIBED IN AWARDS, DETERMINATIONS AND COLLECTIVE AGREEMENTS

| | | | | End of D | ecember | | | |
|--|---|----------|--|----------------|----------------|----------------|------------------|------------------|
| Jurisdiction | | | | 1950 | 1960 | 1970 | 1974p | 1975p |
| Federal awards, etc.(c) | | | | 20.18 | 35.14 | 53.77 | 105.64 | 118.62 |
| State awards, etc.(c) All awards, etc. | : | <i>.</i> | | 20.23 20.20 | 35.88 35.50 | 54.65 54.20 | 105.19 105.42 | 115.87 117.37 |

⁽a) Excludes rural industry. (b) The amounts should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends. For definitions see text above. (c) The wage rates for these two categories may change at any time as a result of the transfer of particular awards or occupations from one jurisdiction to another.

Weekly wage rates-adult females

1974p

1975p

467.4

547.4

451.9

546.0

The following table shows, for each State and Australia, the weighted average minimum weekly rates of wage payable to adult female workers for a full week's work and index numbers at the dates specified. This series has not been compiled for years prior to 1951.

WEEKLY WAGE RATES: ADULT FEMALES, ALL GROUPS(a) WEIGHTED AVERAGE MINIMUM WEEKLY WAGE RATES(b) PAYABLE FOR A FULL WEEK'S WORK (EXCLUDING OVERTIME) AND INDEX NUMBERS OF WAGE RATES

| End of December | ?r | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust |
|--------------------|----|--------|-------------|-------------|-------------|---------------|-------------|---------|--------|
| | | | | RATE | S OF WAG | E(c) (\$) | | | ··· |
| 1951 . | | | 17.23 | 17.22 | 16.12 | 17.02 | 16.25 | 16.56 | 17.03 |
| 1960 . | | | 26.12 | 24.66 | 23.93 | 24.29 | 25.12 | 23.88 | 25.17 |
| 1970 . | | | 40.68 | 38.65 | 40.60 | 37.51 | 40.02 | 38.17 | 39.68 |
| 1974p | | | 93.06 | 89.97 | 91.95 | 91.22 | 87.65 | 92.47 | 91.49 |
| 1975p | | | 108.97 | 108.70 | 108.87 | 102.80 | 104.88 | 104.85 | 108.12 |
| | | | | IND | EX NUME | BERS | | | |
| | | (Base: | Weighted Av | erage Weekl | y Wage Rate | for Australia | , Year 1954 | == 100) | _ |
| 1951 . | | | 86.6 | 86.5 | 81.0 | 85.5 | 81.6 | 83.2 | 85.6 |
| 1960 . | | | 131.2 | 123.9 | 120.2 | 122.0 | 126.2 | 120.0 | 126.4 |
| 1970 . | | _ | 204.3 | 194.2 | 203.9 | 188.4 | 201.0 | 191.7 | 199.3 |

⁽a) Excludes rural industry; mining and quarrying; and building and construction. (b) As prescribed in awards, determinations and collective agreements. (c) The amounts shown should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends.

461.9

546.9

458.2

516.4

440.3

526.8

464.5

526.6

459.6

543.1

The following table shows for Australia weighted average minimum weekly rates of wage and index numbers in each of the industry groups in which the number of females employed is important, and the weighted average for all groups combined, at the dates specified.

WEEKLY WAGE RATES: ADULT FEMALES, INDUSTRY GROUPS, AUSTRALIA
WEIGHTED AVERAGE MINIMUM WEEKLY RATES(a) PAYABLE FOR A FULL WEEK'S WORK
(EXCLUDING OVERTIME) AND INDEX NUMBERS OF WAGE RATES

| | i | End of D | ecember- | | | |
|---|---------|--|---|---|---|--|
| Industry Group | - | 1951 | 1960 | 1970 | 1974p | 1975 |
| R | ATES OI | F WAG | E(b) (\$) | | | |
| Manufacturia | | | | | | |
| Manufacturing— Engineering, metals, vehicles, etc | 1 | 7.09 | 24.98 | 40.24 | 93.31 | 106.8 |
| Textiles, clothing and footwear . | | 7.12 | 24.07 | 36.59 | 81.09 | 101.0 |
| Food, drink and tobacco | - | 6.58 | 24.63 | 38.22 | 91.36 | 106.4 |
| Other manufacturing | | 6.88 | 24.80 | 37.79 | 90.60 | 106.9 |
| Other manufacturing | . 1 | 0.00 | 24.80 | 31.77 | 30.00 | 100.7 |
| All manufacturing groups . | . 1 | 6.99 | 24.46 | 37.72 | 86.67 | 104.0 |
| Transport and communication . | . 1 | 7.75 | 26.02 | 44.19 | 100.55 | 112.6 |
| Wholesale and retail trade | . 1 | 7.11 | 26.36 | 42.12 | 98.07 | 114.7 |
| Public authority (n.e.i.) and communi | ty | | | | | |
| and business services | | 7.01 | 25.78 | 41.92 | 93.45 | 111.6 |
| Amusement, hotels, personal service, etc. | . 1 | 6.68 | 24.50 | 37.97 | 90.28 | 104.2 |
| All industry groups(c) | . 1 | 7.03 | 25.17 | 39.68 | 91.49 | 108.1 |
| | INDEX | NIIMD | EDC | | | |
| (Base: Weighted Average W | | | | , <i>Year</i> 1954 | == 100) | |
| | | | | | * | |
| Manufacturing— | | | | | | |
| | | 85.9 | 125:5 | 202.1 | 468.7 | 536. |
| Manufacturing— Engineering, metals, vehicles, etc Textiles, clothing and footwear | • | 85.9 86.0 | 125:5 | 202.1 183.8 | 468.7 407.3 | |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . | | 86.0 | 120.9 | 183.8 | 407.3 | 507. |
| Engineering, metals, vehicles, etc | | | | | | 507. 534. |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . Food, drink and tobacco | | 86.0 83.3 | 120.9 123.7 | 183.8 192.0 | 407.3 458.9 | 507. 534. 537. |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . Food, drink and tobacco . Other manufacturing | | 86.0 83.3 84.8 85.4 | 120.9 123.7 124.6 122.9 | 183.8 192.0 189.8 | 407.3 458.9 455.1 435.4 | 507. 534. 537. |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . Food, drink and tobacco . Other manufacturing . All manufacturing groups . Transport and communication . | | 86.0 83.3 84.8 <i>85.4</i> 89.2 | 120.9 123.7 124.6 122.9 | 183.8 192.0 189.8 189.5 | 407.3 458.9 455.1 435.4 505.1 | 507. 534. 537. 522. |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . Food, drink and tobacco . Other manufacturing . All manufacturing groups Transport and communication Wholesale and retail trade . | | 86.0 83.3 84.8 85.4 | 120.9 123.7 124.6 122.9 | 183.8 192.0 189.8 | 407.3 458.9 455.1 435.4 | 507. 534. 537. 522. |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . Food, drink and tobacco . Other manufacturing . All manufacturing groups Transport and communication . Wholesale and retail trade . Public authority (n.e.i.) and community ar | | 86.0 83.3 84.8 85.4 89.2 85.9 | 120.9 123.7 124.6 122.9 130.7 132.4 | 183.8 192.0 189.8 189.5 222.0 211.6 | 407.3 458.9 455.1 435.4 505.1 492.6 | 507. 534. 537. 522. 565. 576. |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . Food, drink and tobacco . Other manufacturing . All manufacturing groups Transport and communication . Wholesale and retail trade . Public authority (n.e.i.) and community ar business services . | | 86.0 83.3 84.8 85.4 89.2 85.9 | 120.9 123.7 124.6 122.9 130.7 132.4 129.5 | 183.8 192.0 189.8 189.5 222.0 211.6 210.6 | 407.3 458.9 455.1 435.4 505.1 492.6 469.4 | 536. 507. 534. 537. 522. 565. 576. |
| Engineering, metals, vehicles, etc Textiles, clothing and footwear . Food, drink and tobacco . Other manufacturing . All manufacturing groups Transport and communication . Wholesale and retail trade . Public authority (n.e.i.) and community ar | | 86.0 83.3 84.8 85.4 89.2 85.9 | 120.9 123.7 124.6 122.9 130.7 132.4 | 183.8 192.0 189.8 189.5 222.0 211.6 | 407.3 458.9 455.1 435.4 505.1 492.6 | 507. 534. 537. 522. 565. 576. |

⁽a) As prescribed in awards, determinations and collective agreements. (b) The amounts shown should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends. (c) Excludes rural industry; mining and quarrying; and building and construction.

Adult females—jurisdiction. Weighted average minimum weekly wage rates for adult females covered by Federal awards, etc. and for those covered by State awards, etc. (as defined below) are shown separately in the following table. For the purposes of this index, Federal awards, etc. include awards of, or collective agreements registered with, the Australian Conciliation and Arbitration Commission, and determinations of the Australian Public Service Arbitrator. State awards, etc. include awards or determinations of, or collective agreements registered with, State industrial tribunals, together with certain unregistered collective agreements when these are dominant in the particular industries to which they refer.

WEEKLY WAGE RATES: ADULT FEMALES, ALL GROUPS(a)

WEIGHTED AVERAGE MINIMUM WEEKLY RATES(b) PAYABLE FOR A FULL WEEK'S WORK (EXCLUDING OVERTIME) AS PRESCRIBED IN AWARDS, DETERMINATIONS AND COLLECTIVE AGREEMENTS

| | | | | | End of D | ecember | | | |
|--|--|---|---|------|----------------|----------------|----------------|----------------|------------------|
| Jurisdiction | | | | 1965 | 1970 | 1971 | 1974p | 1975р | |
| Federal awards, etc.(c) | | | | | 27.79 30.20 | 37.91 | 45.47 48.42 | 87.62 | 102.51 |
| State awards, etc.(c) All awards, etc. | | : | : | : | 29.10 | 41.16 39.68 | 48.42 47.06 | 94.86 91.49 | 112.99 108.12 |

⁽a) Excludes rural industry; mining and quarrying; and building and construction. (b) The amounts should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends. For definitions see text above. (c) The wage rates for these two categories may change at any time as a result of the transfer of particular awards or occupations from one jurisdiction to another.

Standard hours of work

In the fixation of weekly wage rates most industrial tribunals prescribe the number of hours constituting a full week's work (excluding overtime) for the wage rates specified. The hours of work so prescribed form the basis of the compilation of the weighted averages and index numbers shown below. The main features of the reduction of hours to forty-four and later to forty per week are summarised in previous issues of the Year Book. Since January 1948 practically all employees in Australia have had a standard working week of forty hours or less.

Hourly wage rates

The average rates of wage in the preceding tables are based on the minimum rates prescribed for selected occupations in awards, etc. for a full week's work, excluding overtime. However, the number of hours constituting a full week's work differs in some instances between the various occupations in each State, and between the same occupations in the several States. For some purposes a better comparison may be obtained by reducing the results in the preceding paragraphs to a common basis, namely the rate of wage per hour. The particulars of weighted average minimum hourly rates of wage given in the following tables relate to all industry groups except rural industry, and shipping and stevedoring. The rural industry is not included in the index, and shipping and stevedoring has been excluded because, for some of the occupations in this group, definite particulars for the computation of average working hours and hourly rates of wage are not available.

The following table shows the weighted average minimum hourly rates of wage payable to adult male workers and index numbers of hourly rates in each State.

HOURLY WAGE RATES: ADULT MALES, ALL GROUPS(a)
WEIGHTED AVERAGE MINIMUM HOURLY RATES PAYABLE AND INDEX NUMBERS OF HOURLY RATES

| End of D | ecen | ıber— | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust |
|----------|------|-------|--------------|-------------|--------------|--------------|--------------|---------|--------|
| | | | | RAT | ES OF WA | GE(b) | | | |
| | | | | | (cents) | | | | |
| 1950 . | | • | 51.63 | 50.48 | 48.83 | 49.53 | 50.29 | 49.52 | 50.58 |
| 1960 . | | | 90.91 | 87.57 | 87.79 | 85.61 | 89.89 | 88.08 | 88.92 |
| 1970 . | | | 136.08 | 133.91 | 137.49 | 129.74 | 140.09 | 135.50 | 135.35 |
| 1974p | | | 264.38 | 262.38 | 273.36 | 257.77 | 252.19 | 263.96 | 263.59 |
| 1975p | • | • | 294.19 | 290.81 | 304.42 | 285.71 | 277.81 | 288.99 | 292.57 |
| | | | | INI | DEX NUMI | BERS | 1 | | |
| | | (Base | : Weighted A | verage Hour | ly Wage Rate | for Australi | a, Year 1954 | -= 100) | |
| 1950 . | | | 73.0 | 71.4 | 69.0 | 70.0 | 71.7 | 70.0 | 71.5 |
| 1960 . | | | 128.5 | 123.8 | 124.1 | 121.0 | 127.1 | 124.5 | 125.7 |
| 1970 . | | | 192.3 | 189.3 | 194.3 | 183.4 | 198.0 | 191.5 | 191.3 |
| 1974p | | | 373.7 | 370.8 | 386.4 | 364.3 | 356.5 | 373.1 | 372.6 |
| 1975p | | - | 415.8 | 411.0 | 430.3 | 403.8 | 392.7 | 408.5 | 413.5 |

⁽a) Excludes rural industry, and shipping and stevedoring. See text above. (b) The amounts shown should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends.

The following table shows the weighted average minimum hourly rates of wage payable to adult female workers and index numbers of hourly rates in each State.

HOURLY WAGE RATES: ADULT FEMALES, ALL GROUPS(a)
WEIGHTED AVERAGE MINIMUM HOURLY RATES PAYABLE AND INDEX NUMBERS OF HOURLY RATES

| End of D | ecemb | er— | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|----------|-------|------|--------------|-------------|----------------------|---------------|---------------|----------|--------|
| | | - | | RAT | ES OF WA | GE(b) | | | |
| | | | | | (cents) | | | | |
| 1951 . | | | 43.58 | 43.25 | 40.60 | 42.81 | 40.85 | 41.86 | 42.92 |
| 1960 . | | | 66.09 | 61.94 | 60.28 | 61.08 | 63.14 | 60.37 | 63.44 |
| 1970 . | | | 102.92 | 97.10 | 102.26 | 94.32 | 100.59 | 96.32 | 100,03 |
| 1974p | | | 235.44 | 226.01 | 231.62 | 229.40 | 220.33 | 233.36 | 230.63 |
| 1975p | • | - | 275.70 | 273.07 | 274.23 | 258.50 | 263.63 | 264.59 | 272.54 |
| | | | | INI | DEX NUME | BERS | | | |
| | | (Ba. | se: Weighted | Average Hou | ırl <u>y</u> Wage Ra | te for Austra | lia, Year 195 | 4 = 100) | |
| 1951 . | | • | 86.9 | 86.2 | 80.9 | 85.3 | 81.4 | 83.4 | 85.6 |
| 1960 . | | | 131.7 | 123.5 | 120.1 | 121.7 | 125.8 | 120.3 | 126.4 |
| 1970 . | | | 205.1 | 193.5 | 203.8 | 188.0 | 200.5 | 192.0 | 199.4 |
| 1974p | | | 469.3 | 450.5 | 461.7 | 457.2 | 439.2 | 465.1 | 459.7 |
| 1975p | | | 549.5 | 544.3 | 546.6 | 515.2 | 525.5 | 527.4 | 543.2 |

⁽a) Excludes rural industry; mining and quarrying; and building and construction. (b) The amounts shown should not be regarded as actual current averages, but as an index expressed in money terms, indicative of trends.

Weighted average standard weekly hours of work

The 40-hour week has operated in Australia generally from 1 January 1948. However, as stated on page 275, the number of hours constituting a full week's work (excluding overtime) differs between occupations and/or between States. The weighted average standard hours of work (excluding overtime) prescribed in awards, determinations and collective agreements for a full working week, in respect of adult male workers in all industry groups except rural industry, and shipping and stevedoring, at 31 December 1975, were: New South Wales, 39.77; Victoria, 39.96; Queensland, 39.88; South Australia, 39.95; Western Australia, 39.83; Tasmania, 39.91; Australia, 39.86. Corresponding figures for adult female workers at 31 December 1975 were: New South Wales, 39.53; Victoria, 39.81; Queensland, 39.70; South Australia, 39.77; Western Australia, 39.78; Tasmania, 39.63; Australia, 39.67.

Average Weekly Earnings

The figures in this section are derived from particulars of employment and wages and salaries recorded on payroll tax returns, from other direct collections and from estimates of the unrecorded balance. The figures relate to civilians only. In addition to salary and wage payments at award rates, the total earnings figures used in the calculation of average weekly earnings include the earnings of employees not covered by awards, overtime earnings, over-award and bonus payments, payments made in advance or retrospectively during the period, etc.

Particulars of wages and salaries paid are not available for males and females separately from the sources used for this series; average weekly earnings have therefore been calculated in terms of male units, i.e. total male employees plus a proportion of female employees, the proportion being derived from the estimated ratios of female to male average earnings. Different ratios of female to male average earnings, based on information from the annual surveys of weekly earnings and hours, from a sample survey carried out in November 1969 and from other sources, are used for individual States and Territories, Ratios used for the December 1975 quarter are as follows: New South Wales 65 per cent, Victoria 66, Queensland 64, South Australia 63, Western Australia 62, Tasmania 66, Northern Territory 65 and the Australian Capital Territory 62. As the number of male units used in calculating Australian average weekly earnings is the sum of the estimates for the States and Territories, a separate ratio for Australia is not used, but the weighted average of the State ratios is approximately 65 per cent. Changes in these ratios may be necessary from one quarter to the next to reflect, for example, the extension of equal pay provisions, or appreciable and sustained changes in the levels of male overtime earnings. However, small differences in these ratios have relatively little effect on the earnings figures: if the ratio is understated by one per cent, then average weekly earnings of \$170 would be overstated by about 70 cents.

Annual averages for each State and Australia for the years 1966-67 to 1974-75 are shown in the table below.

AVERAGE WEEKLY EARNINGS PER EMPLOYED MALE UNIT(a)

(S)

| Period | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust.(b) |
|---------|------|--------|--------|--------|--------|--------|--------|----------|
| 1966-67 | | 63.30 | 64.10 | 57.30 | 57.30 | 59.40 | 58.50 | 61.90 |
| 1967-68 | | 66.70 | 67.80 | 60.30 | 60.60 | 64.10 | 62.00 | 65.50 |
| 1968-69 | | 72.30 | 72.40 | 64.50 | 64.80 | 69.00 | 65.70 | 70.40 |
| 1969-70 | | 78.50 | 78.40 | 69.40 | 70.30 | 75.70 | 70.90 | 76.30 |
| 1970-71 | | 87.30 | 86.40 | 78.00 | 77.20 | 84.90 | 78.50 | 84.80 |
| 1971-72 | | 95.90 | 93.60 | 87.00 | 85.30 | 93.70 | 86.80 | 93.00 |
| 1972-73 | | 104.30 | 102.50 | 97.00 | 93.00 | 99.00 | 94.40 | 101.50 |
| 1973-74 | | 121.00 | 118.40 | 112.60 | 110.60 | 115.50 | 110.20 | 118.00 |
| 1974-75 | _ | 151.90 | 148.30 | 141.80 | 139.80 | 146.00 | 138.90 | 148.20 |

(a) See explanatory notes above. (b) Includes the Northern Territory and the Australian Capital Territory.

Because of the adoption of a new definition of the labour force at June 1966 population census, there is a break in comparability between June and September quarters of 1966 in the employment series used in the calculation of average weekly earnings. For this and other reasons (in particular, the lack of precise information about the ratios of female to male earnings for the States for 1965–66 and earlier years), it is not possible to make a comparable series of State estimates for periods prior to September quarter 1966. However, in order to provide a broad indication of trends over a longer period, estimates for Australia as a whole have been calculated for the period back to September quarter 1961 by methods and on a basis that are as nearly as possible comparable with those used for the current series. Annual averages for this period are: 1961–62, \$47.70; 1962–63, \$49.00; 1963–64, \$51.60; 1964–65, \$55.50; 1965–66, \$58.00.

For current statistics in this series reference should be made to the quarterly publication Average Weekly Earnings (6.18).

Surveys of wage rates, earnings and hours, 1960 to 1974

Since 1960 a number of statistical surveys have been undertaken by this Bureau in order to obtain information on wage rates, actual weekly earnings and hours of work in Australia. Particulars of the scope and coverage of the surveys from 1960 to 1973 were shown in earlier issues of the Year Book. Details concerning the 1974 survey are shown on pages 280-1.

Survey of wage rates and earnings, September 1960

For information on the results of this survey see Year Book No. 51, pages 439-42.

Survey of weekly earnings, October 1961

The results of this survey were published in Year Book No. 51, pages 442-4.

Surveys of weekly earnings and hours, October 1962 to 1971 (excluding October 1965)

Details of these surveys were published in earlier issues of the Year Book. For a summary of the results for October 1969, 1970 and 1971 see Year Book No. 59, pages 259-65.

Survey of weekly earnings, October 1965

A survey of weekly earnings of male employees was conducted for the last pay-period in October 1965. Results of this survey, which covered the distribution and composition of weekly earnings, were published in detail in *Labour Report* No. 52, 1965 and 1966.

Survey of weekly earnings (size distribution), May 1971

A survey of weekly earnings of adult male employees was conducted for the pay-period which included 12 May 1971. The object of the survey was to obtain estimates of the numbers and proportions of full-time adult male employees (paid for a full week) in various total weekly earnings groups, average weekly total earnings for these employees, and a dissection of average weekly total earnings into average weekly overtime earnings and average weekly ordinary time earnings. The survey was conducted by means of stratified random samples of (i) private employers subject to payroll tax (that is those, other than exempt employers, paying more than \$400 a week in wages and salaries),

(ii) public hospitals, and (iii) local government authorities; and in addition a complete coverage of (iv) Commonwealth and State government departments, government authorities and semi-government bodies. Excluded were employees of private employers not subject to payroll tax; employees in rural industry and private domestic service; employees of religious, benevolent and other similar organisations exempt from payroll tax (other than public hospitals and government institutions); and waterside workers employed on a casual basis. Detailed results of the survey were published in *Labour Report* No. 56, 1971.

Surveys of weekly earnings and hours, October 1972, 1973 and 1974

Sample surveys conducted before 1972 (see page 277) covered most private employers subject to payroll tax (i.e. those paying more than \$400 a week in wages and salaries) in the six States. The October 1972 survey included for the first time: (i) private employees in the Northern Territory and the Australian Capital Territory, (ii) employees in non-government hospitals not subject to payroll tax and (iii) employees of Australian, State and local government authorities.

Results of the 1972 survey for private employees were published in the bulletin Survey of Weekly Earnings and Hours (6.1) and in Labour Report No. 57, 1972.

Some results of the 1974 survey for total (private and government) employees are contained in the tables on pages 280-1. Further particulars, including averages for each State, separate details for private and government employees, and some details for the Territories were published in the bulletin *Earnings and Hours of Employees* (6.40). Preliminary results of the surveys are published in the bulletin *Earnings and Hours of Employees* (Preliminary) (6.36) as soon as returns from a large percentage of respondents have been processed.

Scope of Surveys

The estimates in the following tables are based on returns from stratified random samples of (i) most private employers subject to payroll tax (i.e. those, other than exempt employers, paying more than \$400 a week in wages and salaries), (ii) non-government hospitals not subject to payroll tax and (iii) local government authorities; and from all Australian and State government departments, authorities and semi-government bodies. The estimates for private employees refer to persons employed by employers in categories (i) and (ii). The estimates for government employees refer to all other employees covered by the survey. Excluded from the survey were employees of private employers not subject to payroll tax; employees in rural industry and private domestic service; employees of religious, benevolent and other similar organisations exempt from payroll tax (other than hospitals and government authorities); and waterside workers employed on a casual basis.

Although the sample was not designed to provide estimates of the numbers of employees represented, it has been calculated that the 1974 survey was representative of approximately 2,767,000 male and 1,396,000 female wage and salary earners, comprising 1,877,000 males and 1,042,000 females in private employment and 879,000 males and 354,000 females in government employment.

As parts of the survey were conducted from samples of employers (see above) the resultant estimates are subject to sampling variability, that is, variations which might occur by chance because only samples of employers were surveyed. The extent of the detail published has been determined after considering estimated measures of sampling variability. A technical note on sampling variability is included in the bulletin *Earnings and Hours of Employees* (6.40).

Comparability of results

In addition to affecting the results of each sample survey, sampling variability also affects comparison between the results of the different surveys.

The industry classification adopted for these earnings and hours surveys from 1963 to 1973 (including the 1965 survey) was that used for the 1961 and 1966 population censuses. The industry classification used for the 1974 survey was the Australian Standard Industrial Classification (ASIC) described in the Bureau publication Australian Standard Industrial Classification (Preliminary Edition) 1969, Vol. 1. Consequently estimates by industry are not directly comparable with those obtained from earlier October surveys.

The October 1965 Survey of Weekly Earnings was a special purpose survey on a different basis from the surveys compared in this section (see page 277).

The allocation of employees between 'Managerial, executive, professional and higher supervisory staff' and 'All other full-time employees' (as defined) depends upon the employers' interpretation of the definitions (see page 279).

Results for private employees published in the bulletins (6.40) are not directly comparable with the results for private employees published in Survey of Weekly Earnings and Hours, October 1972 (6.1) and earlier bulletins because the earlier bulletins excluded details for private employees in the Northern Territory and the Australian Capital Territory and for employees in non-government hospitals not subject to payroll tax.

The estimates shown in the following tables reflect the effect of the differences—between States, between industries and between government and private employment—in (i) the amounts earned and the hours worked for the same occupations, (ii) the occupational structures within industries, (iii) the industry structure, (iv) the definitions and reporting of managerial, etc. staff and non-managerial employees (see definitions below), (v) the level of business activity including the incidence of overtime, etc., (vi) the incidence of incentive, piece-work and profit-sharing scheme payments, and (vii) the degree of implementation of equal pay for the sexes, etc.

Definitions

The following definitions refer to terms used in the surveys and in the tables in this section.

Employees refers to male and female employees on the payroll and who received pay for the last pay-period in October.

Private employees are employees of private employers subject to payroll tax and employees of non-government hospitals not subject to payroll tax.

Government employees are civilian employees of Australian and State government departments, authorities and semi-government bodies, and of local government authorities.

Adults includes all employees 21 years of age and over and those employees who, although under 21 years of age, are paid at the adult rate for their occupation.

Juniors refers to those employees under 21 years of age who are not paid at the adult rate for their occupation.

Full-time employees refers to those employees who ordinarily work 30 hours or more a week and who received pay for the last pay-period in October. Included are 'full-time' employees on short-time; 'full-time' employees who began or ceased work during the pay-period; and 'full-time' employees on paid annual leave, paid sick leave, long service leave and paid holidays taken during the pay-period.

Part-time employees refers to employees who ordinarily work less than 30 hours a week and who received pay for the last pay-period in October. Employees on short-time who normally work 30 hours or more a week are classified as full-time employees.

For private employees, Other than managerial, etc. staff were defined to include minor supervisory employees, leading hands, clerical and office staff as well as ordinary wages employees. They exclude managerial, executive, professional and higher supervisory staff who, for private employees, were not further defined. For government employees, managerial, executive, professional and higher supervisory staff were generally defined as those employees (i) who were ineligible to receive payment for overtime, or (ii) who, although subject to payment for overtime, were in charge of a significant number of employees in a separate establishment (or establishments). For some occupations in government employment, such as school teachers and doctors, there is no general payment for overtime. In these cases, managerial, etc. staff were determined according to the degree of supervision exercised or in relation to the pay structure of associated administrative employees.

Weekly earnings refers to gross earnings for the last pay-period in October before taxation and other deductions have been made. It includes ordinary time earnings, overtime earnings, shift allowances, penalty rates, commission and similar payments; and that part of paid annual leave, paid sick leave, long service leave and paid holidays taken during the pay-period. It includes one week's proportion of payments made other than on a weekly basis, e.g. salary paid fortnightly or monthly; paid annual or other leave taken during the pay-period; periodical payments under incentive, piecework, profit sharing schemes, etc.; commissions; annual or periodical bonuses, etc. Retrospective payments are excluded.

Overtime earnings refers to that part of gross weekly earnings (as defined above) for hours paid for in excess of award, standard or agreed hours of work. Overtime earnings were not reported for managerial, etc. staff.

Ordinary time earnings refers to that part of gross weekly earnings (as defined above) for award, standard or agreed hours of work. It includes shift allowances, penalty rates, commissions, bonuses and incentive payments, and that part of paid annual and other leave, which relates to these hours.

Weekly man-hours paid for refers to the sum of man-hours for which payment was made. It includes ordinary time hours, overtime hours, paid stand-by or reporting time; and that part of paid annual leave, paid sick leave, long service leave and paid holidays taken during the specified pay-period. For employees paid other than weekly, hours are converted to a weekly basis. For employees who began or ceased work, or were absent without pay for any reason during the

specified week, only the man-hours actually paid for are included. Where agreed hours of work are less than award hours, man-hours are based on agreed hours. Hours of work were not reported for managerial, etc. staff.

Overtime hours refers to hours in excess of award, standard or agreed hours of work.

Ordinary time hours refers to award, standard or agreed hours of work. It includes man-hours of stand-by or reporting time which are part of standard hours of work, and that part of paid annual leave, paid sick leave and long service leave taken during the specified week.

In the following tables the estimates of average weekly earnings are rounded to the nearest ten cents, estimates of average weekly hours paid for are rounded to the first decimal place, and estimates of average hourly earnings are rounded to the nearest cent.

AVERAGE WEEKLY EARNINGS AND HOURS (OVERTIME AND ORDINARY TIME)(a), FULL-TIME EMPLOYEES OTHER THAN MANAGERIAL, ETC STAFF(b): INDUSTRIES AUSTRALIA, OCTOBER 1974(c)

| | Average earning: | | , | Average hours p | e weekly aid for | | Average earning: | weekly s (\$) | | Average wee | ekly for |
|---|--------------------------------|--|--|---------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---|--|--|----------------------|
| Industry group | Over- time earn- ings | Ordin- ary time earn- ings | Total | Over- time hours | Ordin- ary time hours | Total | Over- time earn- ings | Ordin- ary time earn- ings | Total | Ordin- Over- ary time time hours hours | Total |
| | | ΑI | OULT N | 1ALES | | | | JUN | IOR M | ALES | |
| Manufacturing— Food, beverages and tobacco Textiles; clothing and foot-wear | 21.70 | | | 4.4 | 38.3 38.5 | 42.7 41.4 | 8.10 3.40 | 72.30 62.70 | 80.40 66.10 | 2.5 38.1 1.4 38.6 | 40.7 |
| Paper, printing, etc. (d) Chemical, petroleum and coal products Metal products, machinery | 18.80 | | | 3.4 | 38.8 38.1 | 41.4 | 4.10 4.10 | 75.30 82.20 | 79.40 86.20 | 1.3 39.2 | 40.5 39.3 |
| and equipment— Basic metal products Fabricated metal products: other machinery, etc. (e) | | | 164.10 145.00 | 5.4 | 38.5 | 44.0 42.4 | 7.20 6.00 | 83.00 70.40 | 90.20 76.30 | 2.0 38.2 | 40.3 |
| Transport equipment . | 12.20 | 128.10 | 140.30 | 3.9 | 38.3 | 40.7 | 4.30 5.80 | 73.70 | 78.10 79.50 | 1.4 38.3 | 39.6 |
| Other (f) | | | 137.80 | 4.0 | 38.4 | 42.4 | 4.40 | 65.80 | 70.20 | 1.6 38.5 | 40.1 |
| Total manufacturing | 18.90 | 126.10 | 145.00 | 3.8 | 38.3 | 42.2 | 5.50 | 72.10 | 77.60 | 1.8 38.4 | 40.2 |
| Non-manufacturing— Mining Electricity, gas and water Construction Wholesale trade Retail trade Transport and storage; | 8.90 19.80 10.50 | 142.80 128.80 122.40 | 186.30 151.70 148.50 132.90 126.00 | 7.2 1.6 3.7 2.2 2.0 | 35.2 38.5 38.2 38.6 39.5 | 42.4 40.1 41.9 40.8 41.4 | 13.30 1.90 3.10 3.70 4.00 | 88.60 84.30 76.00 68.80 65.50 | 101.90 86.20 79.20 72.50 69.50 | 3.7 36.3 0.5 38.3 1.0 38.9 1.2 38.9 1.5 39.4 | 38.9 39.9 40.2 |
| communication Finance, business ser- | | | 162.50 | 3.7 | 38.3 | 42.1 | 6.60 | 82.50 | | 2.1 38.3 | |
| vices (g) Public administration, etc. (h) Other (i) | 6.70 | 148.80 | 138.50 155.60 133.60 | 0.9 1.2 3.1 | 38.4 37.8 38.8 | 39.3 39.0 41 9 | 1.30 1.60 6.80 | 77.00 80.40 67.40 | 78.30 81.90 74.20 | 0.4 38.6 0.5 37.2 2.5 39.0 | 37.0 |
| Total non-manufacturing . | 14.00 | 135.40 | 149.40 | 2.6 | 38.2 | 40.9 | 3.60 | 74.30 | 77.90 | 1.2 38.6 | 39. |
| Total all industries | 15.70 | 132.10 | . 147 . 80 | 3.1 | 38.3 | 41.3 | 4.20 | 73.50 | 77.80 | 1.4 38.6 | 40. |
| | | AD | ULT F | EMALE | s | _ | - | JUN | IOR F | EMALES | |
| Manufacturing Non-manufacturing | | | 99.40 115.10 | | | 38.9 38.4 | | 64.40 68.50 | | | 38. 38. |
| Total all industries | 3.30 | 107.00 | 110.40 | 0.8 | 37.7 | 38.5 | 1.30 | 67.90 | 69.20 | 0.5 38.3 | 38. |

⁽a) Averages for all employees represented in the survey. See page 278. (b) Total (private and government) employees. (c) Last pay-period in October. For definitions and particulars of scope of the survey, etc., see pages 278-80. (d) Paper and paper products, printing and publishing. (e) Fabricated metal products; other industrial machinery and equipment and household appliances. (f) Wood, wood products and furniture; glass, clay and other non-metallic mineral products; and leather, rubber and plastic products and manufacturing not elsewhere classified. (g) Finance, insurance, real estate and business services. (h) Public administration and defence (excluding defence forces). (i) Forestry, logging, fishing, hunting, entertainment, recreation, restaurants, hotels and personal services (excludes agriculture and services to agriculture and private households employing staff).

AVERAGE WEEKLY OVERTIME AND ORDINARY TIME EARNINGS(a) FULL-TIME EMPLOYEES OTHER THAN MANAGERIAL, ETC. STAFF(b): INDUSTRIES, OCTOBER 1974(c)

| | | | \$ | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|
| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
| | AVER | AGE WEI | EKLY OV | ERTIME | EARNIN | GS(a) | | | |
| Adult males— Manufacturing— Metal products, machinery | 22.00 | 17.40 | 18.40 | 15.20 | 22.80 | 17.50 | 36.40 | 22.50 | 19.4 |
| and equipment Other | 19.40 | 18.10 | 18.90 | 14.40 | 21.10 | 13.30 | 77.90 | 21.30 | 18.4 |
| Total manufacturing . | 20.80 | 17.80 | 18.70 | 14.90 | 21.90 | 14.80 | 55.50 | 21.60 | 18.9 |
| Non-manufacturing . | 14.30 | 12.60 | 14.60 | 9.70 | 17.80 | 10.10 | 30.00 | 16.20 | 14.0 |
| Total all industries . | 16.70 | 14.70 | 15.70 | 11.90 | 18.80 | 11.70 | 32.20 | 16.70 | 15.7 |
| Junior males | ₫.60 | 4.20 | 3.70 | 4.10 | 4.60 | 3.30 | 5.70 | 3.60 | 4.2 |
| Adult females | 3.70 | 3.50 | 2.50 | 2.40 | 2.70 | 1.90 | 6.30 | 4.20 | 3.3 |
| Junior females | 1.40 | 1.30 | 1.10 | 1.10 | 1.40 | 1.30 | 2.50 | 1.80 | 1.3 |
| | AVERAGI | E WEEKL | Y ORDII | NARY TI | ME EAR | NINGS(a) | | | |
| Adult males— Manufacturing— Metal products, machinery | | | | | | | | | |
| and equipment Other | 128.90 127.50 | 130.60 123.10 | 120.40 121.80 | 125.30 123.10 | 123.30 117.10 | 137.40 119.20 | 128.80 118.50 | 130.70 136.70 | 128.2 124.1 |
| Total manufacturing . | 128.30 | 126.70 | 121.20 | 124.40 | 119.90 | 125.60 | 124.10 | 135.50 | 126.1 |
| Non-manufacturing . | 138.40 | 137.00 | 129.00 | 128.80 | 132.10 | 130.60 | 142.60 | 155.70 | 135.4 |
| Total all industries | 134.60 | 132.70 | 126.90 | 126.90 | 129.10 | 128.90 | 141.00 | 153.70 | 132.1 |
| Junior males | 74.80 | 76.20 | 72.00 | 70.40 | 69.00 | 69.40 | 74.00 | 77.80 | 73.5 |
| Adult females | 108.70 | 106.20 | 102.00 | 105.20 | 103.50 | 118.00 | 110.30 | 121.40 | 107.0 |
| Junior females | 69.10 | 70.30 | 64.30 | 67.30 | 64.70 | 63.80 | 71.30 | 74.10 | 67.9 |
| | AV | ERAGE V | WEEKLY | TOTAL | EARNING | os | | | |
| Adult males— Manufacturing— Metal products, machinery | | | | | | | | | |
| and equipment Other | 150.90 146.90 | 148.00 141.20 | 138.80 140.60 | 140.50 137.50 | 146.10 138.10 | 154.90 132.60 | 165.20 196.40 | 153.20 158.10 | 147.6 142.5 |
| Total manufacturing . | 149.00 | 144.50 | 139.90 | 139.30 | 141.70 | 140.40 | 179.50 | 157.10 | 145.0 |
| Non-manufacturing . | 152.80 | 149.60 | 143.70 | 138.50 | 149.90 | 140.80 | 172.60 | 171.80 | 149.4 |
| Total all industries . | 151.40 | 147.40 | 142.60 | 138.80 | 147.90 | 140.60 | 173.20 | 170.40 | 147.8 |
| Junior males | 79 40 | 80.40 | 75.70 | 74.50 | 73.60 | 72.80 | 79.70 | 81.40 | 77.8 |
| Adult females | 112.40 | 109.80 | 104.40 | 107.60 | 106.20 | 119.90 | 116.60 | 125.60 | 110.4 |
| funior females | 70.60 | 71.60 | 65.40 | 68.40 | 66.00 | 65.00 | 73.70 | 76.00 | 69.2 |
| | | | | | | | | | |

⁽a) Average overtime and ordinary time earnings are averages for all employees represented in the survey. (b) Total (private and government) employment. (c) Last pay-period in October 1974. For definitions and particulars of scope of the survey, etc., see pages 278-80.

Surveys of Earnings and Hours, May 1974 and 1975

In 1974 a survey of earnings and hours was conducted in Australia in respect of the pay-period which included 31 May 1974. This survey was developed to meet the growing demand for a wider range of statistics relating to the composition and distribution of earnings and hours, according to industry, State, age category, sex, occupation, etc. Similar details were previously collected in the Survey of Wage Rates and Earnings, September 1960, and in the Surveys of Weekly Earnings in October 1965 and May 1971 (see page 277).

The 1975 survey was conducted in respect of the pay-period which included 30 May 1975. Results of the surveys are published in the bulletin Composition and Distribution of Earnings and Hours (6.52). Preliminary results of the survey are published in Earnings and Hours of Employees, Distribution and Composition (Preliminary) (6.47) as soon as returns from a large percentage of respondents have been processed. Some results of the 1975 survey for total (private and government) employees are contained in the tables on pages 283-7.

Scope of Surveys

The surveys represented most civilian wage and salary earners. Excluded were employees in agriculture, employees in private households employing staff, waterside workers employed on a casual basis and persons employed by private employers (other than hospitals) not subject to payroll tax. At the time of the survey, payroll tax was payable by employers paying more than \$400 a week in wages and salaries (other than certain Australian Government bodies, religious and benevolent institutions, public hospitals and other similar organisations specifically exempted under the Australian and State Payroll Tax Acts 1971—1974).

Survey design

Details were collected from a sample of employees from all Australian and State Government departments and authorities; details for local government authorities, non-government hospitals not subject to payroll tax, and other private employers were obtained from separate stratified random samples. The majority of employers selected were requested to supply relevant details, on separate questionnaires, for only a sample of their employees. Individual employees were randomly selected by the employer in accordance with instructions supplied by the Bureau.

As the survey was based on a sample, the resultant estimates are subject to sampling variability, that is, variation which might occur by chance because only a sample of employers were surveyed. The extent of the detail published has been determined after considering estimated measures of sampling variability. A technical note on sampling variability is included in the bulletin *Composition and Distribution of Earnings and Hours* (6.52).

Comparability of results

Because of differences in sample design the results of the survey are not directly comparable with those of other surveys and series such as the October surveys (see page 278), the May 1971 survey (see page 277) and the quarterly series of average weekly earnings (see pages 276-7). In the October surveys and the May 1971 survey, adults included persons under 21 years of age who were paid at adult rates; in the May 1974 and 1975 surveys such persons were included with others under 21 years of age.

Definitions

Employees comprise male and female wage and salary earners (see Scope of Surveys above) who received pay for the specified pay-period.

Full-time employees are employees who received pay for the specified pay-period and whose standard (or rostered) weekly hours of work (see below) for that pay-period were at least 30 hours. Included are full-time employees on short time, full-time employees who began or ceased work during the pay-period and full-time employees on paid annual leave, paid sick leave and paid holidays. Some government employees (e.g. teachers, university lecturers), although paid for a weekly attendance of less than 30 hours, were classified as full-time.

For private employees, other than managerial, etc. staff were defined to include foremen or minor supervisory employees, leading hands, apprentices, trainees or cadets, clerical and office staff as well as ordinary wages employees. They exclude managerial, executive, professional and higher supervisory staff who, for the private sector, were not further defined. For government employees, managerial, executive, professional and higher supervisory staff were generally defined as those employees who (i) were ineligible to receive payment for overtime, or (ii) although subject to payment for overtime, were in charge of a significant number of employees in a separate establishment (or establishments).

Standard (or rostered) weekly hours refer to the number of hours constituting a full week's work for the specified pay-period.

Weekly hours paid for refers to the hours for which payment was made. It comprises ordinary time hours (see below) and overtime hours, which are those in excess of ordinary time hours. Weekly hours paid for were not reported for managerial, executive, professional and higher supervisory staff.

Ordinary time hours refers to awards, standard or agreed hours of work. It includes stand-by or reporting time which are part of standard hours, and that part of paid annual leave, paid sick leave and long-service leave taken during the specified pay-period.

Weekly earnings refers to gross earnings before taxation and other deductions have been made. It comprises overtime earnings, which refers to payment for overtime hours as defined above, and ordinary time earnings, as defined below. It includes one week's proportion of payments made other than on a weekly basis, e.g. salary paid fortnightly or monthly and paid annual or other leave taken during the specified pay-period. Pay in advance, retrospective pay and annual or periodical bonuses, etc. are excluded.

Ordinary time earnings refers to that part of weekly earnings which is attributable to ordinary time hours, as defined above. It comprises award or agreed base rates of pay for ordinary time hours paid for, including all allowances (other than overtime) specified in the award, etc.; payment by measured result, i.e. payment by incentive, piecework, task bonus, commission, etc.; and other earnings, i.e. attendance and good timekeeping bonuses, profit-sharing and any other forms of over-award, etc. pay.

Median earnings is the amount which divides the distribution into two equal groups, one having earnings above the median and the other having earnings below it. Medians were calculated from grouped data, linear interpolation being used within the class interval in which the median fell.

Mean (or average) earnings is the amount obtained by dividing the total earnings of a group (e.g. full-time employees) by the number of employees in that group. In calculating the means in the tables on pages 283 and 285 it was assumed that observations were spaced evenly across class intervals, the mid-point of each interval being used in calculating group aggregates.

ALL EMPLOYEES(a): WEEKLY EARNINGS, AUSTRALIA, MAY 1975(b)(c)

| | | | Numbe | er ('0 00) | | Per cen | t of total | | Cumula total | tive per ce | ent of |
|-----------------------|---------|---|---------|--------------------|---------|---------|--------------------|---------|-----------------|-------------|------------------|
| Weekly earnin (\$) | ngs | | Males | Females | Persons | Males | Females | Persons | Males | Females | Persons |
| Under 10 . | | | 9.0 | 14.0 | 22.9 | 0.3 | 1.1 | 0.6 | 0.3 | 1.1 | 0.6 |
| 10 and unde | г 15 | | 9.7 | 13.1 | 22.8 | 0.4 | 1.0 | 0.6 | 0.7 | 2.1 | 1.1 |
| 15 ,, ,, | 20 | | 7.5 | 13.2 | 20.7 | 0.3 | 1.0 | 0.5 | 1.0 | 3.1 | 1.7 |
| 20 ,, ,, | 25 | | 9.6 | 13.5 | 23.1 | 0.4 | 1.0 | 0.6 | 1.3 | 4.1 | 2.2 |
| 25 ,, ,, | 30 | | 8.5 | 12.6 | 21.1 | 0.3 | 1.0 | 0.5 | 1.7 | 5.0 | 2.8 |
| 30 ,, ,, | 35 | | 7.5 | 12.4 | 19.9 | 0.3 | 0.9 | 0.5 | 1.9 | 6.0 | 3.3 |
| 35 ,, ,, | 40 | | 7.2 | 15.3 | 22.5 | 0.3 | 1.2 | 0.6 | 2.2 | 7.1 | 3.8 |
| 40 ,, ,, | 45 | | 11.4 | 19.1 | 30.5 | 0.4 | 1.4 | 0.8 | 2.6 | 8.6 | 4.6 |
| 45 ,, ,, | 50 | | 17.7 | 19.6 | 37.2 | 0.7 | 1.5 | 0.9 | 3.3 | 10.1 | 5.5 |
| 50 ,, ,, | 55 | | 23.0 | 36.3 | 59.3 | 0.9 | 2.7 | 1.5 | 4.2 | 12.8 | 7.0 |
| 55 ,, ,, | 60 | · | 21.9 | 28.3 | 50.2 | 0.8 | 2.1 | 1.3 | 5.0 | 14.9 | 8.3 |
| 60 ,, ,, | 65 | · | 20.9 | 31.4 | 52.3 | 0.8 | 2.4 | 1.3 | 5.8 | 17.3 | 9.6 |
| 65 ,, ,, | 70 | · | 20.1 | 31.2 | 51.3 | 0.8 | 2.4 | 1.3 | 6.5 | 19.7 | 10.9 |
| 70 | 80 | • | 39.4 | 74.3 | 113.7 | 1.5 | 5.6 | 2.8 | 8.0 | 25.3 | 13.7 |
| 80 | 90 | • | 50.5 | 79.5 | 130.0 | 1.9 | 6.0 | 3.3 | 9.9 | 31.3 | 17.0 |
| 00 " " | 100 | • | 70.0 | 136.1 | 206.1 | 2.6 | 10.3 | 5.2 | 12.5 | 41.7 | 22.1 |
| 100 | 110 | • | 145.3 | 182.6 | 327.9 | 5.4 | 13.8 | 8.2 | 17.9 | 55.5 | 30.3 |
| 110 " " | 120 | • | 213.5 | 166.2 | 379.6 | 8.0 | 12.6 | 9.5 | 25.9 | 68.1 | 39.8 |
| 120 | 130 | • | 255.4 | 137.1 | 392.5 | 9.5 | 10.4 | 9.8 | 35.4 | 78.5 | 49.6 |
| 130 " " | 140 | • | 252.4 | 83.5 | 335.9 | 9.4 | 6.3 | 8.4 | 44.8 | 84.8 | 58.0 |
| 140 | 150 | • | 241.0 | 53.8 | 294.8 | 9.0 | 4.1 | 7.4 | 53.8 | 88.9 | 65.4 |
| 150 | 160 | • | 199.5 | 40.3 | 239.8 | 7.4 | 3.1 | 6.0 | 61.3 | 91.9 | 71.4 |
| 160 " " | 180 | • | 323.0 | 51.4 | 374.4 | 12.1 | 3.9 | 9.4 | 73.3 | 95.8 | 80.8 |
| 100 " | 200 | • | 219.1 | 27.7 | 246.8 | 8.2 | 2.1 | 6.2 | 81.5 | 97.9 | 86.9 |
| 200 ′′ ′′ | 220 | • | 153.9 | 10.1 | 164.0 | 5.7 | 0.8 | 4.1 | 87.3 | 98.7 | 91.0 |
| 220 " | 240 | • | 108.2 | ١. | 116.0 | 4.0 | ٦ | | 91.3 | ` | 63.9 |
| 240 " " | 260 | • | 77.5 | -10.9 ح | 80.6 | 2.9 | ≻0.8 ر | 2.0 | 94.2 | | 96.0 |
| 260 " " | 280 | • | 45.1 | ₹ | 48.1 | 1.7 | | 1.2 | 95.9 | 1 | کر غرار 197.2 |
| 280 and over | | • | 110.0 | 6.3- | 113.3 | 4.1 | } ^{0.5} { | 2.8 | 100.0 | | 100.0 |
| Total | | | 2,677.8 | 1,319.6 | 3,997.4 | 100.0 | 100.0 | 100.0 | | | |
| | | | | | | llars— | | | | | |
| Median earnii | | | 145.80 | 106.00 | 130.50 | | | | | • • | |
| Mean earning | s. | | 154.60 | 104.50 | 138.20 | | | | | | • • |

⁽a) Full-time and part-time employees, including managerial, etc. staff. See page 282 for particulars of employees excluded from the survey. (b) The pay-period which included 30 May 1975. (c) Preliminary; subject to revision.

FULL-TIME EMPLOYEES OTHER THAN MANAGERIAL, ETC. STAFF: WEEKLY EARNINGS, AUSTRALIA, MAY 1975(a)(b)

| | Males | | | Females | | |
|---------------------------------------|--------------------|----------------------|------------------------------------|------------------|---|----------------------------------|
| Weekly earnings | Number ('000) | Per cent of total | Cumulative per cent of total | Number ('000) | Per cent of total | Cumulative per cen of tota |
| <u>\$</u> | AGI | ED 21 YEAR | S AND OVE | ER | • | |
| Under 50 | . 9.0 | 0.4 | 0.4 | 6.0 | 0.7 | 0.7 |
| 50 and under 55 | 1 | | (| 1.3 | 0.2 | 0.9 |
| 55 ,, ,, 60 | 4.9 | 0.2 | 0.7 | 1.7 | 0.2 | 1.1 |
| 60 ,, ,, 65 | . 2.9 | 0.1 | 0.8 | 2.1 | 0.3 | 1.3 |
| 65 ,, ,, 70 | . 2.4 | 0.1 | 1.0 | 3.8 | 0.5 | 1.8 |
| 70 ,, ,, 80 | . 7.8 | 0.4 | 1.3 | 16.2 | 1.9 | 3.8 |
| 80 ,, ,, 90 | . 14.2 | 0.7 | 2.0 | 30.5 | 3.7 | 7.4 |
| 90 ,, ,, 100 | . 38.0 | 1.9 | 3.9 | 96.8 | 11.7 | 19.1 |
| 100 ,, ,, 110 | . 115.5 | 5.7 | 9.7 | 156.2 | 18.8 | 37.9 |
| 110 ,, ,, 120 | . 192.0 | 9.5 | 19.2 | . 151.7 | 18.3 | 5 6.1 |
| 120 ,, ,, 130 | . 232.1 | 11.5 | 30.8 | 124.1 | 14.9 | 71.1 |
| 130 ,, ,, 140 | . 234.3 | 11.6 | 42.4 | 75.1 | 9.0 | 80.1 |
| 140 ,, ,, 150 | . 225.2 | 11.2 | 53.6 | 48.9 | 5.9 | 86.0 |
| 150 ,, ,, 160 | . 178.0 | 8.8 | 62.4 | 35.2 | 4.2 | 90.2 |
| 160 ,, ,, 180 | . 277.9 | 13.8 8.8 | 76.3 85.0 | 44.6 23.5 | 5.4 2.8 | 95.6 |
| 180 ,, ,, 200 200 ,, ,, 220 | . 176.9 . 113.0 | 5.6 | 90.7 | 6.6 | 0.8 | 98.4 99.2 |
| 220 " " 240 | . 74.1 | 3.7 | 94.37 | 0.0 | 0.8 | 99.2 |
| 240 200 | . 48.8 | 2.4 | 96.8 | 6.5 | 0.8 | 100.0 |
| 260 and over | . 65.0 | 3.2 | 100.0 | 0.5 | 0.0 | 100.0 |
| Total . | . 2,012.0 | 100.0 | | 830.7 | 100.0 | • • |
| , , , , , , , , , , , , , , , , , , , | | — dolla | ırs — | | | |
| Median earnings | . 146.80 | | | 116.60 | | |
| Mean earnings . | . 156.50 | | •• | 121.10 | | |
| | A | GED UNDE | R 21 YEARS | | | |
| Under 25 | . 0.9 | 0.4 | 0.4 | | | |
| 25 and under 30 | . 0.5 | 0.2 | 0.6 (| 2.2 | 1.0 | 1.0 |
| 30 ,, ,, 35 | . 0.6 | 0.2 | 0.8 | 2.2 | 1.0 | 1.0 |
| 35 ,, ,, 40 | . 0.6 | 0.3 | 1.1) | | | |
| 40 ,, ,, 45 | . 4.3 | 1.8 | 2.9 | 5.4 | 2.5 | 3.5 |
| 45 ,, ,, 50 | . 11.2 | 4.7 | 7.5 | 5.6 | 2.6 | 6.1 |
| 50 ,, ,, 55 | . 15.1 | 6.3 | 13.9 | 17.9 | 8.3 | 14.4 |
| 55 ,, ,, 60 60 ,, ,, 65 | . 13.3 | 5.6 5.6 | 19.4 25.0 | 10.3 13.7 | 4.8 6.3 | 19.1 25.5 |
| 66 70 | . 13.3 | 6.2 | 23.0 31.2 | 14.6 | 6.7 | 25.3 32.2 |
| 70 | . 25.6 | 10.7 | 41.9 | 35.6 | 16.4 | 48.6 |
| 90 " 00 | . 31.9 | 13.4 | 55.2 | 36.0 | 16.6 | 65.2 |
| 00 100 | . 28.5 | 11.9 | 67.2 | 30.4 | 14.0 | 79.3 |
| 100 ,, ,, 110 | . 26.8 | 11.2 | 78.4 | 19.0 | 8.8 | 88.0 |
| 110 ,, ,, 120 | . 17.2 | 7.2 | 85.6 | 11.4 | 5.2 | 93.3 |
| 120 ,, ,, 130 | . 9.7 | 4.0 | 89.6 | 8.4 | 3.9 | 97.2 |
| 130 ,, ,, 140 | . 9.5 | 4.0 | 93.6 | 2.7 | 1.2 | 98.4 |
| 140 ,, ,, 150 | . 4.6 | 1.9 | 95.57 | 3.4 | | |
| 150 and over . | . 10.7 | 4.5 | 100.0 | 3.4 | 1.6 | 100.0 |
| Total . | . 239.0 | 100.0 | • • | 216.5 | 100.0 | •• |
| MI W. | | - | | | | |
| | | — dolla | rs — | | | |
| Median earnings | . 86.00 | — dolla | rs — | 80.80 | | |

⁽a) The pay-period which included 30 May 1975. (b) Preliminary; subject to revision.

FULL-TIME EMPLOYEES PAID FOR A FULL WEEK (a), OTHER THAN MANAGERIAL, ETC. STAFF: WEEKLY EARNINGS, AUSTRALIA, MAY 1975 (b) (c)

| | Males | | | Females | | |
|----------------------------------|--------------------|----------------------|------------------------------------|------------------|----------------------|---------------------------------------|
| Weekly earnings (\$) | Number ('000) | Per cent of total | Cumulative per cent of total | Number ('000) | Per cent of total | Cumulative per cent of total |
| | AG | ED 21 YEAR | S AND OVE | R | | |
| Under 70 | . 3.4 | 0.2 | 0.2 | 4.7 | 0.6 | 0.6 |
| 70 and under 80 | . 2.6 | 0.1 | 0.3 | 10.1 | 1.3 | 1.9 |
| 80 " " 90 | . 5.0 | 0.3 | 0.6 | 21.8 | 2.8 | 4.7 |
| 90 " " 100 | . 26.4 | 1.4 | 2.0 | 87.1 | 11.3 | 16.0 |
| 100 " " 110 | . 98.9 | 5.4 | 7.4 | 147.5 | 19.1 | 35.1 |
| 110 120 | . 174.0 | 9.5 | 16.9 | 146.2 | 18.9 | 54.0 |
| 120 130 | . 213.9 | 11.6 | 28.5 | 119.8 | 15.5 | 69.6 |
| 130 170 | . 218.4 . 212.9 | 11.9 11.6 | 40.4 | 73.4 | 9.5 6.2 | 79.1 |
| 140 '' '' 150 150 '' '' 160 | 167.2 | 9.1 | 52.0 61.1 | 47.8 34.0 | 4.4 | 85.3 |
| 160 " " 180 . | 263.7 | 14.3 | 75.4 | 34.0 44.1 | 5.7 | 89.7 95.4 |
| 180 " " 200 | 167.0 | 9.1 | 84.5 | 23.2 | 3.0 | 98.4 |
| 200 " " 220 | 107.9 | 5.9 | 90.4 | 6.4 | 0.8 | 99.2 |
| 220 " " 240 | 70.7 | 3.8 | 94.2 | 4.5 | 0.6 | 99.8 |
| 240 " " 260 | 46.3 | 2.5 | 96.8 | 0.7 | 0.1 | 99.9 |
| 260 and over | 59.6 | 3.2 | 100.0 | 1.0 | 0.1 | 100.0 |
| Total | 1,837.7 | 100.0 | • • | 772.2 | 100.0 | •• |
| Median earnings | 148.30 158.80 | | | 117.90 123.30 | | · · · · · · · · · · · · · · · · · · · |
| | A(| GED UNDER | C 21 YEARS | <u> </u> | | |
| Under 40 | 0.8 | 0.4 | 0.4 | 0.9 | 0.5 | 0.5 |
| 40 and under 45 . | 3.4 | 1.6 | 1.9 | 5.2 | 2.5 | 2.9 |
| 40 00 . | 10.0 | 4.7 | 6.6 | 4.8 | 2.3 | 5.2 |
| 50 " " 55 . 55 " " 60 . | 13.0 11.9 | 6.1 5.6 | 12.7 18.2 | 17.3 10.0 | 8.3 4.8 | 13.5 18.3 |
| 60 " " 65 | 12.3 | 5.7 | 24.0 | 13.1 | 6.3 | 24.6 |
| 65 " " 70 . | 12.9 | 6.0 | 30.0 | 14.2 | 6.8 | 31.4 |
| 70 " " 80 . | 22.8 | 10.7 | 40.7 | 34.2 | 16.3 | 47.7 |
| 80 " " 90 | 29.7 | 13.9 | 54.5 | 35.1 | 16.8 | 64.5 |
| 90 " " 100 . | 26.2 | 12.2 | 66.8 | 30.0 | 14.3 | 78.8 |
| 1 00 " " 110 . | 23.6 | 11.0 | 77.8 | 18.7 | 8.9 | 87.7 |
| 110 " " 120 . | 15.8 | 7.4 | 85.2 | 11.2 | 5.3 | 93.1 |
| 120 " " 130 . | 8.9 | 4.2 | 89.3 | 8.4 | 4.0 | 97.1 |
| 130 " " 140 . | 9.1 | 4.2 | 93.6 | 2.7 | 1.3 | 98.4 |
| 140 " " 150 . | 3.9 | 1.8 | 95.4 | 3.4 | 1.6 | 100.0 |
| 150 and over | 9.9 | 4.6 | 100.0} | | | |
| Total | 214.3 | 100.0 | | 209.4 | 100.0 | |
| | | —dollars | _ | - | | |
| | | | | | | |
| Median earnings Mean earnings | 86.70 90.40 | | • • | 81.40 82.90 | • • | |

⁽a) Refers to employees whose ordinary time hours paid for were at least equal to their standard (or rostered) hours of work.

(b) The pay-period which included 30 May 1975.

(c) Preliminary; subject to revision.

COMPOSITION OF AVERAGE WEEKLY EARNINGS FULL-TIME EMPLOYEES OTHER THAN MANAGERIAL, ETC. STAFF: INDUSTRIES, AUSTRALIA, MAY 1975(a)(b)

(\$) Males Females Over- Ordinary Over- Ordinary ASIC industry time time(c) Total time time(c) Total AGED 21 YEARS AND OVER Manufacturing-Food, beverages and tobacco. 17.90 129.30 147.20 4.40 106.10 110.50 16.40 125.60 142.00 3.40 101.20 104.50 Textiles; clothing and footwear 12.50 145.70 158.10 3.70 109.60 113.30 Paper, printing, etc. 14.30 144.40 158.70 116.30 Chemical, petroleum and coal products . 2.20 118.50 Metal products, machinery and equipment-164.60 2.70 117.80 120.50 Basic metal products. 21.60 143.10 Fabricated metal products; machinery, etc.(d) . 16.60 129.90 146.50 4.50 107.90 112.30 143.90 107.00 Transport equipment. 10.50 133.30 3.10 110.10 133.90 149.70 108.70 Total . 15.90 4.00 112.70 . . 3.20 127.50 145.80 105.30 108.50 Other(e) 18.30 149.40 3.70 106.40 110.00 Total manufacturing 16.30 133.10 Non-manufacturing-Mining 40.10 169.10 209.20 7.00 124.60 131.50 Electricity, gas and water 10.60 156.70 167.30 1.60 130.70 132.30 Construction 16.30 142.90 159.20 2.10 118.50 120.60 Wholesale trade 9.10 134.50 143.70 2.30 113.00 115.20 Retail trade . 8.40 128.30 136.70 2.50 106.50 109.00 Transport and storage; communication . 18.40 150.10 168.50 5.20 127.60 132.80 152.40 119.20 4.50 147.90 0.90 118.30 Finance, business services Public administration and defence; community services(f) 159.70 137.40 6.50 166.20 1.90 135.50 15.80 130.60 146.40 4.60 110.60 115.30 Other(g)Total non-manufacturing . 147.10 160.20 2.40 123.40 125.80 13.10 Total all industries . 14.20 142.30 156.50 2.80 118.30 121.10 AGED UNDER 21 YEARS Manufacturing-9.50 85.00 94.50 2.30 74.90 77.20 Food, beverages and tobacco. Textiles; clothing and footwear 5.50 81.80 87.30 1.60 73.40 75.10 75.10 Paper, printing, etc. 4.70 84.50 89.20 1.40 73.70 Chemical, petroleum and coal products . 2.30 98.60 100.90 0.30 92.30 92.60 Metal products, machinery and equipment-91.90 76.60 Basic metal products . 5.90 86.10 76.60 Fabricated metal products; other 73.70 machinery, etc.(d) 79.80 1.20 79.30 80.50 6.10 1.70 Transport equipment . 79.30 74.20 81.70 72.50 2.40 Total . 5.20 77.30 82.60 1.10 78.30 79.40 . . Other(e) 75.60 6.30 78.40 84.70 2.10 77.70 Total manufacturing 5.90 79.90 85.80 1.60 76.20 77.80 Non-manufacturing-79.50 Mining 23.20 114.20 137.40 3.30 82.80 Electricity, gas and water 1.50 96.60 98.10 0.60 89.90 90.50 78.30 93.80 98.60 78.40 4.80 Construction Wholesale trade . 4.80 80.30 85.00 1.20 75.80 77.00 1.70 Retail trade . 3.90 73.30 77.20 68.40 70.00 Transport and storage; communication . 6.70 88.40 95.10 2.40 94.90 97.30 1.30 85.40 86.70 0.90 80.90 81.80 Finance, business services Public administration and defence; community services(f) 1.80 98.20 100.10 1.00 91.60 92.70 Other(g) 5.00 79.50 84.50 1.80 74.10 75.90 Total non-manufacturing . 4.40 86.20 90.60 1.30 81.30 82.60 4.90 Total all industries . 84.30 89.20 1.30 80.60 81.90

⁽a) The pay-period which included 30 May 1975. (b) Preliminary; subject to revision. (c) See page 283. (d) ASIC sub-divisions 31 and 33. (e) ASIC sub-divisions 25, 28 and 34 (wood, wood products and furniture; non-metallic mineral products; and miscellaneous manufacturing). (f) Excludes defence forces. (g) ASIC sub-divisions 03 and 04 (forestry and logging; fishing and hunting) and part of division L (entertainment, recreation, restaurants, hotels and personal services, excluding private households employing staff).

COMPOSITION OF AVERAGE WEEKLY HOURS PAID FOR FULL-TIME EMPLOYEES OTHER THAN MANAGERIAL, ETC. STAFF: INDUSTRIES, AUSTRALIA, MAY 1975 (a) (b)

| | Males | | | Femal | es | |
|--|------------|------------------|---------------------|------------|---------------------|--------------------|
| ASIC industry | Over- | Ordinary time | Total | Over- | Ordinary time | Tota |
| <u> </u> | | | | | | |
| AGED 21 | YEARS | AND OVE | ER | | | |
| Manufacturing— | | | | | | |
| Food, beverages and tobacco | 3.5 | 38.9 | 42.4 | 1.0 | 38.0 | 39. |
| Textiles; clothing and footwear | 3.5 | 39.1 | 42.6 | 0.9 | 38.3 | 39. |
| Paper, printing, etc | 2.2 | 39.3 | 41.5 | 0.8 | 37.8 | 38. |
| Chemical, petroleum and coal products. Metal products, machinery and equip- | 2.6 | 38.5 | 41.0 | 0.5 | 38.4 | 38. |
| ment— Basic metal products | 4.1 | 38.6 | 42.7 | 0.6 | 38.1 | 38. |
| Fabricated metal products; other | 4.1 | 50.0 | 72.7 | 0.0 | 30.1 | 30. |
| machinery, etc. (c) | 3.2 | 38.7 | 41.9 | 1.1 | 38.4 | 39. |
| Transport equipment | 1.9 | 38.9 | 40.8 | 0.7 | 37.8 | 38. |
| Total | 3.0 | 38.8 | 41.8 | 1.0 | 38.2 | 39. |
| Other (d) | 3.7 | 39.0 | 42.7 | 0.8 | 38.4 | 39. |
| Total manufacturing | 3.1 | 38.9 | 42.0 | 0.9 | 38.2 | 39. 39. |
| | 3.1 | 30.9 | 72.0 | 0.9 | 30.2 | 39. |
| Non-manufacturing— | | 27.0 | | | ** * | •• |
| Mining | 6.9 | 37.2 | 44.1 | 1.3 | 38.0 | 39. |
| Electricity, gas and water | 1.7 | 39.1 | 40.8 | 0.3 | 36.5 | 36. |
| Construction | 2.8 | 39.0 | 41.7 | 0.4 | 37.6 | 38. |
| Wholesale trade | 1.7 | 38.8 | 40.6 | 0.5 | 37.9 | 38. |
| Retail trade | 1.8 | 39.7 | 41.5 | 0.6 | 38.9 | 39. |
| Transport and storage; communication . | 3.2 | 38.8 | 41.9 | 1.0 | 37.3 | 38. |
| Finance, business services | 0.8 | 39.0 | 39.8 | 0.2 | 37.9 | 38. |
| Public administration and defence; com- | | | | | | |
| munity services (e) | 1.1 | 38.2 | 39.2 | 0.4 | 37.8 | 38. |
| Other (f) | 3.3 | 39.5 | 42.7 | 1.1 | 38.6 | 39. |
| Total non-manufacturing | 2.3 | <i>38.8</i> | 41.1 | 0.5 | <i>38.0</i> | <i>38</i> . |
| Total all industries | 2.6 | 38.8 | 41.4 | 0.6 | 38.1 | 38. |
| AGED | UNDER | 21 YEARS | | | | |
| Manufacturing— | | | | | | |
| Food, beverages and tobacco | 2.5 | 38.0 | 40.5 | 0.7 | 36.9 | 37. |
| Textiles; clothing and footwear | 1.5 | 38.7 | 40.3 | 0.6 | 38.3 | 38. |
| Paper, printing, etc | 1.2 | 39.6 | 40.9 | 0.4 | 38.3 | 38. |
| Chemical, petroleum and coal products . | 0.5 | 38.6 | 39.0 | 0.1 | 37.8 | 37. |
| Metal products, machinery and equip- ment— | | | | | | |
| Basic metal products | 1.5 | 38.5 | 40.0 | • • | 39.3 | 39. |
| Fabricated metal products; other | | | | | | |
| machinery, etc. (c) | 1.7 | 38.1 | 39.8 | 0.3 | 38.9 | 39. |
| Transport equipment | 0.7 | 38.7 | 39.4 | 0.6 | 37.8 | 38. |
| Total | 1.5 | 38.3 | 39.8 | 0.3 | 38.8 | 39. |
| Other (d) | 1.7 | 38.5 | 40.2 | 0.6 | 39.4 | 40. |
| Total manufacturing | 1.6 | 38.4 | 40.0 | 0.5 | <i>38.3</i> | 38. |
| Non-manufacturing— | | | | | | |
| Mining | 5.2 | 37.7 | 42.9 | 1.5 | 38.7 | 40. |
| Electricity, gas and water | 0.3 | 38.4 | 38.8 | 0.2 | 36.3 | 36. |
| Construction | 1.1 | 39.4 | 40.5 | • • • | 38.1 | 38. |
| Wholesale trade | 1.4 | 38.9 | 40.3 | 0.4 | 38.7 | 39. |
| Retail trade | 1.3 | 39.7 | 40.9 | 0.6 | 39.6 | 40. |
| Transport and storage; communication | 1.6 | 38.4 | 40.0 | 0.8 | 37.2 | 38. |
| Finance, business services | 0.3 | 38.4 39.1 | 39.4 | 0.8 | 38.8 | 39. |
| Public administration and defence; com- | 0.3 | 39.1 | 37.4 | 0.3 | 20.0 | J7. |
| | 0.4 | 27.0 | 38.3 | 0.3 | 20 1 | 38. |
| | 0.5 | 37.9 | | | 38.1 | |
| Other (<u>f</u>) | 1.7 | 38.1 | 39.8 <i>40.1</i> | 0.5 0.4 | 39.2 <i>38.6</i> | 39. <i>39</i> . |
| | | | | | 12 1 | 10 |
| Total non-manufacturing Total all industries | 1.2 1.3 | 38.9 38.7 | 40.1 | 0.4 | 38.6 | 39. |

⁽a) The pay-period which included 30 May 1975. (b) Preliminary; subject to revision. (c) ASIC sub-divisions 31 and 33. (d) ASIC sub-divisions 25, 28 and 34 (wood, wood products and furniture; non-metallic mineral products; and miscellaneous manufacturing). (e) Excludes defence forces. (f) ASIC sub-divisions 03 and 04 (forestry and logging; fishing and hunting) and part of division L (entertainment, recreation, restaurants, hotels and personal services, excluding private households employing staff).

Survey of income distribution 1973-74

In November 1974 a survey, based on the quarterly population survey (see the chapter Employment and Unemployment), was conducted throughout Australia in order to obtain information about the distribution of personal and family income within Australia. Some details of individuals' income are shown in the tables below. Further information can be obtained from the publication *Income Distribution*, 1973-74 Part 1 (Ref. No. 17.6) while details of family income, when available, will be contained in Part 2 of this series.

A similar survey was conducted in November 1969 of individual and family income received during 1968-69. Results of this survey are published in *Income Distribution* 1968-69, *Consolidated and Revised Edition* (Ref. No. 17.17).

The survey was based on a multi-stage area sample of private dwellings (about 20,000 houses, flats, etc.) and covered slightly less than one-half of one percent of the population of Australia. Questions were asked in respect of each person aged 15 years or over in the sample on the amount of income received in 1973-74 from each of the following sources: (1) money wages or salary; (2) own business, trade or profession (net income); (3) share in partnership (net income); (4) government social service benefits; (5) superannuation or annuity; (6) interest, dividends, rent, etc.; (7) other sources, e.g. trust or will, maintenance or alimony.

The following points should be kept in mind in interpreting the results.

- (i) For the purposes of the survey, income was defined to include (a) all income received while living in Australia, including income received from an overseas source and (b) all income received from an Australian source while living overseas.
- (ii) A person included in the survey in November 1974 who had lived outside Australia for the whole of 1973-74 was not asked the income questions. A person who had arrived in Australia towards the end of the reference year would have been recorded as receiving little or no income in Australia.
- (iii) The income received by a person does not necessarily reflect the standard of living of that person. For example, although alimony and maintenance payments were counted as income, gifts or donations such as might be made by relatives were not included, even though such gifts or donations may have been the sole means of support. No account was taken of the possible run-down of assets accumulated in the past.
- (iv) Some individuals may have received no income in 1973-74, they may, for example, have been at school or university, and in such cases their income would have been recorded as nil.
- (v) In many cases the answers to questions on income were based on memory, and frequently on the memory or knowledge of one person, generally the housewife. Some understatement in the estimates may be expected because of imperfect recall of minor or irregular sources of income.

Explanations of the terms used in the tables beginning on page 290 are given in the following paragraphs.

Earned income is income from wages or salary or income from own business, trade or profession or income from a share in a partnership, or the sum of any of these components. Recipients of earned income are referred to as 'income earners' or 'persons with earned income', as distinct from the all-inclusive term 'income recipients', which refers to persons who received income from any source. It should be noted that 'income earners' include some persons who were recorded as having earned income but for whom no duration of employment was shown. Many of these persons were reported as having received income from a share in a partnership.

Unearned income is income from government social service benefits or income from superannuation or annuity or income from interest, dividends, rent, etc. or income from other sources (e.g. a trust or will), or the sum of any of these components.

Median income is the amount which divides the distribution into two equal groups, one having income above the median and the other having income below it. Medians were calculated from grouped data. Linear interpolation was used within the class interval in which the median fell.

Mean income is the amount obtained by dividing the total income of a group (e.g. income earners, full-year, full-time workers) by the number of units in that group.

Standard errors. Since the estimates are based on a sample they are subject to sampling variability. The following table, while not giving a precise measure of the standard error of a particular estimate, does provide an indication of the magnitude.

APPROXIMATE STANDARD ERRORS OF ESTIMATES

| Size of | | Approxin standard of estima | error | Size of | Approximate standard error of estimates | | | |
|-----------------------|--|-----------------------------------|---------|-------------------------|---|---------|-------------------------|--|
| estimate (Persons) | | | Persons | Per cent of estimate | estimate (Persons) | Persons | Per cent of estimate | |
| 4,000 | | | 900 | 23.0 | 100,000 | 5,000 | 5.0 | |
| 5,000 | | | 1,000 | 20.4 | 200,000 | 7,200 | 3.6 | |
| 10,000 | | | 1,500 | 15.0 | 500,000 | 11,500 | 2.3 | |
| 20,000 | | | 2,200 | 11.0 | 1,000,000 | 17,000 | 1.7 | |
| 50,000 | | | 3,500 | 7.0 | 2,000,000 | 24,000 | 1.2 | |

Estimates less than 4,000 have not been shown in the tables as they would be subject to such high standard errors as to detract seriously from their value for most reasonable uses. Although such estimates may be derived by subtraction they should not be regarded as reliable.

Although income levels have risen considerably since 1973-74, the findings of the survey with regard to dispersion and relativity of income are still valuable. As a measure of the rise, average weekly earnings per employed male unit (a series which refers only to wage and salary earners and which is published quarterly in a mimeographed statement (6.18)) may be used as a rough guide. Average weekly earnings in 1973-74, 1974-75 and 1975-76 were \$118.00, \$148.20 and \$169.50 respectively.

LABOUR, WAGES AND PRICES

ALL INCOME RECIPIENTS(a): TOTAL INCOME, AUSTRALIA, 1973-74(b)

| 0 76.4 0 35.9 0 31.4 43.8 0 173.1 0 155.2 0 74.0 0 51.7 0 51.7 0 149.0 0 149.0 0 181.8 0 282.8 0 349.0 0 289.6 0 349.0 0 158.9 0 110.8 0 10.8 0 10. | 9 225.6 5 152.3 4 103.0 1 105.6 1 291.7 2 427.9 0 155.0 7 99.7 0 243.1 8 208.8 208.8 233.6 8 233.6 8 137.6 6 1.6 1 39.9 1 447.7 6 4.6 8 13.6 1 10.1 4 7.2 3 15.4 5 5 5.8 | 964.0 261.5 182.8 134.4 149.5 464.9 583.1 229.0 164.2 150.7 392.1 345.6 396.4 415.4 480.4 480.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | "" " " " " " " " " " " " " " " " " " " | 200 400 600 800 ,000 ,400 ,400 ,600 ,800 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 1.7 2.5 3.2 3.9 4.9 8.8 12.2 13.9 15.0 16.2 19.5 22.6 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 70.8 20.8 26.1 29.7 32.1 34.6 41.4 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | Persons 11.0 14.0 16.1 17.7 19.4 24.7 31.4 34.0 35.9 37.6 42.1 50.6 55.4 60.9 72.1 76.1 80.8 84.0 |
|---|---|--|---|--|--|--|--|
| 0 35.9 0 30.5 31.4 10 43.8 0 173.1 0 155.2 0 74.0 0 51.7 0 51.7 0 149.0 0 136.8 0 181.8 0 298.5 0 392.8 0 289.6 0 349.0 0 242.9 0 222.1 170.6 0 158.9 0 10.6 0 141.3 0 57.5 0 55.8 0 48.0 0 19.8 0 19.8 | 9 225.6 5 152.3 4 103.0 1 105.6 1 291.7 2 427.9 0 155.0 7 99.7 0 243.1 8 208.8 208.8 233.6 8 233.6 8 137.6 6 1.6 1 39.9 1 447.7 6 4.6 8 13.6 1 10.1 4 7.2 3 15.4 5 5 5.8 | 261.5 182.8 134.4 149.5 464.9 583.1 229.0 164.2 150.2 150.2 150.3 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | "" " " " " " " " " " " " " " " " " " " | 400 600 800 ,000 ,200 ,400 ,600 ,800 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 2.5 3.2 3.9 4.8 8.8 12.2 13.9 15.0 16.5 22.6 26.3 30.4 43.4 52.2 58.7 66.5 71.9 | 26.1 29.7 32.1 34.6 41.4 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 14.0 16.1 17.7 19.4 24.7 31.4 34.0 35.9 37.6 42.1 46.1 50.6 65.9 72.1 76.1 80.8 |
| 0 35.9 0 30.5 31.4 10 43.8 0 173.1 0 155.2 0 74.0 0 51.7 0 51.7 0 149.0 0 136.8 0 181.8 0 298.5 0 392.8 0 289.6 0 349.0 0 242.9 0 222.1 170.6 0 158.9 0 10.6 0 141.3 0 57.5 0 55.8 0 48.0 0 19.8 0 19.8 | 9 225.6 5 152.3 4 103.0 1 105.6 1 291.7 2 427.9 0 155.0 7 99.7 0 243.1 8 208.8 208.8 233.6 8 233.6 8 137.6 6 1.6 1 39.9 1 447.7 6 4.6 8 13.6 1 10.1 4 7.2 3 15.4 5 5 5.8 | 261.5 182.8 134.4 149.5 464.9 583.1 229.0 164.2 150.2 150.2 150.3 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | "" " " " " " " " " " " " " " " " " " " | 400 600 800 ,000 ,200 ,400 ,600 ,800 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 2.5 3.2 3.9 4.8 8.8 12.2 13.9 15.0 16.5 22.6 26.3 30.4 43.4 52.2 58.7 66.5 71.9 | 26.1 29.7 32.1 34.6 41.4 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 14.0 16.1 17.7 19.4 24.7 31.4 34.0 35.9 37.6 42.1 46.1 50.6 65.9 72.1 76.1 80.8 |
| 00 31.4 00 43.8 173.1 10 175.2 00 74.0 00 51.7 51.0 01 149.0 01 149.0 01 166.6 01 181.8 01 166.6 01 181.8 01 160.8 01 160.8 01 181.8 01 181.8 01 181.8 01 181.8 01 181.8 01 181.8 01 181.8 | 4 103.0 8 105.6 1 291.7 2 427.9 0 155.0 7 112.5 0 99.7 0 243.1 8 208.8 8 208.8 6 229.9 8 233.6 8 197.6 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 19.3 10.1 10.1 4 7.2 3 15.4 5 5 5 5.8 | 134.4 149.5 464.9 583.1 229.0 164.2 150.7 392.1 345.6 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | "" 1, " 1, " 1, " 1, " 2, " 3, " 3, " 4, " 5, " 6, " 6, " 7, " 8, " 8, " 9, | 800 ,000 ,200 ,600 ,800 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 3.9 4.9 8.8 12.2 13.9 15.0 16.2 19.5 22.6 26.3 30.4 52.2 58.7 66.5 71.9 76.9 | 32.1 34.6 41.4 51.4 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 17.7 19.4 24.7 31.4 34.0 35.9 37.6 42.1 46.1 50.6 65.9 72.1 80.8 |
| 00 43.8 00 173.1 175.2 00 74.0 00 51.7 00 51.0 00 149.0 136.8 00 166.6 00 166.6 00 166.6 00 166.0 00 1 | 8 105.6 1 291.7 2 427.9 0 155.0 7 112.5 0 99.7 0 243.1 8 6 229.9 8 233.6 8 197.6 5 139.9 8 147.7 6 64.6 6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 19.3 10.1 11.5 11.5 12.5 13.6 13.6 14.7 15.4 15.4 15.5 15.6 | 149.5 464.9 583.1 229.0 164.2 150.7 392.1 345.6 396.4 415.4 480.4 415.4 480.5 3540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | " 1, " 1, " 1, " 1, " 1, " 2, " 3, " 3, " 4, " 5, " 6, " 6, " 7, " 7, " 8, " 8, " 9, | ,000 ,200 ,400 ,600 ,600 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 4.9 8.8 12.2 13.9 15.0 16.2 19.5 22.6 26.3 30.4 52.2 58.7 66.5 71.9 76.9 | 34.6 41.4 51.4 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 19.4 24.7 31.4 34.0 35.9 37.6 42.1 46.1 50.6 55.4 60.9 65.9 72.1 80.8 |
| 0 173.1 0 155.2 74.0 0 51.7 0 51.7 0 149.0 136.8 0 181.8 0 282.8 0 298.5 0 298.5 0 222.1 170.6 0 110.8 0 141.3 0 57.5 0 55.8 48.0 19.8 48.0 | 1 291.7 2 427.9 0 155.0 0 99.7 0 243.1 8 208.8 8 229.9 8 233.6 8 137.6 5 139.9 8 147.7 6 44.6 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 4 5 5 5.8 | 464.9 583.1 229.0 164.2 150.7 392.1 345.6 396.4 480.4 488.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | , 1, , 1, , 1, , 1, , 2, , 3, , 4, , 4, , 5, , 6, , 7, , 7, , 8, , 8, , 9, | 200 ,400 ,600 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 8.8 12.2 13.9 15.0 16.2 19.5 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 41.4 51.4 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 24.7 31.4 34.0 35.9 37.6 42.1 46.1 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 0 155.2 74.0 74.0 151.7 10 51.0 149.0 136.8 166.6 181.8 0 282.8 0 298.5 0 392.8 0 349.0 0 242.9 0 222.1 170.6 158.9 10.6 141.3 0 57.5 0 55.8 0 48.0 19.8 0 19.8 | 2 427.9 0 155.0 7 192.5 0 99.7 0 243.1 8 208.8 6 229.9 8 233.6 5 139.9 8 147.7 6 64.6 6 61.8 9 32.2 1 29.9 6 19.3 9 19.6 10.1 4 7.2 3 15.4 5 5.8 | 583.1 229.0 164.2 150.7 392.1 345.6 396.4 415.4 480.4 480.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | , 1, , 1, , 1, , 1, , 2, , 2, , 3, , 4, , 4, , 5, , 6, , 7, , 8, , 8, , 9, | ,400 ,600 ,800 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 12.2 13.9 15.0 16.2 19.5 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 51.4 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 31.4 34.0 35.9 37.6 42.1 46.1 50.6 55.4 60.9 72.1 76.1 80.8 |
| 0 155.2 74.0 74.0 151.7 10 51.0 149.0 136.8 166.6 181.8 0 282.8 0 298.5 0 392.8 0 349.0 0 242.9 0 222.1 170.6 158.9 10.6 141.3 0 57.5 0 55.8 0 48.0 19.8 0 19.8 | 0 155.0 7 112.5 99.7 0 243.1 8 208.8 6 229.9 8 233.6 5 139.9 8 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 10.1 4 7.2 3 15.4 4.5 5 5.8 | 229.0 164.2 150.7 392.1 345.6 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | , 1, , 1, , 1, , 2, , 2, , 3, , 3, , 4, , 5, , 6, , 6, , 7, , 7, , 8, , 8, , 9, | ,600 ,800 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 12.2 13.9 15.0 16.2 19.5 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 55.1 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 34.0 35.9 37.6 42.1 46.1 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 51.7 51.0 51.0 149.0 0 136.8 0 166.6 0 181.8 0 282.8 298.5 0 392.8 0 289.6 0 349.0 0 242.9 170.6 0 158.9 110.8 0 90.1 41.3 0 90.1 141.3 0 90.1 141.3 0 90.1 141.8 0 90.1 141.8 141.8 141.8 158.9 168.9 170.6 188.9 188.9 198. | 7 112.5 0 99.7 0 243.1 8 208.8 6 229.9 8 233.6 8 197.6 5 139.9 8 147.7 6 64.6 0 61.8 9 32.2 1 29.9 9 19.6 13.6 1 10.1 4 7.2 3 15.4 4.5 5 5.8 | 164.2 150.7 392.1 345.6 396.4 415.4 480.4 480.5 3540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | , 1, , 1, , 2, , 2, , 3, , 4, , 4, , 5, , 6, , 6, , 7, , 8, , 8, , 8, | ,800 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 15.0 16.2 19.5 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 57.7 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 35.9 37.6 42.1 46.1 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 51.00 149.0 136.8 0 166.6 0 181.8 0 282.8 0 298.5 0 392.8 0 289.6 0 349.0 0 242.9 0 222.1 170.6 0 110.8 0 90.1 411.3 0 57.5 0 55.8 48.0 0 19.8 | 0 99.7 0 243.1 208.8 8 229.9 8 233.6 8 197.6 5 139.9 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 4 5 5 5.8 | 150.7 392.1 345.6 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | , 1, , 2, , 3, , 4, , 4, , 5, , 6, , 7, , 7, , 8, , 8, , 9, | ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 16.2 19.5 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 37.6 42.1 46.1 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 51.00 149.0 136.8 0 166.6 0 181.8 0 282.8 0 298.5 0 392.8 0 289.6 0 349.0 0 242.9 0 222.1 170.6 0 110.8 0 90.1 411.3 0 57.5 0 55.8 48.0 0 19.8 | 0 99.7 0 243.1 208.8 8 229.9 8 233.6 8 197.6 5 139.9 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 4 5 5 5.8 | 150.7 392.1 345.6 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | 2, 2, 2, 3, 3, 3, 4, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 8, 9, 9, | ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 16.2 19.5 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 60.0 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 37.6 42.1 46.1 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 0 149.0 136.8 166.6 0 181.8 0 282.8 0 298.5 392.8 0 349.0 0 242.9 0 222.1 170.6 0 158.9 0 190.1 141.3 0 57.5 0 57.5 0 19.8 0 19.8 0 48.0 0 19.8 0 | 0 243.1 8 208.8 6 229.9 6 233.6 8 197.6 5 139.9 8 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 5.8 | 392.1 345.6 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | 2, ,, 3, ,, 4, ,, 4, ,, 5, ,, 6, ,, 7, ,, 7, ,, 8, ,, 8, | ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 65.7 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 46.1 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 136.8 166.6 181.8 182.8 192.8 192.8 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 193.9 194.9 | 8 208.8 6 229.9 8 233.6 8 197.6 5 139.9 8 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 10.1 4 7.2 3 15.4 4.5 5 5.8 | 345.6 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 | 3, 3, 4, 4, 5, 6, 7, 8, 8, 9, | ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 | 22.6 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 70.6 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 46.1 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 0 166.6 0 181.8 0 282.8 0 282.8 0 298.5 0 392.8 0 289.6 0 349.0 0 242.9 0 170.6 158.9 0 90.1 160.6 141.3 0 57.5 0 59.5 0 59.5 0 19.8 8.4 | 66 229.9 8 233.6 197.6 139.9 8 147.7 6 64.6 0 61.8 9 32.2 29.9 6 19.3 9 19.6 8 13.6 1 10.1 7.2 3 15.4 4.5 5 5.8 | 396.4 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | 3, ,, 4, ,, 5, ,, 6, ,, 6, ,, 7, ,, 7, ,, 8, ,, 8, | ,500 ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 26.3 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 76.0 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 50.6 55.4 60.9 65.9 72.1 76.1 80.8 |
| 0 181.8 0 282.8 298.5 0 392.8 0 289.6 0 242.9 0 242.9 170.6 0 170.8 0 101.8 0 90.1 141.3 0 57.5 0 59.5 0 19.8 48.0 19.8 48.0 19.8 48.0 19.8 48.0 | 8 233.6 8 197.6 5 139.9 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 13.6 1 10.1 4 7.2 3 15.4 4.5 5 5.8 | 415.4 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | , 4, ,, 4, ,, 5, ,, 5, ,, 6, ,, 6, ,, 7, ,, 7, ,, 8, ,, 8, | ,000 ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 30.4 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 81.5 86.1 89.4 92.9 94.4 95.6 96.6 | 55.4 60.9 65.9 72.1 76.1 80.8 |
| 282.8 298.5 392.8 0 289.6 0 349.0 0 242.9 0 222.1 170.6 0 158.9 110.8 0 90.1 0 63.4 141.3 0 57.5 0 55.8 48.0 19.8 48.0 19.8 48.0 | 8 197.6 5 139.9 8 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 480.4 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | , 4, ,, 5, ,, 6, ,, 6, ,, 7, ,, 8, ,, 8, ,, 9, | ,500 ,000 ,500 ,000 ,500 ,000 ,500 | 36.7 43.4 52.2 58.7 66.5 71.9 76.9 | 86.1 89.4 92.9 94.4 95.6 96.6 | 60.9 65.9 72.1 76.1 80.8 |
| 298.5 392.8 392.8 289.6 0 349.0 242.9 0 222.1 170.6 158.9 0 110.8 90.1 141.3 57.5 57.5 50 55.8 0 48.0 19.8 18.2 | 5 139.9 8 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 4.5 5 5.8 | 438.3 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | , 5, ,, 5, ,, 6, ,, 7, ,, 7, ,, 8, ,, 8, | ,000 ,500 ,000 ,500 ,000 ,500 | 43.4 52.2 58.7 66.5 71.9 76.9 | 89.4 92.9 94.4 95.6 96.6 | 65.9 72.1 76.1 80.8 |
| 392.8 399.6 349.0 0 242.9 0 222.1 0 170.6 158.9 0 90.1 0 63.4 141.3 0 57.5 0 59.5 0 19.8 0 18.2 | 8 147.7 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 4.5 5 5.8 | 540.5 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | ,, 5, ,, 6, ,, 6, ,, 7, ,, 7, ,, 8, ,, 8, ,, 9, | ,500 ,000 ,500 ,000 ,500 ,000 | 52.2 58.7 66.5 71.9 76.9 | 92.9 94.4 95.6 96.6 | 72.1 76.1 80.8 |
| 0 289.6 0 349.0 242.9 0 222.1 0 170.6 0 158.9 0 110.8 0 90.1 10 63.4 0 141.3 0 57.5 0 59.5 0 19.8 48.0 0 19.8 1 | 6 64.6 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 354.2 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | ,, 6, ,, 6, ,, 7, ,, 7, ,, 8, ,, 8, | ,000 ,500 ,000 ,500 ,000 | 58.7 66.5 71.9 76.9 | 94.4 95.6 96.6 | 76.1 80.8 |
| 349.0 242.9 222.1 170.6 0 158.9 110.8 0 90.1 63.4 0 441.3 0 57.5 0 59.5 0 19.8 48.0 19.8 48.0 19.8 48.0 19.8 48.0 19.8 | 0 61.8 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 410.8 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | ,, 6, ,, 7, ,, 7, ,, 8, ,, 8, ,, 9, | ,500 ,000 ,500 ,000 | 66.5 71.9 76.9 | 95.6 96.6 | 80.8 |
| 242.9 222.1 170.6 0 158.9 0 110.8 0 90.1 0 63.4 141.3 0 57.5 0 55.8 0 48.0 19.8 0 18.2 | 9 32.2 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 275.1 252.0 189.9 178.5 124.3 100.2 70.6 | ,, 7, ,, 7, ,, 8, ,, 8, ,, 9, | ,000 ,500 ,000 | 71.9 76.9 | 96.6 | |
| 222.1 170.6 158.9 0 110.8 0 90.1 0 63.4 141.3 0 57.5 0 59.5 0 19.8 0 18.2 | 1 29.9 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 252.0 189.9 178.5 124.3 100.2 70.6 | ,, 7, ,, 8, ,, 8, ,, 9, | 500 000 | 76.9 | | 07.0 |
| 0 170.6 0 158.9 0 110.8 90.1 0 63.4 0 141.3 0 57.5 0 59.5 0 55.8 0 19.8 0 18.2 | 6 19.3 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 189.9 178.5 124.3 100.2 70.6 | ,, 8, ,, 8, ,, 9, | 000 | | | 86.9 |
| 158.9 110.8 90.1 0 63.4 0 141.3 0 57.5 0 59.5 0 59.5 0 19.8 0 18.2 | 9 19.6 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 178.5 124.3 100.2 70.6 | ,, 8, ,, 9, | | | 97.7 | 89.0 |
| 0 110.8 0 90.1 0 63.4 141.3 57.5 0 59.5 0 59.5 0 48.0 0 19.8 0 18.2 | 8 13.6 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 124.3 100.2 70.6 | ,, 9, | 5AA | 84.3 | 98.2 | 91.1 |
| 90.1 63.4 0 141.3 0 57.5 0 59.5 0 48.0 0 19.8 0 18.2 | 1 10.1 4 7.2 3 15.4 5 4.5 5 5.8 | 100.2 70.6 | ^. | ,000 | 86.8 | 98.5 | 92.5 |
| 0 63.4 0 141.3 0 57.5 0 59.5 0 55.8 0 48.0 0 19.8 0 18.2 | 4 7.2 3 15.4 5 4.5 5 5.8 | 70.6 | | | 88.8 | 98.7 | 93.6 |
| 141.3 57.5 59.5 59.5 55.8 0 48.0 0 19.8 0 18.2 0 8.4 | 3 15.4 5 4.5 5 5.8 | | | 500 | 90.2 | 98.7 | 94.5 |
| 57.5 59.5 59.5 55.8 0 48.0 19.8 0 18.2 0 8.4 | 5 4.5 5 5.8 | 156.6 | | 000 | 93.4 | 99.3 | 96.2 |
| 59.5 55.8 6 48.0 19.8 6 18.2 7 8.4 | 5 5.8 | | | | 94.6 | 99.3 99.4 | 97.0 |
| 55.8 0 48.0 0 19.8 0 18.2 0 8.4 | | 62.0 | | ,000 | | | |
| 0 48.0 0 19.8 0 18.2 0 8.4 | ð 8./ | 65.4 | " 16 | 000 | 96.0 | 99.5 | 97.7 |
|) 19.8) 18.2) 8.4 | | 64.5 | | 000 | 97.2 | 99.7 | 98.4 |
|) 18.2) 8.4 | | 53.1 | | | 98.3 | 99.9 | 99.1 |
| 8.4 | | | | | | | 99.3 |
| | | | | | | | 99.5 |
|) 77 | | | | | | | 99.6 |
| . ,,, | 7 } | 7.8 | ,, 25, | 000 | 99.5 | 99.9 | 99.7 |
| | 0 | 10.8 | 30 | 000 | 99 7 | 100.0 | 99.8 |
| | | | " | | | | 99.9 |
| , 7.9 | * ۱ | | ,, 55, | 000 | 77.0 | 100.0 | ,,,, |
| | - | • | Tota | _ | 100.0 | 100.0 | 100.0 |
|)) | 19. 18. 8. 7. 9. 5. | 19.8 18.2 8.4 7.7 9.0 5.1 7.9 4.466.8 4.265.6 | $ \begin{array}{c cccc} 19.8 \\ 18.2 \\ 8.4 \\ 7.7 \\ 9.0 \\ 5.1 \\ 7.9 \end{array} $ $ \begin{array}{c} 22.2 \\ 19.3 \\ 8.4 \\ 7.8 \\ 10.8 \\ 5.4 \\ 7.9 \end{array} $ | 19.8 18.2 8.4 7.7 9.0 5.5 22.2 19.3 8.4 7.8 23, 7.8 10.8 30, 5.1 7.9 10.8 8.3 30, 31, 31, 32, 33, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 30, 30, 30, 30, 30, 30, 30, 30 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

⁽a) Non-institutional population aged 15 years and over. (b) For definitions see page 288. (c) From all sources. * Less than 4,000. See comment on standard errors, page 289.

SURVEY OF INCOME DISTRIBUTION 1973-74

PERSONS WITH EARNED INCOME(a): EARNED INCOME, 1973-74(b)

| Earned | | | | Number (| (000) | | Earned | | tive per cen me earne <mark>r</mark> s | it of |
|----------------|-------|-------|--------|----------|---------|-----------|----------------|-------|---|---------|
| income (\$) | | | | Males | Females | Persons | income (\$) | Males | Females | Persons |
| 1 | and | under | 200 | 69.3 | 124.4 | 193.7 | Under 200 | 1.7 | 5.3 | 3.0 |
| 200 | ,, | ,, | 400 | 49.6 | 112.2 | 161.7 | ,, 400 | 3.0 | 10.0 | 5.6 |
| 400 | ,, | ,, | 600 | 38.7 | 95.1 | 133.8 | ,, 600 | 3.9 | 14.1 | 7.7 |
| 600 | ,, | ,, | 800 | 33.7 | 79.7 | 113.4 | ,, 800 | 4.8 | 17.4 | 9.5 |
| 800 | ,, | ,, | 1,000 | 42.7 | 77.1 | 119.8 | ,, 1,000 | 5.8 | 20.7 | 11.4 |
| 1,000 | ,, | ,, | 1,200 | 58.6 | 89.2 | 147.8 | ,, 1,200 | 7.3 | 24.5 | 13.7 |
| 1,200 | ,, | ,, | 1,400 | 36.1 | 79.3 | 115.4 | ,, 1,400 | 8.2 | 27.8 | 15.5 |
| 1,400 | ,, | ,, | 1,600 | 38.8 | 73.2 | 112.0 | ,, 1,600 | 9.2 | 30.9 | 17.3 |
| 1,600 | ,, | ,, | 1,800 | 31.9 | 57.2 | 89.1 | ,, 1,800 | 10.0 | 33.3 | 18.7 |
| 1,800 | ,, | ٠,, | 2,000 | 29.5 | 61.7 | 91.2 | ,, 2,000 | 10.7 | 36.0 | 20.1 |
| 2,000 | ,, | ,, | 2,500 | 108.8 | 182.2 | 291.0 | ,, 2,500 | 13.4 | 43.7 | 24.7 |
| 2,500 | ,, | ,, | 3,000 | 115.4 | 181.8 | 297.2 | ,, 3,000 | 16.3 | 51.4 | 29.3 |
| 3,000 | ,, | ,, | 3,500 | 151.6 | 206.4 | 358.0 | ,, 3,500 | 20.1 | 60.1 | 35.0 |
| 3,500 | ,, | ,, | 4,000 | 175.3 | 219.6 | 394.9 | ,, 4,000 | 24.5 | 69.4 | 41.2 |
| 4,000 | ,, | ** | 4,500 | 278.3 | 185.8 | 464.1 | ,, 4,500 | 31.4 | 77.3 | 48.5 |
| 4,500 | ** | ,, | 5,000 | 287.4 | 133.1 | 420.5 | ,, 5,000 | 38.6 | 82.9 | 55.1 |
| 5,000 | ,, | ,, | 5,500 | 393.7 | 133.2 | 526.9 | ,, 5,500 | 48.5 | 88.6 | 63.3 |
| 5,500 | ,, | ** | 6,000 | 280.7 | 62.1 | 342.8 | ,, 6,000 | 55.5 | 91.2 | 68.7 |
| 6,000 | ,, | ,, | 6,500 | 343.3 | 57.5 | 400.8 | ,, 6,500 | 64.1 | 93.6 | 75.0 |
| 6,500 | ** | ,, | 7,000 | 236.8 | 27.8 | 264.6 | ,, 7,000 | 70.0 | 94.8 | 79.3 |
| 7,000 | ** | ,, | 7,500 | 219.3 | 21.7 | 241.0 | ,, 7,500 | 75.5 | 95.7 | 83.0 |
| 7,500 | ,, | ,, | 8,000 | 165.8 | 20.2 | 186.0 | ,, 8,000 | 79.6 | 96.6 | 85.9 |
| 8,000 | ** | ** | 8,500 | 154.4 | 19.7 | 174.1 | ,, 8,500 | 83.5 | 97.4 | 88.6 |
| 8,500 | ,, | ** | 9,000 | 106.7 | 14.5 | 121.2 | ,, 9,000 | 86.1 | 98.0 | 90.5 |
| 9,000 | ** | ,, | 9,500 | 83.7 | 6.3 | 90.0 | ,, 9,500 | 88.2 | 98.3 | 92.0 |
| 9,500 | " | " | 10,000 | 59.8 | 5.3 | 65.1 | ,, 10,000 | 89.7 | 98.5 | 93.0 |
| 10,000 | ** | ** | 11,000 | 143.9 | 14.3 | 158.3 | ,, 11,000 | 93.3 | 99.1 | 95.5 |
| 11,000 | ,, | ,, | 12,000 | 52.4 | • | 55.9 | ,, 12,000 | 94.6 | 99.2 | 96.3 |
| 12,000 | ,, | ,, | 13,000 | 56.5 | 5.5 | 62.0 | ,, 13,000 | 96.0 | 99.5 | 97.3 |
| 13,000 | ,, | ,, | 15,000 | 50.5 | 5.7 | 56.2 | ,, 15,000 | 97.3 | 99.7 | 98.2 |
| 15,000 | ,, | ,, | 17,000 | 40.2ገ | 4.3 | ∫43.3 | ,, 17,000 | 98.3 | 99.9 | 98.9 |
| 17,000 | ,, | ,, | 19,000 | ر 20.0 | • 4.3 | Ղ21.2 | ,, 19,000 | 98.8 | 99.9 | 99.2 |
| 19,000 | ** | ,, | 21,000 | 19.0ๅ | | (19.4 | ,, 21,000 | 99.3 | 99.9 | 99.5 |
| 21,000 | ,, | ,, | 23,000 | 4.8 | | 4.8 | ,, 23,000 | 99.4 | 99.9 | 99.6 |
| 23,000 | ,, | ,, | 25,000 | 5.3 | | 5.9 | ,, 25,000 | 99.5 | 99.9 | 99.7 |
| 25,000 | ,, | ,, | 30,000 | 7.0 | | 7.1 | ,, 30,000 | 99.7 | 99.9 | 99.8 |
| 30,000 | ,, | ,, | 35,000 | 6.0 | | 6.3 | ,, 35,000 | 99.8 | 100.0 | 99.9 |
| 35,000 | and (| over | | 6.2) | | (6.6 | | | | |
| · | Total | | | 4,001.5 | 2,361.4 | 6,362.9 | Total | 100.0 | 100.0 | 100.0 |
| | | | | | | —dollars— | | | | |
| Median | inco | me | | 5,610 | 2,910 | 4,620 | | | | |
| Mean i | | | | 5,990 | 3,060 | 4,900 | | | • | |

⁽a) Non-institutional population aged 15 years and over. (b) For definitions see page 288.

Less than 4,000. See comment on standard errors, page 289.

LABOUR, WAGES AND PRICES

PERSONS WITH UNEARNED INCOME (a): BY SOURCE, 1973-74 (b)

| 1 and under 50 | | | | | | | Governme social serv | ent vice benefits | · | Interest, | dividends, re | ent, etc. |
|---|---|--------|----------------|------------------|------------------|-------------|-------------------------|----------------------|---------------------------------------|-------------------|--------------------------|-----------|
| 1 and under 50 | | from | source s | showi | 1 | | Males | Females | Persons | Males | Females | Person |
| 100 | | | | | _ | | | | -,000- | | | |
| 100 | 1 and u | ındei | 50 | | | | 27.0 | 496.8 | 523.8 | 635.3 | 582.1 | 1,217.4 |
| 150 2000 | 50 | | 100 | | | | 18.1 | 653.8 | 671.9 | 180.9 | | 306.4 |
| 130 | 100 | | | | | | 23.1 | 99.8 | 122.9 | 94.0 | 70.2 | 164.2 |
| 1300 1300 134.3 149.3 27.7 25.8 300 1300 134.3 149.3 27.7 25.8 300 1300 134.3 149.3 27.7 25.8 300 1300 134.3 149.3 27.7 25.8 300 1300 22.3 35.1 57.4 44.0 36.2 27.0 500 1600 17.7 35.9 53.6 30.2 26.2 26.0 17.0 26.0 19.1 19.6 38.6 15.7 14.0 200 19.1 19.6 38.6 15.7 14.0 200 19.1 19.6 38.6 15.7 14.0 200 16.9 19.9 36.8 8.9 13.7 200 208.1 234.5 442.6 28.8 16.8 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 130.2 410.2 540.4 15.7 9.6 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 1.300 17.2 17 | | | | | | | | | | | | 90.3 |
| 300 | | | | | | | | | | | | 95.5 |
| 1 and under 1,070 180 250 50 40 410 | 230 | | | | | | | | | | | 53.5 |
| 1.00 | 300 | | | | • | | | | | | | 80.2 |
| 1 and under 1,070 180 250 50 40 410 | 400 | | | • | | • | | | | | | 63.6 |
| 700 " 800 | 500 | | | | • | | | | | | | 56.3 |
| 800 " " 900 | 000 | | | • | • | | | | | | | 29.7 |
| 1,100 208.1 234.5 442.6 28.8 16.8 1,100 1,100 130.2 410.2 540.4 15.7 9.6 1,300 130.2 410.2 540.4 15.7 9.6 1,300 130.2 410.2 540.4 15.7 9.6 1,300 1,300 36.4 65.6 101.9 7.0 5.1 1,500 31.7 63.3 95.0 20.9 17.2 2,2000 31.7 63.3 95.0 20.9 17.2 2,2000 7.0 7.0 6,000 6.7 6.1 12.7 16.6 11.9 4,000 6.7 6.1 12.7 16.6 11.9 4,000 7.0 6,000 | | | | | • | • | | | | | | 33.3 |
| 1,100 | 000 | | | | | • | | | | | | 22.5 |
| 1,300 1,500 36.4 65.6 101.9 7.0 5.1 ,500 2,000 31.7 63.3 95.0 20.9 17.2 ,500 3,000 28.3 40.2 68.5 26.8 22.7 ,500 3,000 28.3 40.2 68.5 26.8 22.7 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 ,500 | 700 | | | • | | | | | | | | 45.6 |
| 1,500 | 1,100 | | | • | • | | | | | | | 25.3 |
| 1 and under 50 | 1,500 | | | | • | • | | | | | | 12.1 |
| 3,000 | | | | • | • | • | | | | | | 38.1 |
| A,000 | 2,000 | | | | • | • | | | | | | 49.5 |
| Solution | 3,000 | | | | | • - | 6.7 | 6.1 | 12.7 | | | 28.5 |
| Total | | | | • | • | •] | | _ | | | | 15.9 |
| Median income 1,070 180 250 50 40 | 2,000 | | 6,000 | | | ٠ ٢ | • | • | 4.2 | | | 17.2 |
| Median income 1,070 180 250 50 40 Mean income 980 490 590 440 410 Superannuation, annuity Other income | 6,000 and 6 | over | | • | • | ر. | | | | [14.3 | 10.8 | 25.1 |
| Median income 1,070 180 250 50 40 Mean income Superannuation, annuity Other income All income from source shown Males Females Persons Males Females Persons —"000— 1 and under 50 * 6.7 10.6 5.3 7.4 50 "" 100 4.5 4.2 8.7 5.6 4.4 100 "" 150 4.6 4.6 7.0 4.4 4.5 150 "" 200 4.3 5.0 4.3 4.3 4.3 4.5 250 "" 300 4.3 5.0 4.1 4.3 4.3 4.5 300 "" 400 5.0 4.9 9.9 4.9 6.6 6.6 400 "" 500 1.5 5.5 8.5 5.7 5.9 5.9 500 "" 600 1.0 4.1 4.1 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 6.6 6.2 8.6 6.2 8.6 6.2 8.6 6.2 </td <td>Total</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td><u>:</u></td> <td>684.7</td> <td>2,757.4</td> <td>3,442.1</td> <td>1,354.1</td> <td>1,116.1</td> <td>2,470.1</td> | Total | • | • | • | • | <u>:</u> | 684.7 | 2,757.4 | 3,442.1 | 1,354.1 | 1,116.1 | 2,470.1 |
| Mean income Superannuation, annuity Other income | | | | | | | | | | | | |
| Superannuation, annuity Other income | | | • | • | • | • | | | | | | 50 |
| All income from source shown (\$) Males Females Persons Males Females Per -'000— 1 and under 50 | Mean inco | me | • | • | • | • | 980 | 490 | 590 | 440 | 410 | 430 |
| 1 and under 50 | | from | source s | showi | ! | | Males | Females | Persons | Males | Females | Persons |
| 50 " " 100 | | | | | | | | | | | | |
| 100 " " 150 | | | | | | • | | | | | | 12.7 |
| 150 " " 200 | | | | • | • | 1. | 4.5 | 4.2 | | 5.6 | | 10.0 |
| 130 | 100 | | | • | | ٠). | 4.6 | . | . > | 4.4 | | 5.7 |
| 250 " " 300 | | | | • | • | ٠.١ | *** | (4.6 | - 4 | | (| 6.1 |
| 300 " " 400 | 200 | | | ٠ | | ٠, ٢ | 4.3 | 5.0 | | 4.3 | J 4.5 | 7.8 |
| 400 " " 500 | 230 | | | • | • | ر . | | | (| | } . | |
| 400 | 300 | | | ٠ | • | ٠, | 5.0 | 4.9 | | 4.9 | | 10.3 |
| Solution | 400 | | | • | • | ٠, ٢ | 5.5 | ₹ . I | | | | 7.1 |
| 700 | 300 | | | • | • | ر. | _ | (3.3 | | 5.6 | ه.ه ل | 11.8 |
| 800 " " 900 | 000 | | | • | • | • | | | | | ٠, ٢ | 5.5 |
| 900 " " 1,100 | 700 | | | • | • | • | | 6.2 | 1 > | • | Į 4.9 | 6.1 |
| 1,100 " 1,300 | 000 | | | • | • | • | | | C | 4 7 | ر خ | |
| 1,300 " 1,500 4.4 6.2 6.7 5.3 7.5 1,500 " 2,000 12.9 6.2 16.8 8.4 2,000 " 3,000 11.1 7.7 18.8 5.3 7.5 3,000 " 4,000 12.5 6.0 6.3 4,000 " 5,000 5.6 4.2 6.3 6,000 and over 7 7 7 7 7 Total 13.4 68.3 181.7 52.9 97.8 1 Median income 1,250 550 910 540 620 | | | | • | • | • | /. 0 } | 6.7 | | 4.7 | _ | 11.3 |
| 1,500 " " 2,000 | 1,100 | ,, | | • | • | • | 4.14 | | (, , ,) | | } 4.1 | 6.4 |
| 1,500 " " 2,000 | 1,300 | | 1,500 | • | • | • | 4.4 | 6.2 | J 8.7 } | 5.3 | ₹ ` | 4.5 |
| 2,000 " " 3,000 | | ** | 2 000 | | | | 12 9 | 0.2 | 16.8 | | 84 | 10.2 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1.500 " | | | Ċ | • | • | _ | 77 | | 5.3 | | 12.8 |
| 4,000 " " 5.000 6.0 | | ** | | • | • | · | | | | | | 5.0 |
| 5,000 " " 6,000 5.6 | 2,000 " | | | | | | | 4.0 | | | 1 | ۲٦ |
| 6,000 and over | 2,000 " 3,000 " | ** | 4,000 | : | : | | 6.0 > | 4.2 | ₹ 6.31 | | 1 1 | [] |
| Total | 2,000 " 3,000 " 4,000 " | " | 4,000 5.000 | : | | • | | 4.2 | | 5.5 | $\left\{ \right\}_{5,2}$ | . {} |
| —dollars— Median income 1,250 550 910 540 620 | 2,000 " 3,000 " 4,000 " 5,000 " | " " | 4,000 5.000 | | : | : | | 4.2 | 6.1 | 5.5 | }5.2 | ער |
| Median income 1,250 550 910 540 620 | 2,000 " 3,000 " 4,000 " 5,000 " 6,000 and o | " " | 4,000 5.000 | | | · · | 5.6J * | • | (6.1 } | | į J | { } 6.2 |
| | 2,000 " 3,000 " 4,000 " 5,000 " 6,000 and o | " " | 4,000 5.000 | : | | : | 5.6J * | • | 181.7 | 52.9 | į J | ערר |
| 1,100 | 2,000 " 3,000 " 4,000 " 5,000 " 6,000 and c | over | 4,000 5.000 | : : : : | | • | 113.4 | 68.3 | 6.1 *) 181.7 —dollar: | 52.9 s— | 97.8 | 150.5 |
| | 2,000 " 3,000 " 4,000 " 5,000 " 6,000 and c Total | over | 4,000 5.000 | | : : : : | · · · | 5.6 J 113.4 1,250 | 68.3 | 6.1 *) 181.7 —dollar: 910 | 52.9 s— | 97.8 | ر 6.2 |

⁽a) Non-institutional population aged 15 years and over. (b) For definitions see page 288.

Less than 4,000. See comment on standard errors, page 289.

ALL INCOME RECIPIENTS (a): AGE AND PRINCIPAL SOURCE OF INCOME, 1973-74 (b)

('000)

| | | | Principal so | urce of incon | те | | | |
|----------------------|----------------------|--|-----------------------|--|---|--|-----------------|--------------------|
| Age group (years) | Wages or salary | Own business, trade or profession | Share in partner-ship | Govern- ment social service benefits | Super- annu- ation or annuity | Interest, rent, dividends, etc. | Other income | Total |
| | | | М | ALES | | | | |
| 15–19 | 343.3 | • | • | 21.2) | | ſ 14.0 | 7.4 | ∫390.5 |
| 20-24 | 484.2 | 13.5 | 15.4 | 20.5 } | 5.2 | ₹ 4.5 | 7.4 م | ₹ 543.1 |
| 25-34 | 842.0 | 64.4 | 71.4 | 10.1 Ĵ | | \\ .\' |) | 992.8 |
| 35-44 | 611.6 | 70.7 | 72.8 | 11.6J | | 77 1 | 1 | 768.1 |
| 45-54 | 615.1 | 61.5 | 58.8 | 22.1 } | • | ₹ 8.9 ` | 5.1 | 770.0 |
| 55-59 | . 221.3 | 27.0 | 22.0 | 18.4) | | 5.9 | ٠.١ | ጎ 296. 6 |
| 60-64 | 169.2 | 21.0 | 20.9 | 30.9 | 7.0 | 12.5 | ſ | 261.8 |
| 65 and over | . 66.3 | 15.7 | 15.7 | 280.9 | 29.4 | 33.8 |) | (444.0 |
| Total . | . 3,353.1 | 276.9 | 279.6 | 415.7 | 45.4 | 83.7 | 12.5 | 4,466.8 |
| | | | FE | MALES | | | | |
| 15-19 . | . 316.9 | ١ | . • | 42.97 | | (14.4) | | (380.2 |
| 20-24 . | . 384.1 | | ₹ 8.2 | 122.3 | | 6.9 | 5.6 | 1 528.7 |
| 25–34 | . 451.7 | 12.6 | 58.1 | 399.0 | 4.8 | 7 20.5 | 8.1 | 950.3 |
| 35–44 . | . 351.6 | 10.2 | 57.9 | 274.1 | | 18.4 | 7.6 | 721.2 |
| 45-54 . | . 326.9 | 17.2 | 41.1 | 190.1 | | 48.8 | 7.0 | 633.3 |
| 55-59 | . 86.8 | 7.6 | 16.0 | 85.2 | • | 137.27 | | ∫ 235.6 |
| 60-64 . | . 36.7 | 4.3 | 13.0 | 141.0 | 4:3 | 35.2 | 4.0 | 236.6 |
| 65 and over | . 13.8 | • | 9.7 | 493.6 | 10.3 | 44.5 | 4.6 | 579.9 |
| Total | . 1,968.4 | 59.1 | 204.5 | 1,748.2 | 22.7 | 225.9 | 36.9 | 4,265.6 |
| | | | PE | RSONS | | | | |
| 15–19 | ((0:0 | | | | | 20.4 | 2 . | 770 1 |
| 15-19 . 20-24 . | . 660.2 | 17 4 | | 64.2 | 4.6 | 28.4 | 7.1 | 770.7 |
| 20-24 . 25-34 . | . 868.3 | 17.4 | 23.6 | 142.8 | 4.2 | ∫11.4 22.4 | 5.9 | 1,071.1 |
| 25-34 . 35-44 . | . 1,293.7 . 963.2 | 77.0 81.0 | 129.5 130.7 | 409.1 ∫ 285.7 | | \\\23.4 | 8.6 7.7 | 1,943.1 |
| 45-54 . | . 963.2 . 942.0 | 78.7 | 99.9 | 212.2 | 4.5 | 19.5 57.7 | 8.4 | 1,489.1 1,403.1 |
| 55-59 . | . 942.0 | 34.6 | 38.0 | 103.6 | 4.3 | 43.17 | | (532. |
| 60-64 . | . 205.9 | 25.2 | 33.8 | 171.9 | 11.3 | 43.1 (| 5.1 | 498. |
| 65 and over | . 203.9 . 80.1 | 19.1 | 25.5 | 774.5 | 39.7 | 78.4 | 6.7 | 1,023.9 |
| | | | | | | | | • |
| Total . | . 5,321.5 | 336.1 | 484.0 | 2,163.9 | 68.1 | 309.6 | 49.4 | 8,732.5 |
| | | | | | | | | |

⁽a) Non-institutional population aged 15 years and over. (b) For definitions see page 288.

• Less than 4,000. See comment on standard errors, page 289.

LABOUR, WAGES AND PRICES

MEAN TOTAL INCOME OF ALL INCOME RECIPIENTS(a): AGE AND PRINCIPAL SOURCE OF INCOME, 1973-74(b) (\$)

| | | | | ··· | | | | |
|----------------------|--------------------|--|------------------------------|--|--------------------------------------|--|-----------------|---------|
| | | | Principal so | ource of inc | rome | | | |
| Age group (years) | Wages or salary | Own business, trade or profession | Share in partner- ship | Govern- ment social service benefits | Super- annuation or annuity | Interest, rent, dividends, etc. | Other income | Total |
| | | | М | ALES | | | | |
| 15–19 | 2,040 | * | | 6207 | | (290) | | (1,910 |
| 20-24 | 4,760 | 6,270 | 6,000 | 1,810 | 1,410 | 4,430} | 1,420 | 4,700 |
| 25–34 | 6,640 | 7,810 | 6,630 | 1,790 | 1,410 | 7,7307 | ٠, | 6,660 |
| 35-44 | 7,160 | 8,070 | 6,920 | 1,760 | | ` ≻ *≺ | } | 7,130 |
| 45–54 | 7,240 | 8,690 | 6,620 | 1,610 | | 7,090 | · } | 7,140 |
| 55-59 | 6,510 | 6,860 | 5,610 | 1,570 | | 6,380 | > 8,050 | 6,190 |
| 60–64 | 6,480 | 8,600 | 6,340 | 1,670 | 5,780 | 3,630 | } | 5,910 |
| 65 and over . | 5,540 | 7,270 | 5,430 | 1,410 | 4,420 | 4,320 | 1 | 2,810 |
| os and over . | 5,540 | 7,270 | 3,430 | 1,410 | 4,420 | 4,320 | J | (2,610 |
| Total . | 6,060 | 7,870 | 6,500 | 1,440 | 4,310 | 4,060 | 4,130 | 5,710 |
| | | | FE | MALES | | | | |
| 15–19 | 1,680 | ٠. | · · | 630 \ | | (330) | 900 | ∫1,490 |
| 20-24 | 3,280 | ٠ | ጊ 3,930 | 460 (| > 1,250 | ქ 280∫ | 900 | ዃ 2,580 |
| 25-34 | 3,540 | 3,020 | 4,390 | 250 (| 1,230 | ີງ 840ັ | 2,390 | 2,130 |
| 35–44 | 3,310 | 4,050 | 5,730 | ر 410 | | (1,730 | . 2,230 | 2,360 |
| 45-54 | 3,560 | 3,780 | 4,480 | 520 \ | | ∫1,650 | 1,420 | 2,540 |
| 55-59 | 3,640 | 5,210 | 5,100 | 1,000 | • | ጎ 800 ጊ | 3,390 | ∫ 2,370 |
| 60-64 | 3,740 | 5,780 | 3,490 | 1,170 | 2,940 | 1,560 } | 3,390 | ዃ 1,900 |
| 65 and over . | 4,060 | 4,160 | 4,580 | 1,300 | 2,930 | 2,860 | 5,420 | 1,620 |
| Total . | 3,160 | 3,950 | 4,770 | 740 | 2,470 | 1,540 | 2,430 | 2,160 |
| | | • | PEI | RSONS | | ···· | | |
| 15-19 | 1,870 | • | • | 630 | 320 | 310 | 570 | 1,700 |
| 20–24 | 4,100 | 5,490 | 5,280 | 650] | | ſ1,920 | 1,950 | 3,650 |
| 25-34 | 5,560 | 7,030 | 5,630 | 290 | | 1,570 | 2,310 | 4,440 |
| 35–44 | 5,750 | 7,560 | 6,390 | 470 | • | 1,830 | 2,310 | 4,820 |
| 45-54 | 5,960 | 7,610 | 5,740 | 630 | 3,510 | 2,490 | 3,050 | 5,070 |
| 55-59 | 5,700 | 6,490 | 5,390 | 1,100 | * | 1,560 \ | • | ∫4,500 |
| 60-64 | 5,990 | 8,120 | 5,240 | 1,260 | 4,690 | 2,100 | 5,440 | 14,010 |
| 65 and over . | 5,280 | 6,730 | 5,110 | 1,340 | 4,030 | 3,490 | 5,280 | 2,140 |
| Total . | 4,990 | 7,180 | 5,770 | 870 | 3,690 | 2,220 | 2,870 | 3,980 |

⁽a) Non-institutional population aged 15 years and over. (b) For definitions see page 288.

* Based on a figure of less than 4,000. See comment on standard errors, page 289.

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Weekly earnings of employees (distribution), August 1975

In August 1975 a survey, based on the quarterly population survey (see the chapter Employment and Unemployment), was conducted throughout Australia in order to obtain information about weekly earnings of all persons aged 15 years and over who were employed as wage or salary earners in their main job. The survey was based on a multi-stage area sample of private dwellings (about 30,000 houses, flats, etc.) and covered about two-thirds of one per cent of the population of Australia.

Two tables on weekly wage and salary earners are presented below. Additional details may be obtained from the publication Weekly Earnings of Employees (Distribution), August 1975 (6.51).

In many cases the answer to the question on earnings was based on the knowledge of one person, generally the housewife. Some understatement in the estimates may be expected because of imperfect recall of minor or irregular sources of earnings.

Definitions of the terms used in the tables are as follows:

Weekly earnings refers to gross weekly wages and salaries from all jobs (i.e. before taxation and other deductions have been made). For persons paid other than weekly, earnings were converted to a weekly equivalent.

Median weekly earnings is the amount which divides the distribution of individuals into two equal groups, one having earnings above the median and the other having earnings below it. Medians were calculated from grouped data with linear interpolation being used within the class interval in which the median fell.

Mean weekly earnings is the amount obtained by dividing the total earnings of a group by the number of units in that group.

Hours worked refers to actual hours worked during the survey week, not necessarily hours paid for. Thus, if a person had been on leave for the whole week, hours would have been recorded as nil.

Full-time workers are those who usually work 35 hours a week or more and others who, although usually part-time workers, worked 35 hours or more during the survey week.

Part-time workers are those who usually work less than 35 hours a week and who did so during the survey week. When recording hours of work, fractions of an hour were disregarded.

Standard errors. Since the estimates are based on a sample they are subject to sampling variability. The following table, while not giving a precise measure of the standard error of a particular estimate, does provide an indication of its magnitude.

APPROXIMATE STANDARD ERRORS OF ESTIMATES

| Size of | | Approxim standard estimates | | Size of | Approxim standard estimates | |
|----------------------|--|-----------------------------------|----------------------|----------------------------------|-----------------------------------|----------------------|
| estimate (Person. | | Persons | Per cent of estimate | Size of estimate (Persons) | Persons | Per cent of estimate |
| 4,000 | | 800 | 20.0 | 100,000 | 3,000 | 3.0 |
| 5,000 | | 900 | 18.0 | 200,000 | 4,000 | 2.0 |
| 10,000 | | 1,200 | 12.0 | 500,000 | 6,000 | 1.2 |
| 20,000 | | 1,600 | 8.0 | 1,000,000 | 8,000 | 0.8 |
| 50,000 | | 2,300 | 4.6 | 2.000.000 | 10,000 | 0.5 |

Estimates less than 4,000 have not been shown in the tables as they would be subject to such high standard errors as to detract seriously from their value for most reasonable uses.

ALL EMPLOYEES(a): WEEKLY EARNINGS(b) AND HOURS WORKED, AUGUST 1975

| | | | Н | lours work | ked (c) | | | | | |
|---|---|---|---|---|--|---|--|---|--|---|
| Weekly earnings (b) (\$) | 0(c) | 1–19 | 20-29 | 30–34 | 35-39 | 40 | 4144 | 45-48 49 | and over | Total |
| | | | | MAL | ES | | | _ | | |
| Under 20 20 and under 40 40 , , , 60 60 , ., 80 80 , , 100 100 , , 110 110 , , 120 120 , , 130 130 , , 140 140 , , 150 150 , , 160 160 , , 200 200 , , 260 260 and over | 6.2 4.1 10.2 13.5 20.5 19.6 16.2 17.2 15.3 34.8 24.6 15.5 | \$\begin{cases} 31.8 \\ 20.8 \\ 7.5 \\ 4.6 \\ 4.1 \\ 4.9 \\ 6.1 \\ 4.6 \\ 5.8 | 4.6 5.6 7.3 7.2 4.8 7.6 * 5.7 5.1 9.0 7.5 * | 4.0 4.5 9.6 12.7 12.3 13.4 11.3 7.8 7.6 13.0 7.9 | 5.0 9.9 17.6 16.6 20.0 31.3 28.6 33.3 34.2 79.3 62.2 29.1 | 40.6 50.8 97.6 150.5 178.9 206.2 171.8 125.0 117.7 180.3 91.4 36.9 | * + + + + + + + + + + + + + + + + + + + | 4.1 10.4 14.6 13.8 25.6 22.4 26.5 25.4 55.1 42.2 19.3 | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| Total | 197.7 | 96.9 | 74.2 | 110.3 | 369.2 | 1,451.4 | 164.0 | 262.7 | 402.5 | 3,129.4 |
| Median earnings Mean earnings | 144 159 | 35 69 | 124 130 | 127 136 | doli 155 167 | lars— 129 138 | 139 152 | 153 166 | 170 185 | 138 149 |
| | | | | FEMA | LES | | | | | |
| Under 20 20 and under 40 40 " " 60 60 " " 80 80 " " 100 110 " 120 120 " " 130 130 " " 140 140 " " 160 160 " " 200 200 " " 260 260 and over | 7.6 9.7 9.2 11.3 18.2 12.5 10.6 10.2 8.6 11.0 11.0 15.0 | 77.0 73.7 59.6 25.2 10.9 4.6 4.6 4.8 { | 6.9 31.7 55.1 30.4 {8.4 5.0 4.1 }7.5 }4.5 | 5.0 18.0 31.0 21.7 13.9 9.9 {5.9 {6.3 {4.2 | '00 * 12.7 26.0 41.9 43.0 41.8 52.7 33.4 34.2 23.0 8.4 * | 33.5 63.3 137.3 120.7 87.6 60.3 37.3 37.6 23.3 6.4 | * 4.6 9.4 8.1 8.7 6.1 * 4.0 5.1 | 4.6 5.0 4.0 4.2 4.4 6.7 5.0 | 5.8 6.4 5.4 4.1 4.2 7.2 5.9 | \$89.2 98.1 159.3 207.6 226.1 226.1 176.4 153.2 101.3 109.8 9.4 |
| Total | 125.6 | 260.7 | 155.3 | 122.1 | 321.5 | 613.1 | 53.6 | 37.9 | 39.0 | 1,728.7 |
| Median earnings Mean earnings | 105 105 | 34 40 | 73 79 | 102 105 | —dol 118 119 | lars— 105 107 | 110 114 | 122 124 | 134 142 | 101 98 |
| | | | | PERS | ONS | | | | | |
| Under 20 20 and under 40 40 , , , 60 60 , , , 80 80 , , 100 100 , , 110 110 , , 120 120 , , 130 130 , , 140 140 , , 156 150 , , 200 200 , , 260 260 and over | 9.7 10.9 12.2 15.4 28.3 26.0 31.1 29.8 24.8 23.8 19.8 46.5 28.4 16.6 | 108.8 94.5 67.1 29.8 13.2 8.7 4.8 7.5 5.3 3.6 2.3 5.8 6.2 | 9.3 37.3 62.4 37.6 13.2 8.9 11.7 7.3 7.5 7.1 12.6 8.4 * | 4.7 9.0 22.6 40.5 34.4 26.2 23.3 17.2 11.3 10.4 17.3 11.3 4.3 | | 5.4 74.1 114.1 234.8 271.2 266.5 209.1 145.8 134.6 203.6 97.8 39.5 | * } 6.8 } 8.7 17.3 19.2 24.4 25.0 24.0 18.5 13.4 33.7 17.8 7.8 | 5.9 { 6.2 15.4 18.5 18.0 30.0 26.0 30.0 28.7 58.6 43.7 19.7 | 4.5 7.8 10.9 14.6 21.2 20.1 24.7 26.0 23.1 36.9 94.1 87.2 61.6 | 132.0 132.7 235.6 306.1 461.1 461.8 502.8 401.7 320.8 302.8 186.2 |
| | | 331.3 | 227.4 | | | -dollars | 217.0 | Juu. 0 | 441.3 | →,030. (|
| Median earnings Mean earnings | 129 138 | 34 48 | 81 96 | 111 120 | 133 145 | 122 129 | 132 142 | 150 161 | 167 181 | 124 131 |
| | | | | | | | | | | |

⁽a) Civilian non-institutional population aged 15 years and over. (b) For definitions see page 295. (c) Includes persons paid while on leave, etc. * Less than 4,000. See comment on standard errors, page 295.

FULL-TIME EMPLOYEES(a): WEEKLY EARNINGS(b) AND AGE, AUGUST 1975

| | | | Age | group (yea | rrs) | | | | |
|---|---|---|---|---|---|--|---|---------------------------------|--|
| Weekly earnings(b) (\$) | 15–19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-59 | 60-64 | 65 and over | Total |
| | | | 1 | MALES | | | | | |
| Under 40 40 and under 60 60 80 80 100 100 120 120 130 130 140 140 150 150 160 160 170 170 180 180 190 190 200 200 240 240 260 260 300 300 340 340 and over | 5.5 54.1 71.4 64.2 28.4 16.2 9.9 5.2 4.8 4.9 | 5.2 7.5 38.9 51.7 54.4 63.2 49.3 38.8 8 38.8 12.9 11.4 5.8 4.8 | 5.2 { | 4.6 15.1 34.1 50.9 63.5 56.1 52.4 33.3 27.8 26.0 20.1 43.4 23.0 24.4 16.5 14.0 | -'000- } 4.6 17.1 43.4 54.9 69.0 58.3 49.0 31.2 22.6 22.1 17.2 37.0 18.4 19.4 13.8 16.6 | 7.0 17.7 18.4 26.3 24.4 21.0 12.5 7.0 7.3 6.9 8.1 5.3 6.3 6.3 | 6.7 13.2 19.3 21.2 17.6 15.5 5.6 5.3 5.3 6.3 | 6.1 4.4 7.6 4.7 4.2 | \$ 17.2 64.8 90.9 168.2 241.6 283.6 346.2 252.1 118.1 112.4 85.8 85.2 85.8 86.2 74.4 46.5 33.8 |
| Total | 268.4 | 426.4 | 805.1 | 580.8 | 567.2 | 205.3 | 134.0 | 29.1 | 3,016.6 |
| | | | | | -dollars- | | | | |
| Median earnings . Mean earnings . | 80 85 | 128 135 | 151 164 | 152 170 | 146 165 | 142 159 | 132 145 | 133 126 | 139 152 |
| | | | F | EMALE | s | | | - | |
| | | | | | 000- | | | (c) | |
| Under 60 | 54.7 81.2 61.7 15.3 7.1 5.0 5.1 | * 8.9 46.3 60.5 51.1 45.3 21.7 13.5 14.6 5.8 | 4.1 7.5 30.3 39.9 35.2 39.6 30.5 18.0 11.7 8.8 | 4.5 6.9 40.0 35.7 28.3 21.3 17.2 10.8 7.9 4.9 | 5.6 35.6 37.7 27.8 25.9 14.4 8.7 6.9 | 7.4 7.4 6.9 5.6 6.0 4.2 |) | 4.9 5.1 4.1 | 72.8 112.5 226.1 201.6 160.4 { 144.1 94.8 56.6 44.5 25.7 |
| 170 ,, ,, 180 180 ,, ,, 190 190 ,, ,, 200 200 and over . | } | 5.1 5.4 | 6.5 {5.5 * | }6.4 7.1 | 4.2{ 6.5 | 7.0 | | 5.1 | 18.3 15.5 13.2 34.9 |
| Total | 231.9 | 283.3 | 254.1 | 194.3 | 182.9 | 47.3 | | 27.3 | 1,221.0 |
| Median earnings . Mean earnings . | 75 78 | 114 | 122 128 | 113 121 | —dollars— 113 120 | 118 124 | | 110 120 | 109 113 |

⁽a) Civilian non-institutional population aged 15 years and over.

Determination of wage rates in Australia

Legal minimum wage rates in Australia are generally prescribed in awards or determinations of Federal and State industrial arbitration tribunals, in collective agreements registered with these tribunals, or in unregistered collective agreements. A list of the main industrial tribunals operating in Australia is shown in Labour Report No. 58, 1973.

In awards, etc. of State tribunals in all States except Victoria and South Australia the wage rates specified for particular occupations consist of a basic wage and secondary wage payments. A basic wage is prescribed separately for adult males and adult females and is a common component of prescribed rates of pay in an award. In addition to the basic wage are margins for skill, etc. for

⁽c) Aged (b) For definitions see page 295.

⁶⁰ years and over.

* Less than 4,000. See comment on standard errors, page 295.

particular occupations and these together with loadings of various kinds peculiar to the occupation or industry make up the secondary wage. The division of award rates into basic wage and secondary wage also applied to awards, etc. of the Commonwealth Conciliation and Arbitration Commission and of Victorian Wages Boards prior to 1 July 1967. However, as a result of the decision of the Commission in the National Wage Cases of 1967 and a subsequent decision of the Victorian Indusrial Appeals Court, basic wages and margins were eliminated from Federal awards and Victorian Wages Board determinations, and award, etc. rates of pay were expressed as total wages. From 4 September 1975 award rates in South Australian State awards were also expressed as total wages.

In July 1966 the Commonwealth Conciliation and Arbitration Commission inserted rates of minimum wage for adult males into Federal awards. This decision has been followed by State tribunals so that now in most State and Federal awards, etc., where applicable, rates of minimum wage for adult males are prescribed. The awards in general state that no adult male employee shall be paid less than the minimum wage for working the standard weekly hours of work. The concept of a minimum wage has also been extended to adult females covered by Federal and State awards. For further information on minimum wages for adult males and adult females see page 270–1.

The following paragraphs set out recent decisions by Federal and State industrial tribunals affecting award, etc. rates of pay. For further information including a history of wage determination in Australia reference should be made to the Labour Report. Section VIII of the Appendix of Labour Report No. 58, 1973 contains tables of basic wages, minimum wages, and general increases in award total wage. Current information on basic wages, minimum wages and increases in total wages may be obtained from the monthly bulletin Wage Rates and Eurnings (6.16). Also included in this chapter are brief summaries of the provision of paid annual leave and paid long service leave to employees. These provisions have been made by decisions of Federal and State industrial arbitration authorities or by legislation.

Total wages in Federal awards

Following the National Wage Cases of 1967, the Commonwealth Conciliation and Arbitration Commission announced the introduction of the total wage concept to cover Federal awards. Subsequently, as a result of National Wage Cases, the Commission made annual adjustments to total award wages in the years 1968 to 1974, but excluding 1970. In its judgment in the May 1974 National Wage Case, the Commission stated that it would call a conference to discuss wage fixation methods and wage indexation.

On 30 April 1975, following a National Wage Case, the Commission decided to introduce wage indexation in the form of quarterly adjustments to award total wages based on increases in the Consumer Price Index (C.P.I.). The increases would apply to all ordinary award rates and rates for leading hands and would operate from the beginning of the first pay-period commencing on or after the 15th day of the month following release of the quarterly C.P.I. The Commission also announced that each year it would consider what increase in total wage should be awarded on account of productivity.

As a result of indexation claims, total wages under Federal awards were increased by 3.6 per cent in May 1975, 3.5 per cent in September 1975 and 6.4 per cent in February 1976. The changes were operative from the beginning of the first pay-period commencing on or after 15 May 1975, 18 September 1975 and 15 February 1976 respectively.

Minimum wage for adult males and adult females

In July 1966 the Commonwealth Conciliation and Arbitration Commission, in its decisions in the Basic Wage, Margins and Total Wage Cases of 1966, inserted in Federal awards provisions for a minimum wage for adult males. For further information on this decision see Year Book No. 60, 1974.

The first Federal minimum wage for adult males operated from the beginning of the first payperiod commencing on or after 11 July 1966. The rates of minimum wage for adult males in State capital cities inserted in awards ranged from \$34.75 (Brisbane) to \$37.25 a week (Sydney).

As a result of decisions of the Commission in National Wage Cases, the minimum wages for adult males were increased each year from 1967 to 1974 (except 1970). Further increases were awarded in January 1975 (\$8 a week), May 1975 (\$4) and September 1975 (\$2.80).

In its decision in the 1974 National Wage Case, the Commonwealth Conciliation and Arbitration Commission extended the minimum wage to adult females in three stages. Initially the minimum wage for adult females was to be 85 per cent of the relevant adult male minimum wage, increasing to 90 per cent by 30 September 1974 and to 100 per cent by 30 June 1975.

Industrial tribunals in all States have adopted the concept of a minimum wage for adult males and adult females covered by State awards, determinations and agreements. The timing adopted by the various States in extending this principle to both adult males and females is given in the Year Book No. 60, 1974. In all States except Western Australia, the minimum wage for adult males and females came into equality from about the end of June 1975.

Equal pay

The Commonwealth Conciliation and Arbitration Commission, in its decision in the National Wage and Equal Pay Cases 1972, outlined the principle of 'equal pay for work of equal value' for adult and junior females to be applied to all Federal awards and determinations. For further details see Year Book No. 60, 1974.

Determination of wage rates in State awards, etc.

The following paragraphs set out recent decisions of State industrial arbitration tribunals affecting rates of pay prescribed in State awards, etc. For further information including a history of wage determination in Australia, reference should be made to Labour Reports and earlier issues of the Year Book. Tables of basic wages, minimum wages and general increases in total wages were published in the Appendix to Labour Report No. 58, 1973. Current figures appear in the monthly bulletin Wage Rates and Earnings (6.16).

New South Wales

Since January 1968 the Industrial Commission of New South Wales has granted increases in award rates of pay to employees under State awards, etc. similar in amount to those awarded to Federal award employees as a result of National Wage Cases. The increases to State awards were made through increases in basic wages and margins.

It was not till May 1974 that the concept of a minimum wage for adult males and a minimum wage for adult females was generally adopted for State awards.

Following the May 1975 National Wage Case decision the Industrial Commission of New South Wales decided to increase State award wages by 3.6 per cent. This increase was inclusive of an increase of \$1.70 a week in the basic wage which became \$49.50 a week for adult males and \$40.20 a week for adult females. The minimum wage for adult males and adult females was set at \$80.80 and \$72.70 a week respectively. All variations operated from the beginning of the first pay-period commencing on or after 15 May 1975. Similarly from the beginning of the first pay period commencing on or after 18 September 1975, when State award wages were increased by 3.5 per cent, the basic wage rose to \$51.20 a week for adult males and \$41.90 for adult females. From the same date the weekly minimum wage increased by \$2.80 to \$83.60 for both adult males and females.

As from the beginning of the pay-period in which 30 June 1975 occurred, the adult female minimum wage rate reached full parity with the adult male rate of \$80.80 a week.

Victoria

Since July 1967 wage rates in Victorian Wages Board determinations have been expressed as total wages as in Federal awards. (see page 298).

Following decisions of the Commonwealth Conciliation and Arbitration Commission in National Wage Cases, total wages prescribed for adult males and adult females in Wages Board determinations have been increased by similar amounts to those awarded to Federal award employees.

In December 1969 the Industrial Appeals Court ordered that a minimum wage for adult males should operate in all Wages Board determinations. Since then this wage has been increased by the same amount of increase as prescribed for the Federal minimum wage for adult males. (see page 298).

From the beginning of the first pay-periods commencing on or after 15 May and 18 September 1975, total wages in Victoria Wages Board determinations were increased by 3.6 and 3.5 per cent respectively. At the same time minimum wage rates rose in May to \$80.00 a week for adult males and \$72.00 for adult females and in September to \$82.80 for both adult males and adult females.

As from the beginning of the pay-period in which 30 June 1975 occurred, the minimum wage for adult females reached full parity with the adult male rate of \$80.00 a week.

Queensland

The Industrial Conciliation and Arbitration Commission of Queensland has in recent years considered applications to increase wage rates prescribed in State awards subsequent to the publication of retail price index numbers or to decisions in the National Wage Cases. (see page 298). Details of changes in State award wage rates to February 1973 will be found in earlier issues of the Year Book and the Labour Report.

In May 1970 the Industrial Commission declared that a guaranteed minimum wage for adult males would be prescribed in all awards and industrial agreements. Since then there have been a number of increases made to the minimum wage.

From 22 September 1975, the Industrial Commission increased the basic wage to \$56.30 a week for adult males and \$44.05 for adult females. Prior to this date increases had also been made on 2 September 1974 and 26 May 1975. The rates given above are operative in the Southern Division—Eastern District (including Brisbane) only. For other areas of the State, district allowances are added. For details see Labour Report No. 58, 1973.

Since 27 May 1974 when the minimum wage for adult males stood at \$68.50 a week, the Commission has granted five increases, i.e. 2 September 1974, 6 January 1975, 28 April 1975, 26 May 1975 and 22 September 1975 when the rate for both adult males and adult females became \$83.30 a week.

South Australia

Following increases in rates of pay in Federal awards as a result of National Wage Cases (see page 298), the South Australian Industrial Commission granted increases in rates prescribed in State awards.

A minimum wage for adult males was introduced into State awards in September 1966. Since then increases to this wage have been the same as those granted to the Federal minimum wage to adult males (see pages 298-9).

The first pay-period commencing on or after 15 May 1975 was the last occasion on which the State living wage was varied to become \$48.20 a week for adult males and \$38.60 a week for adult females. From 4 September 1975 the living wage and margins were deleted from State awards and rates were specified as total wages. These were subsequently increased by 3.5 per cent operative from the beginning of the first-pay period commencing on or after 22 September 1975.

The minimum wage operative from the same period in September 1975 was \$82.40 for both adult males and females.

From the beginning of the pay-period in which 30 June 1975 occurred, the minimum wage for both adult males and adult females became \$79.60 a week.

Western Australia

Since November 1968 legislation has provided that the Western Australian Industrial Commission should review and vary the basic wage once every twelve months unless there are special reasons.

In April 1967 the Industrial Commission first included in State awards provision for a minimum wage for adult males. Increases have since been granted to the minimum wage.

Beginning in October 1970 wage rates for adult males in State awards have been increased so that the rates for ordinary hours of work are 110 per cent of the sum of the specified basic wage and margin. This provision does not apply to adult males in receipt of this allowance through award provisions or otherwise.

The Industrial Commission increased the basic wage plus margin in State awards by 3.6 per cent from 15 May 1975 and 3.5 per cent from 15 August 1975.

From the beginning of the first pay-period commencing on or after 1 May 1975, the minimum wage was increased to \$82.50 a week for adult males and \$72.10 for adult females.

As from the beginning of the first pay-period commencing on or after 30 June 1975, the State minimum wage for adult females was increased to \$80.10 a week, the same rate as then operating under Federal awards.

Tasmania

Subsequent to decisions of the Commonwealth Conciliation and Arbitration Commission in National Wage Cases (see page 298), Tasmanian Wages Boards have increased wage rates prescribed in their determinations.

A minimum wage for adult males was introduced into Wages Board determinations in July 1967 and increases have been made to the minimum wage since then.

State Wages Board determinations were varied as follows from the beginning of the first payperiod commencing on or after 15 May 1975. The basic wage was increased by \$1.70 a week to \$47.70 for adult males and by \$1.30 to \$38.20 for adult females with the minimum wage rising to \$80.70 for adult males and \$72.60 for adult females.

The basic wage and minimum wage for both adult males and adult females were further increased to \$50.00 a week and \$83.50 a week respectively, operative from the beginning of the first pay-period commencing on or after 18 September 1975.

From the beginning of the pay-period in which 30 June 1975 occurred, the adult female minimum wage reached full parity with the adult male rate of \$80.70 a week.

Annual leave

The majority of employees in Australia at present receive at least four weeks paid annual leave.

State Government employees in New South Wales and South Australia were granted four weeks paid annual leave in 1964 and 1971 respectively and Australian Government employees gained the benefit in January 1973. Following the increase in the entitlement for Australian Government employees, State Government employees in Victoria, Queensland and Western Australia were granted four weeks leave from the same date, while Tasmanian State Government employees received the entitlement from October 1972.

In December 1973 Queensland day workers employed under State awards were granted four weeks paid annual leave. Subsequently, workers employed under State awards and determinations in other States received similar benefits.

On 2 May 1974, the Australian Conciliation and Arbitration Commission granted four weeks paid annual leave to persons employed under the Metal Industry Award. This was the first major Federal award to prescribe four weeks paid leave with the entitlement accruing from 1 January 1974. Upon application four weeks annual leave was subsequently extended to other Federal awards.

In addition to four weeks annual leave on full pay, many Australian workers receive an annual leave bonus. This bonus varies in amount, but a 17½ per cent addition to the leave pay is a common provision in awards, etc.

More detailed information on Federal and State annual leave provisions appears in the Labour Report.

Long service leave

Paid long service leave, i.e. leave granted to workers who remain with the one employer over an extended period of time, has been included in the provisions of Federal and State industrial legislation and industrial awards. Most employees in Australia are now entitled to at least thirteen weeks paid long service leave after fifteen years continuous employment with the one employer. For employees in certain industries and for some employees of the Australian and State governments, long service leave entitlements are more generous. In all cases the transfer of ownership of a business does not constitute a break in continuity of service with the same employer. Further information is contained in the Labour Report.

INDUSTRIAL DISPUTES

Detailed information, including explanatory notes, definitions, etc., on industrial disputes involving stoppages of work is given in the Labour Report. A table showing statistics of industrial disputes for each year from 1913 is contained in the Appendix to Labour Report No. 58, 1973. Current statistics are published in the quarterly bulletin Industrial Disputes (6.6). Preliminary monthly figures are published in the statement Industrial Disputes (6.27).

The statistics of industrial disputes are now compiled according to the Australian Standard Industrial Classification (ASIC), described in the Bureau publication Australian Standard Industrial Classification (Preliminary Edition), 1969, Vol. I. Statistics on this basis for the years 1969 to 1973 were published in Labour Report No. 58, 1973.

Particulars of all disputes in progress during the year are included in the annual figures, whether the dispute commenced in that year or was in progress at the beginning of the year. Consequently, details of 'the number of disputes' and 'workers involved' in disputes which commenced in any year, and were still in progress during the following year, are included in the figures for both years.

The following table gives, for Australia as a whole, particulars of industrial disputes which were in progress during 1975, classified according to industries.

LABOUR, WAGES AND PRICES

INDUSTRIAL DISPUTES(a): INDUSTRIES, AUSTRALIA, 1975

| ASIC | | Number | Worker | s involved ('0 | 00) | Working days | Estimated loss in |
|----------|---|----------------|--------------|----------------|-----------------------|-----------------|----------------------|
| division | ASIC industry (b) | of disputes | Directly | Indirectly (c) | Total | lost ('000) | wages (\$'000) |
| (b) | ASIC industry (b) | | | | | | |
| A | Agriculture, forestry, fishing and hunting | 3 | 6.0 | | 6.0 | 3.8 | 129.6 |
| В | Mining- | | | | | 242.2 | |
| | Coal mining \cdot Other mining (d) | 175 188 | 48.4 26.7 | 1.1 6.3 | 49.5 33.0 | 343.3 90.0 | 11,456.5 2,807.6 |
| | | | 75.1 | | 82.5 | | |
| | Total mining | 365 | 73.1 | 7.4 | 02.3 | 433.3 | 14,264.1 |
| C | Manufacturing— Food, beverages and tobacco Textiles; clothing and footwear— | 170 | 72.7 | 21.8 | 94.5 | 253.2 | 6,215.7 |
| | Textiles | 13 | 17.3 | 0.1 | 17.3 | 20.7 | 327.1 |
| | Clothing and footwear . | 4 | 0.8 | • | 0.8 | 1.9 | 42.2 |
| | Total textiles; clothing and | 17 | 18.1 | 0.1 | 18.1 | 22.6 | 260.2 |
| | footwear | 17 | 10.1 | 0.1 | 10.1 | 22.0 | 369.3 |
| | Wood, wood products and furniture | 23 | 6.8 | 0.2 | 7.0 | 13.0 | 324.6 |
| | Paper and paper products, | 23 | 0.0 | 0.2 | 7.0 | 13.0 | 324.0 |
| | printing and publishing. Chemical, petroleum and coal | 56 | 42.7 | 1.0 | 43.7 | 63.8 | 2,096.7 |
| | products | 49 | 10.9 | 0.8 | 11.7 | 34.5 | 797.8 |
| | and equipment— Basic metal products | 195 | 45.6 | 1.6 | 47.2 | 98.6 | 2,703.4 |
| | Fabricated metal products. | 162 | 64.7 | 0.9 | 65.6 | 105.7 | 2,423.7 |
| | Transport equipment Other machinery and | 226 | 112.9 | 3.2 | 116.2 | 178.9 | 4,589.2 |
| | equipment | 93 | 15.2 | 2.5 | 17.6 | 128.6 | 3,404.3 |
| | Total metal products, | | | | | | |
| | machinery and equipment (| e) 681 | 544.4 | 9.1 | <i>553</i> . 5 | 1,279.2 | 33,073.1 |
| | Other manufacturing— Non-metallic mineral | | | | | | |
| | products (f) | 56 | 9.0 | . 1.7 | 10.6 | 47.0 | 1,246.6 |
| | Miscellaneous manufac- turing (g) | 17 | 4.9 | • | 4.9 | 30.0 | 777.1 |
| | Total other manufacturing . | 73 | 13.7 | 1.8 | <i>15.5</i> | 77.0 | 2,023.3 |
| | Total manufacturing | 1,069 | 709.1 | 34.8 | 744.0 | 1,743.3 | 45,063.3 |
|) I | Electricity, gas and water— | | | | | | |
| | Electricity and gas Water, sewerage and drainage | 24 10 | 20.0 14.8 | * | 20.0 14.8 | 26.8 226.5 | 747.1 |
| | • | | | | | | 6,416.0 |
| | Total electricity, gas and water | 34 | 34.8 | • | 34.8 | 253.4 | 7,163.1 |
| C | Construction | 309 | 156.4 | 2.0 | 158.4 | 497.0 | 14,860.6 |
| V | Vholesale and retail trade | • | 20.0 | o 4 | 21.2 | 100 0 | |
| | Wholesale trade | 21 25 | 30.8 7.5 | 0.4 0.2 | 31.2 7.7 | 109.0 94.3 | 2,810.2 2,256.7 |
| | | | | | | | |
| | Total wholesale and retail trade | 46 | 38.2 | 0.6 | <i>38.9</i> | 203.3 | 5,066.9 |

For footnotes see page 303.

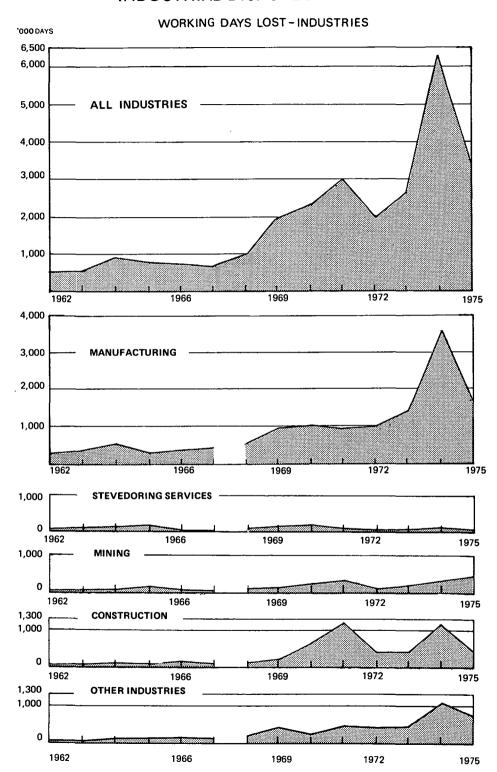
INDUSTRIAL DISPUTES

INDUSTRIAL DISPUTES(a): INDUSTRIES, AUSTRALIA, 1975—continued

| ASIC days | | | N7 | Workers | involved ('000 |)) | Working days | Estimated |
|--|-----|------------------------------|------------|--------------|----------------|---------|-----------------|------------------|
| (b) ASIC industry (b) disputes Directly (c) Total ('000) G,H Transport and storage; communication— Road transport; other transport and storage; communication— Road transport of the transport and storage; communication 19 4.2 0.1 4.2 7.4 Total road transport; other transport and storage; communication 53 35.4 0.4 35.9 45.3 Railway transport; other transport— Railway transport; other transport— Railway transport 1. 44 68.4 7.8 76.3 78.0 Air transport— Railway transport 2. 12 3.3 3.3 5.6 Total railway transport; other air transport. 56 71.7 7.8 79.5 83.6 Water transport— Stevedoring services 279 46.3 0.7 46.9 46.2 Water transport (except stevedoring services) 74 9.9 0.2 10.1 17.9 Total water transport 353 56.2 0.9 57.0 64.0 Total water transport and storage; communication 462 163.3 9.1 172.4 192.9 L Entertainment, recreation, restaurants, hotels and personal services 21 21.2 21.3 13.7 I Other industries— Finance, insurance, real estate and business services 25 36.3 36.3 14.0 J,K Public administration and defence; community services 16 38.7 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 38.7 62.4 Education, libraries, museums and art galleries 32 25.9 0.1 26.0 48.0 Total public administration and addefence; community services 100 103.3 0.1 103.4 155.4 | | | | | Indirectly | | | loss in wages |
| Communication— Road transport; other transport and storage; communication— Road transport 34 31.4 0.2 31.6 37.8 Road transport 34 31.4 0.2 7.4 Total road transport; other transport and storage; communication 53 35.4 0.4 35.9 45.3 45.3 Railway transport; air transport— Railway transport 44 68.4 7.8 76.3 78.0 Air transport 12 3.3 3.3 5.6 Total railway transport; air transport 56 71.7 7.8 79.5 83.6 Water transport— Stevedoring services 279 46.3 0.7 46.9 46.2 Water transport 6xcept stevedoring services 74 9.9 0.2 10.1 17.9 Total water transport 353 56.2 0.9 57.0 64.0 Total water transport 353 56.2 0.9 57.0 64.0 Total transport and storage; communication 462 163.3 9.1 172.4 192.9 L Entertainment, recreation, restaurants, hotels and personal services 21 21.2 21.3 13.7 L Other industries— Finance, insurance, real estate and business services 25 36.3 36.3 14.0 J.K Public administration and defence; community services— Health 16 38.7 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 38.7 45.0 Other (h) | | | | Directly | | Total | (000) | (\$'000) |
| Road transport and storage; communication— Road transport 34 31.4 0.2 31.6 37.8 | G,H | | | | | | | |
| transport and storage; communication— Road transport . 34 31.4 0.2 31.6 37.8 Other transport and storage; communication . 19 4.2 0.1 4.2 7.4 **Total road transport; other transport and storage; communication . 53 35.4 0.4 35.9 45.3 **Railway transport; air transport— Railway transport . 12 3.3 . 3.3 5.6 **Total railway transport; air transport . 12 3.3 . 3.3 5.6 **Total railway transport; air transport . 56 71.7 7.8 79.5 83.6 **Water transport . 56 71.7 7.8 79.5 83.6 **Water transport . 279 46.3 0.7 46.9 46.2 Water transport (except stevedoring services . 279 46.3 0.7 46.9 46.2 Water transport (except stevedoring services) 74 9.9 0.2 10.1 17.9 **Total water transport . 353 56.2 0.9 57.0 64.0 **Total transport and storage; communication . 462 163.3 9.1 172.4 192.9 **L. Entertainment, recreation, restaurants, hotels and personal services . 21 21.2 . 21.3 13.7 **I. Other industries— Finance, insurance, real estate and business services . 25 36.3 . 36.3 14.0 **J.K. Public administration and defence; community services— Health . 16 38.7 . 38.7 62.4 **Education, libraries, museums and art galleries of the filt of the services . 25 25.9 0.1 26.0 48.0 **Total public administration and defence; community services . 100 103.3 0.1 103.4 155.4 | | | | | | | | |
| Communication— Road transport | | | | | | | | |
| Road transport | | | | | | | | |
| Other transport and storage; communication . 19 4.2 0.1 4.2 7.4 Total road transport; other transport and storage; communication . 53 35.4 0.4 35.9 45.3 Railway transport; air transport— Railway transport . 44 68.4 7.8 76.3 78.0 Air transport . 12 3.3 . 3.3 5.6 Total railway transport; air air transport . 56 71.7 7.8 79.5 83.6 Water transport— Stevedoring services . 279 46.3 0.7 46.9 46.2 Water transport (except stevedoring services) 74 9.9 0.2 10.1 17.9 Total water transport . 353 56.2 0.9 57.0 64.0 Total transport and storage; communication . 462 163.3 9.1 172.4 192.9 L Entertainment, recreation, restaurants, hotels and personal services . 21 21.2 . 21.3 13.7 I Other industries— Finance, insurance, real estate and business services . 25 36.3 . 36.3 14.0 J,K Public administration and defence; community services— Health . 16 38.7 . 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 . 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 . 38.7 45.0 Other (h) . 52 25.9 0.1 26.0 48.0 | | | | | | | | |
| Storage; communication 19 4.2 0.1 4.2 7.4 | | | 34 | 31.4 | 0.2 | 31.6 | 37.8 | 932.4 |
| Total road transport; other transport and storage; communication . 53 35.4 0.4 35.9 45.3 Railway transport— Railway transport . 44 68.4 7.8 76.3 78.0 Air transport . 12 3.3 . 3.3 5.6 Total railway transport; air transport . 56 71.7 7.8 79.5 83.6 Water transport— Stevedoring services . 279 46.3 0.7 46.9 46.2 Water transport (except stevedoring services) 74 9.9 0.2 10.1 17.9 Total water transport . 353 56.2 0.9 57.0 64.0 Total transport and storage; communication . 462 163.3 9.1 172.4 192.9 L Entertainment, recreation, restaurants, hotels and personal services . 21 21.2 . 21.3 13.7 I Other industries— Finance, insurance, real estate and business services . 25 36.3 . 36.3 14.0 J,K Public administration and defence; community services— Health . 16 38.7 . 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 . 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 . 38.7 45.0 Other (h) . 52 25.9 0.1 26.0 48.0 | | | | | | | | |
| Railway transport; air transport | | storage; communication . | 19 | 4.2 | 0.1 | 4.2 | 7.4 | 211.5 |
| Railway transport; air transport— Railway transport | | | | | | | | |
| Railway transport; air transport— Railway transport | | | | 26.4 | | 25.0 | 45.3 | |
| transport— Railway transport | | communication | 33 | 35.4 | 0.4 | 33.9 | 43.3 | 1,143.9 |
| Railway transport | | | | | | | | |
| Air transport | | | | | | | = 0.0 | |
| ### Total railway transport: ### air transport | | | | | • | | | 1,897.3 |
| ### Water transport | | Air transport | 12 | 3.3 | • • | 3.3 | 5.6 | 153.1 |
| ### Water transport | | Total railway transport; | * | | | | | |
| Stevedoring services 279 46.3 0.7 46.9 46.2 | | | 56 | 71.7 | 7.8 | 79.5 | 83.6 | 2,050.4 |
| Water transport (except stevedoring services) 74 9.9 0.2 10.1 17.9 Total water transport 353 56.2 0.9 57.0 64.0 Total transport and storage; communication 462 163.3 9.1 172.4 192.9 L | | Water transport— | | | | | | |
| Water transport (except stevedoring services) . 74 9.9 0.2 10.1 17.9 Total water transport . 353 56.2 0.9 57.0 64.0 Total transport and storage; communication . 462 163.3 9.1 172.4 192.9 L | | Stevedoring services | 279 | 46.3 | 0.7 | 46.9 | 46.2 | 1,180.9 |
| Stevedoring services . 74 9.9 0.2 10.1 17.9 Total water transport . 353 56.2 0.9 57.0 64.0 Total transport and storage; communication . 462 163.3 9.1 172.4 192.9 L | | | | | | | | |
| Total transport and storage; communication | | | 74 | 9.9 | 0.2 | 10.1 | 17.9 | 542.5 |
| Communication | | Total water transport . | <i>353</i> | 56.2 | 0.9 | 57.0 | 64.0 | 1,723.4 |
| Communication | | Total transport and storage: | | | | | | |
| restaurants, hotels and personal services | | | 462 | <i>163.3</i> | 9.1 | 172.4 | 192.9 | 4,917.7 |
| Description Property Proper | L | Entertainment, recreation, | | | | | | |
| Description Property Proper | | restaurants, hotels and | | | | | | |
| Finance, insurance, real estate and business services . 25 36.3 36.3 14.0 J,K Public administration and defence; community services— Health 16 38.7 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 38.7 45.0 Other (h) 52 25.9 0.1 26.0 48.0 Total public administration and defence; community services 100 103.3 0.1 103.4 155.4 | | | 21 | 21.2 | •• | 21.3 | 13.7 | 324.9 |
| and business services . 25 36.3 36.3 14.0 J,K Public administration and defence; community services— Health 16 38.7 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 38.7 45.0 Other (h) 52 25.9 0.1 26.0 48.0 Total public administration and defence; community services 100 103.3 0.1 103.4 155.4 | I | | | | | | | |
| J,K Public administration and defence; community services— Health 16 38.7 38.7 62.4 Education, libraries, museums and art galleries 32 38.7 38.7 45.0 Other (h) 52 25.9 0.1 26.0 48.0 Total public administration and defence; community services 100 103.3 0.1 103.4 155.4 | | | | 26.3 | | 26.2 | 14.0 | 276 7 |
| defence; community services— Health | | | 25 | 36.3 | •• | 30.3 | 14.0 | 276.7 |
| Services | J,K | | | | | | | |
| Health | | | | | | | | |
| museums and art galleries 32 38.7 38.7 45.0 Other (h) | | Health | 16 | 38.7 | | 38.7 | 62.4 | 1,290.4 |
| Other (h) | | | | | | | 45.0 | |
| Total public administration and defence; community services 100 103.3 0.1 103.4 155.4 | | | | | : | | | 1,250.9 |
| and defence; community services 100 103.3 0.1 103.4 155.4 | | Other (h) | 52 | 25.9 | 0.1 | 26.0 | 48.0 | 1,152.6 |
| services 100 103.3 0.1 103.4 155.4 | | | | | | | | |
| | | | | | | | | |
| Total other industries 125 139.5 0.1 139.7 169.4 | | services | 100 | 103.3 | 0.1 | 103.4 | 155.4 | 3,693.9 |
| | | Total other industries | 125 | 139.5 | 0.1 | 139.7 | 169.4 | 3,970 .7 |
| Total 2,432 1,343.8 54.1 1,398.0 3,509.9 | | Total | 2,432 | 1,343.8 | 54.1 | 1,398.0 | 3,509.9 | 95,760.7 |

⁽a) Refers only to disputes involving a stoppage of work of ten man-days or more. (b) Australian Standard Industrial Classification, see page 301. Statistics in this industry detail are available from the year 1973. (c) Persons thrown out of work at the establishments where the stoppages occurred but who are not themselves parties to the dispute. (d) Includes ASIC sub-divisions 11, 13, 14, 15, 16. (e) Sub-total includes details of large disputes that cannot be allocated to the appropriate sub-divisions. Details for the sub-divisions therefore do not add to this sub-total. (f) Glass, clay and other non-metallic mineral products (ASIC sub-division 28). (g) Leather, rubber and plastic products and manufacturing n.e.c. (ASIC sub-division 34). (h) Includes public administration and defence (ASIC division I); welfare and charitable services and religious institutions (ASIC sub-division 83), and other community services (ASIC sub-division 84). * Less than 50.

INDUSTRIAL DISPUTES: AUSTRALIA



NOTE. A break exists in the series between 1967 and 1968, due to adoption of the Australian Standard Industrial Classification (ASIC).

The following table gives particulars of the number of industrial disputes in each State and Territory, together with the number of workers involved and the losses in working days and wages caused by disputes which were current during each of the years 1971 to 1975.

INDUSTRIAL DISPUTES(a): STATES AND TERRITORIES, 1971 TO 1975

| | | | Workers is | nvolved ('000) |) | | Estimated |
|--------------------------------|------|--------|---------------|-------------------|---------|------------------------|------------------------------|
| State or Territory | Year | Number | Directly | Indirectly (b) | Total | days lost ('000) | loss in wages (\$'000) |
| New South Wales | 1971 | 1,236 | 613.1 | 30.6 | 643.7 | 1,887.5 | 28,218.2 |
| | 1972 | 1,174 | 509.2 | 6.9 | 516.1 | 866.8 | 13,957.2 |
| | 1973 | 1,299 | 370.8 | 16.7 | 387.5 | 1,098.1 | 18,775.2 |
| | 1974 | 1,427 | 865.3 | 28.3 | 893.6 | 2,665.0 | 54,590.3 |
| | 1975 | 1,053 | 483.4 | 13.0 | 496.4 | 1,477.8 | 41,150.3 |
| Victoria | 1971 | 362 | 366.5 | 13.5 | 380.1 | 689.6 | 9,726.5 |
| | 1972 | 377 | 292.0 | 46.2 | 338.2 | 638.4 | 9,656.0 |
| | 1973 | 431 | 172.5 | 17.3 | 189.8 | 780.5 | 13,223.4 |
| | 1974 | 476 | 597.2 | 13.8 | 611.0 | 2,386.6 | 46,905.3 |
| | 1975 | 424 | 549.7 | 21.2 | 570.9 | 1,221.7 | 31,896.8 |
| Queensland | 1971 | 441 | 167.9 | 4.3 | 172.2 | 271.4 | 4,009.1 |
| | 1972 | 442 | 146.3 | 10.2 | 156.5 | 292.2 | 4,973.4 |
| | 1973 | 378 | 92.3 | 4.6 | 97.0 | 320.2 | 5,476.2 |
| | 1974 | 312 | 137.2 | 4.0 | 141.2 | 529.5 | 12,023.6 |
| | 1975 | 412 | 165.2 | 7.5 | 172.7 | 473.3 | 13,498.5 |
| South Australia | 1971 | 135 | 59.3 | 4.8 | 64.1 | 111.2 | 1,484.9 |
| | 1972 | 111 | 48.2 | 1.7 | 49.8 | 60.9 | 858.0 |
| | 1973 | 159 | 55.4 | 1.5 | 56.9 | 130.6 | 2,144.0 |
| | 1974 | 180 | 109.7 | 6.6 | 116.3 | 316.5 | 6,105.1 |
| | 1975 | 194 | 65.7 | 3.9 | 69.6 | 127.6 | 3,168.2 |
| Western Australia | 1971 | 132 | 30.8 | 5.0 | 35.8 | 69.4 | 1,166.4 |
| | 1972 | 105 | 24.2 | 4.1 | 28.3 | 94.6 | 1,677.2 |
| | 1973 | 160 | 35.4 | 2.2 | 37.6 | 117.3 | 2,422.3 |
| | 1974 | 257 | 186.1 | 2.1 | 188.1 | 256.9 | 5,827.7 |
| | 1975 | 236 | 47.5 | 6.3 | 53.8 | 100.7 | 3,075.2 |
| Tasmania | 1971 | 46 | 14.1 | 0.5 | 14.7 | 20.6 | 317.3 |
| | 1972 | 48 | 11.7 | 3.5 | 15.2 | 19.2 | 305.1 |
| | 1973 | 63 | 15.3 | 2.2 | 17.5 | 140.1 | 2,322.4 |
| | 1974 | 79 | 31.1 | 2.6 | 33.6 | 88.5 | 1,800.9 |
| | 1975 | 57 | 18.2 | 1.8 | 20.1 | 40.6 | 1,007.5 |
| Northern Territory | 1971 | 41 | 9.5 | 0.1 | 9.6 | 15.7 | 271.4 |
| | 1972 | 32 | 3.4 | • | 3.5 | 15.1 | 267.1 |
| | 1973 | 31 | 5.5 | | 5.5 | 18.9 | 361.2 |
| | 1974 | 52 | 5.5 | 0.4 | 5.9 | 18.9 | 485.2 |
| | 1975 | 37 | 9.5 | 0.4 | 9.9 | 33.4 | 878.4 |
| Australian Capital Territory . | 1971 | 11 | 6.3 | | 6.3 | 3.3 | 47.4 |
| - | 1972 | 9 | 6.2 | * | 6.2 | 23.1 | 380.4 |
| | 1973 | 17 | 10.7 | 0.4 | 11.1 | 29.0 | 481.8 |
| | 1974 | 26 | 15.0 | 0.1 | 15.1 | 30.4 | 563.7 |
| | 1975 | 19 | 4.5 | • • | 4.5 | 34.9 | 1,085.9 |
| Australia | 1971 | 2,404 | 1,267.7 | 58.8 | 1,326.5 | 3,068.6 | 45,241.3 |
| | 1972 | 2,298 | 1,041.2 | 72.6 | 1,113.8 | 2,010.3 | 32,074.4 |
| | 1973 | 2,538 | 758 .0 | 45.0 | 803.0 | 2,634.7 | 45,206.5 |
| | 1974 | 2,809 | 1,947.1 | 57.8 | 2,004.8 | 6,292.5 | 128,301.8 |
| | 1975 | 2,432 | 1,343.8 | 54.1 | 1,398.0 | 3,509.9 | 95,760.7 |

⁽a) Refers only to disputes involving a stoppage of work of ten man-days or more. (b) Persons thrown out of work at the establishments where the stoppages occurred but who are not themselves parties to the dispute.

* Less than 50.

Duration of disputes

The duration of each industrial dispute involving a loss of work, i.e. the time between the cessation and resumption of work, has been calculated in working days, exclusive of Saturdays, Sundays and holidays, except where the establishment involved carries on a continuous process (e.g. metal smelting and cement manufacture).

The following table shows, for the year 1975, industrial disputes classified according to duration in working days.

INDUSTRIAL DISPUTES(a): DURATION, AUSTRALIA, 1975

| | | | Manufactu | ring | , | Fransport | | | |
|--|----------|---------|------------------------------|----------|----------------|-------------------------|------------|--|----------------|
| | | | Metal products, | | 6 | ind storage communic | | | |
| | M | ining | machin- ery and equip- | | Con- siruc- | Steve- doring | | Other indus- | All indus- |
| Duration (working days) | Coal | Other | ment (b) | | | services | Other | tries | tries |
| • | | NU | MBER C | F DISP | UTES | | | | |
| Up to 1 day | 93 | 73 | 311 | 120 | 120 | 192 | 78 | 105 | 1,092 |
| Over 1 to 2 days Over 2 to 3 days | 43 | 48 | 87 | 54 | 31 | 65 | 39 | 31 | 398 |
| Over 2 to 3 days. | 20 | 24 | 42 | 50 | 27 | 13 | 19 | 27 | 222 |
| Over 3 to less than 5 days | 8 | 17 | 70 | 46 | 33 | 4 | 20 | 16 | 214 |
| 5 to less than 10 days . | 8 | | 97 | 76 | 53 | 5 | 19 | 35 | 312 |
| 10 to less than 20 days. | 2 | 6 | 49 | 39 | 31 | | 5 | 12 | 144 |
| 20 to less than 40 days. | 1 | | | 3 | 10 | | 2 | 2 | 42 |
| 40 days and over | | | 2 | | 4 | | 1 | 1 | 8 |
| Total | 175 | 188 | 681 | 388 | 309 | 279 | 183 | 229 | 2,432 |
| WORK | ERS IN | VOLVE | D (DIRE | CTLY A | ND IND | IRECTL | Y) ('000) | <u>. </u> | _ _ |
| TT- 4 1 1 | 40.6 | | | | | | | 151 (| |
| Up to 1 day | 18.6 | 12.5 | 161.4 | 110.6 | 82.2 | 33.4 | 69.4 | 171.6 | 659.8 |
| Over I to 2 days. | 8.8 | 4.9 | 84.4 | 13.1 | 44.0 | 12.1 | 48.8 | 30.6 | |
| Over 2 to 3 days. | 4.0 | 5.7 | 263.0 | 32.4 | 1.3 | 0.6 | 1.5 | 3.1 | 311.7 |
| Over 3 to less than 3 days | 2.4 | 5.9 | 15.7 18.6 6.8 3.3 | 8.1 | 4.5 | 0.5 | 3.5 | | 49.6 |
| 5 to less than 10 days . | 1.5 | 3.1 | 18.6 | 12.0 | 13.4 | 0.4 | 1.2 | 5.1 | 55.3 |
| To to less than 20 days. | 10.2 | 0.7 | 6.8 | 14.0 | 11.5 | • • | 1.0 | | . 54.4 |
| Over 1 to 2 days. Over 2 to 3 days. Over 3 to less than 5 days 5 to less than 10 days. 10 to less than 20 days. 20 to less than 40 days. 40 days and over. | 3.9 | 0.2 | 3.3 0.2 | 0.2 | 0.8 0.6 | | 0.1 0.1 | 10.5 0.8 | 18.9 1.7 |
| Total | 49.5 | 33.0 | | 190.5 | 158.4 | 46.9 | 125.5 | 240.7 | 1,398.0 |
| | | wor | KING D | AYS LOS | ST ('000) |) | | | |
| Up to 1 day | 17.3 | 7.5 | 84.9 | 70.1 | 57.7 | 22.7 | 41.0 | 100.8 | 401.9 |
| | | 7.5 | 127 6 | 21.3 | 65.9 | 16.5 | 65.1 | 54.1 | 382.0 |
| Over 1 to 2 days. Over 2 to 3 days. Over 3 to less than 5 days 5 to less than 10 days. 10 to less than 20 days. | 9.6 | 14.9 | 676.7 | 87.7 | 3.4 | | 3.7 | 7.9 | 805.3 |
| Over 3 to less than 5 days | 8.8 | 22.7 | 61.4 | 30.8 | 17.7 | 2.8 | 11.1 | 35.7 | 191.1 |
| 5 to less than 10 days . | 8.7 | 21.3 | 127.7 | 79.9 | 96.3 | 2.8 | 7.8 | 34.4 | 378.9 |
| 10 to less than 20 days. | 190.8 | 11.4 | 98.6 | 171.4 | 199.7 | | 12.3 | 135.7 | 820.0 |
| 20 to less than 40 days. | 94.1 | 4.7 | 82.1 | 3.0 | 23.9 | | 3.0 | | 426.5 |
| 40 days and over | • • | | | ••• | 32.4 | | 2.6 | 59.2 | 104.4 |
| Total | 343.3 | 90.0 | 1,279.2 | 464.1 | 497.0 | 46.2 | 146.7 | 643.5 | 3,509.9 |
| | ES | STIMAT | ED LOS | S IN WA | GES (\$ | '000) | | | |
| Up to 1 day | 543.3 | 224.2 | 2,203.3 | 1,817.0 | 1,720.9 | 585.1 | 1,059.6 | 2,516.7 | 10,670.3 |
| Over 1 to 2 days. Over 2 to 3 days. | 461.7 | 215.1 | 3,551.9 | | 1,787.2 | 437.6 | 1,510.4 | 1,155.2 | 9,662.1 |
| Over 2 to 3 days. | 295.8 | 479.8 | 17,509.8 | | 95.8 | | 96.6 | 180.9 | 20,811.0 |
| Over 3 to less than 5 days | 314.7 | 714.7 | 1.564.9 | 801.2 | 522.8 | 78.6 | 293.4 | 884.9 | 5,175.3 |
| 5 to less than 10 days . | | 696.8 | 3,169.2 | 1,976.7 | 2,666.6 | 38 6 | 244 0 | 865.5 | 9,917.1 |
| 10 to less than 20 days. | 6,370.5 | 346.9 | 2,706.3 | 4.664.6 | 5,961.9 | | 353.1 | 3,484.3 | 23,887.6 |
| 20 to less than 40 days. | 3,210.1 | 130.1 | 2,125.2 | 76.1 | | | 89.1 | 6,168.1 | 12,619.0 |
| 40 days and over | •• | | | | 1,285.0 | •• | 90.6 | 6,168.1 1,399.7 | 3,017.8 |
| Total | 11,456.5 | 2,807.6 | 33,073.1 | 11,990.2 | 14.860.6 | 1.180.9 | 3,736.8 | 16,655.1 | 95,760.7 |

⁽a) Refers only to disputes involving a stoppage of work of ten man-days or more. Industries are classified according to Australian Standard Industrial Classification P.—see page 301. (b) Includes ASIC sub-division 5 29, 31, 32, 33.

Causes of disputes

In the following table industrial disputes are classified according to cause, that is, the direct causes of stoppages of work. Causes are grouped as follows.

Wages—claims involving general principles relating to wages, including combined claims relating to wages, hours or conditions of work. Hours of work—claims involving general principles relating to hours of work. Leave, pensions, compensation provisions, etc.—claims involving general principles relating to these provisions. Managerial policy—disputes concerning managerial policy of employers including computation of wages, hours, leave, etc. in individual cases; docking pay, etc.; dismissals, etc.; principles of promotion, etc.; employment of particular persons and personal disagreements; production limitations, etc. Physical working conditions—disputes concerning physical working conditions including safety issues; protective clothing and equipment, etc.; amenities; shortage of, or condition of, equipment or material; new production methods, etc.; arduous physical tasks, etc. Trade unionism—disputes concerning employment of non-unionists; inter-union and intra-union disputes; sympathy stoppages; recognition of union activities, etc. Other—disputes concerning protests directed against persons or situations other than those dealing with employer-employee relationship; non-award public holidays; accidents and funerals; no reason given for stoppage; etc.
For details of classifications causes see bulletin Industrial Disputes (6.6.).

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INDUSTRIAL DISPUTES(a): CAUSES, AUSTRALIA, 1975

| | | Manufacturing | | | | r | - | | |
|----------------------------|--------|---------------|-------------------------------|---------|----------------|--------------------------------------|-----------|-----------------|---------------|
| | | • | Metal products, machin- | ducts, | | Transport and storage; communication | | | |
| | Mi | ning | ery and equip- | | Con- struc- | Steve- doring | | Other indus- | All indus- |
| Cause of dispute (b) | Coal | Other | ment (c) | Other | tion | services | Other | tries | tries |
| | | NU | MBER O | F DISPU | JTES | | | _ | |
| Wages | 14 | 35 | 257 | 213 | 122 | 20 | 44 | 115 | 820 |
| Hours of work | 3 | 4 | 7 | 5 | | 2 | 4 | 2 | 27 |
| Leave, pensions, com- | | | _ | | | _ | _ | | |
| pensation provisions, etc. | | 2 | 4 | 4 | | . 5 | _8 | 4 | 27 |
| Managerial policy . | 74 | 76 | 240 | 114 | 110 | 78 | 71 | 73 | 836 |
| Physical working | | | | | | | | | |
| conditions | 34 | 41 | 69 | 25 | 39 | 122 | 27 | 18 | 375 |
| Trade unionism | 33 | 26 | 63 | 19 | 31 | 22 | 20 | 11 | 225 |
| Other | 17 | 4 | 41 | 8 | 7 | 30 | 9 | 6 | 122 |
| Total | 175 | 188 | 681 | 388 | 309 | 279 | 183 | 229 | 2,432 |
| WORKE | RS INV | OLVEI |) (DIREC | TLY AN | ND IND | IRECTL | Y) ('000) | | |
| Wages | 15.8 | 8.4 | 362.8 | 107.0 | 72.4 | 2.7 | 45.8 | 110.1 | 725.1 |
| Hours of work | 0.7 | 0.8 | 5.0 | 1.4 | | 0.1 | 2.6 | 0.1 | 10.6 |
| Leave, pensions, com- | | | | | | | | | |
| pensation provisions, etc. | | 0.4 | 4.6 | 1.0 | | 1.6 | 0.9 | 1.3 | 9.9 |
| Managerial policy . | 14.9 | 14.2 | 54.4 | 25.5 | 26.2 | 10.5 | 9.6 | 43.3 | 198.4 |
| Physical working | | | | | | | | | |
| conditions | 7.3 | 4.5 | 15.5 | 3.7 | 5.4 | 10.6 | 5.5 | 1.3 | 5 3.8 |
| Trade unionism | 5.3 | 4.3 | 14.5 | 7.2 | 14.4 | 3.3 | 24.9 | 12.2 | 86.0 |
| Other | 5.6 | 0.5 | 96.7 | 44.6 | 40.0 | 18.0 | 36.3 | 72.4 | 314.2 |
| Total | 49.5 | 33.0 | 553.5 | 190.5 | 158.4 | 46.9 | 125.5 | 240.7 | 1,398.0 |
| | | WORK | CING DA | YS LOS | T ('000) | | | | |
| Wages | 281.3 | 28.8 | 1,015.7 | 318.4 | 326.0 | 5.0 | 68.0 | 521.7 | 2,565.0 |
| Hours of work | 1.2 | 8.7 | 4.0 | 1.4 | | 0.3 | 3.8 | 0.8 | 20.2 |
| Leave, pensions, com- | | Ų., | • • • • | | | | | • • • | |
| pensation provisions, etc. | | 0.4 | 5.4 | 1.1 | | 1.6 | 0.9 | 0.7 | 10.1 |
| Managerial policy . | 35.1 | 31.4 | 119.4 | 84.4 | 57.0 | 9.8 | 11.8 | 56.7 | 405.6 |
| Physical working | | | | | | - | | • | |
| conditions | 9.8 | 9.4 | 22.7 | 13.2 | 23.4 | 7.2 | 8.1 | 2.0 | 95.9 |
| Trade unionism | 6.6 | 10.9 | 52.9 | 12.9 | 65.4 | 4.5 | 34.4 | 24.0 | 211.7 |
| Other | 9.2 | 0.3 | 59.1 | 32.7 | 25.1 | 17.9 | 19.5 | 37.5 | 201.4 |
| Total | 343.3 | 90.0 | 1,279.2 | 464.1 | 497.0 | 46.2 | 146.7 | 643.5 | 3,509.9 |
| | 245.5 | 70.0 | -,-,-,- | | .,,,, | | | | -,, |

⁽a) Refers only to disputes involving a stoppage of work of ten man-days or more. Industries are classified according to Australian Standard Industrial Classification—see page 301.

(b) For nature of classification, see above.

(c) Includes ASIC sub-divisions 29, 31, 32, 33.

Methods of settlement of disputes

The following table shows particulars of industrial disputes for 1975, classified according to method of settlement. These statistics relate to the method directly responsible for *ending the stoppage of work*. For more information concerning this classification of methods of settlement *see* the quarterly bulletin, *Industrial Disputes* (6.6).

INDUSTRIAL DISPUTES(a): METHODS OF SETTLEMENT, AUSTRALIA, 1975

| | Manufacturing | | | | T | | | | |
|---|----------------|----------|---------------------------------|--------------|------------------------|--------------------------------------|-------------|--------------------------|---------------|
| | | | Metal products, nachinery | Other | Con- struc- tion | Transport and storage: communication | | | |
| Method of settlement | Mining Coal | | and equip- ment(b) | | | Steve- doring services | Other | Other indus- tries | indus |
| | NU | MBER | OF DISF | UTES | | | | | |
| 1. Negotiation | 41 | 72 | 188 | 121 | 78 | 79 | 42 | 51 | 672 |
| Mediation | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 3 | 13 |
| legislation | 4 | 41 | 19 | 52 | 54 | 1 | 8 | 39 | 218 |
| ernment officials 4. Federal and joint Federal-State legis- | • • | • • • | | • • | • • | • • | 2 | 2 | 4 |
| lation (c) 5. Filling the places of workers on strike | 12 | 4 | 62 | 63 | 31 | 6 | 28 | 20 | 226 |
| or locked out 7. Resumption without negotiation 8. Other methods | 117 | 70 | 409 1 | 150 | 2 141 1 | 192 | 101 1 | 113 1 | 1,293 |
| Total | 175 | 188 | 681 | 388 | 309 | 279 | 183 | 229 | 2,43 |
| WORKERS IN | VOLVED | (DIR | ECTLY A | ND INI | DIRECT | LY) ('000 |)) | | |
| 1. Negotiation | 6.3 | 7.8 | 33.1 | 20.9 | 23.6 | 8.0 | 9.5 | 10.1 | 119.1 |
| 2. Mediation 3. State legislation— (a) Under State conciliation, etc. | • | ٠ | 0.9 | 0.4 | 0.2 | • | 0.1 | 2.5 | 4.1 |
| legislation | 0.2 | 5.1 | 4.5 | 13.6 | 5.6 | 0.1 | 0.7 | 27.8 | 57.6 |
| ernment officials 4. Federal and joint Federal-State legis- | •• | ••• | • • | •• | • • | •• | 0.3 | 0.4 | 0.7 |
| lation (c) 5. Filling the places of workers on strike or locked out | 17.6 | 2.1 | 321.0 | 17.3 | 4.7 | 0.8 | 1.9 | 7.7 | 373.1 |
| 7. Resumption without negotiation 8. Other methods | 25.4 | 18. İ | 192.6 1.4 | 138.4 | 124.2 0.1 | 37. 9 | 113. į | 192.2 | 842.0 1.5 |
| Total | 49.5 | 33.0 | 553.5 | 190.5 | 158.4 | 46.9 | 125.5 | 240.7 | 1,398.0 |
| | WORK | ING I | DAYS LO | ST ('000) | | | | | |
| Negotiation | 13.1 | 22.6 | 174.8 5.3 | 115.2 1.7 | 210.2 3.5 | 8.3 | 18.8 2.1 | 44.1 22.5 | 607.1 35.1 |
| (a) Under State conciliation, etc. legislation | 0.3 | 25.9 | 23.9 | 74.2 | 41.8 | 0.1 | 3.5 | 309.5 | 479.3 |
| (b) Intervention, etc. of State gov- ernment officials | | | | | | | 1.4 | 0.3 | 1.7 |
| 4. Federal and joint Federal-State legis- lation (c) | 285.4 | 11.9 | 859.1 | 91.9 | 65.9 | 2.3 | 16.8 | | 1,440.1 |
| 5. Filling the places of workers on strike or locked out | | | •• | | 0.3 | | | | 0.3 |
| 7. Resumption without negotiation | 44.5 | 29.6 | 206.8 9.4 | 181.0 | 175.1 0.2 | 35.5 | 104.1 | 160.2 | 936.8 9.6 |
| Total | 343.3 | 90.0 | 1,279.2 | 464.1 | 497.0 | 46.2 | 146.7 | 643.5 | 3,509.9 |

⁽a) Refers only to disputes involving a stoppage of work of ten man-days or more. Industries are classified according to Australian Standard Industrial Classification—see page 301. (b) Includes ASIC sub-divisions 29, 31, 32, 33. (c) Includes Industrial Tribunals under (i) Conciliation and Arbitration Act (ii) Coal Industry Acts (iii) Stevedoring Industry Act (iv) Other Acts. *Less than 50.

WORKERS' COMPENSATION LEGISLATION

A conspectus of the principal provisions of Workers' Compensation Acts and Ordinances in force in Australia at 31 December 1973 is included in *Labour Report* No. 58, 1973, pages 235-47.

LABOUR ORGANISATIONS

Labour organisations in Australia

The figures shown in this section are prepared from a special collection of membership of labour organisations at 31 December each year. The affairs of single unions are not disclosed in the published results and this has assisted in securing complete information. The Bureau is indebted to the secretaries of trade unions for their co-operation in supplying information. More detailed statistics appear in the annual Labour Report. Current figures are published in an annual bulletin, Trade Union Statistics: Australia (6.24).

Trade unions

For the purpose of these statistics a trade union is defined as an organisation consisting predominantly of employees and whose principal activities include the negotiation of rates of pay and conditions of employment for its members.

The trade unions in Australia are very diverse in character, and range from the small independent association to the large interstate organisation, which, in its turn, may be a branch of an international body. Broadly speaking, there are four distinct classes of labour organisations: (a) the local independent, (b) the State, (c) the interstate, and (d) the Australasian or international; but a number of variations occur from each of these classes. The schemes of organisation of interstate or federated unions vary greatly in character. In some unions the State organisations are bound together under a system of unification with centralised control, while in others the State units are practically independent and self-governing, the federal bond being loose and existing only for one or two specified purposes. Statistics relating to interstate or federated trade unions are shown in a table on page 310.

Returns showing membership by States and Territories at 31 December each year are obtained for all trade unions and employee organisations. The following table shows the position at the end of each of the years 1973 to 1975.

| TRADE UNIONS: | NUMBER AND | MEMBERSHIP, | STATES AND | TERRITORIES | | | | | |
|-----------------------|------------|-------------|------------|-------------|--|--|--|--|--|
| DECEMBER 1973 TO 1975 | | | | | | | | | |

| | | | Number of separate unions | | | Number of members ('000) | | | Percentage increase in membership(a) | | |
|--------------------|--------|--------|---------------------------|--------|--------|--------------------------|---------|---------|--------------------------------------|------|------|
| State or Territory | | | 1973 | 1974 | 1975 | 1973 | 1974 | 1975 | 1973 | 1974 | 1975 |
| New South Wales | | | 192 | 190 | 187 | 1,032.0 | 1,047.9 | 1,075.0 | 4.4 | 1.5 | 2.6 |
| Victoria | | | 159 | 158 | 159 | 681.6 | 711.6 | 722.3 | 4.5 | 4.4 | 1.5 |
| Queensland . | | | 140 | 137 | 134 | 362.1 | 375.1 | 373.1 | 5.4 | 3.6 | 4.8 |
| South Australia | | | 135 | 135 | 135 | 241.8 | 252.8 | 255.6 | 8.1 | 4.5 | 1.1 |
| Western Australia | | | 154 | 151 | 147 | 197.4 | 216.4 | 214.3 | 6.8 | 9.6 | -1.0 |
| Tasmania . | | | 118 | 121 | 117 | 84.1 | 89.1 | 87.4 | 4.5 | 5.9 | -1.9 |
| Northern Territory | (b). | | 58 | 65 | 62 | 13.5 | 16.4 | 15.2 | (b) | (b) | (b) |
| Australian Capital | Territ | ory(b) | 87 | 88 | 87 | 47.5 | 52.5 | 50.9 | (b) | (b) | (b) |
| Australia | | . (| c) 294 | (c)285 | (c)280 | 2,659.9 | 2,761.7 | 2,813.8 | 5.4 | 3.8 | 1.9 |

⁽a) On preceding year. (b) Some unions in the Territories are affiliated with State organisations and their membership is reported under the heading of that State. More accurate reporting of membership by location by trade unions over the years is reflected in the annual figures for the Territories and this affects their comparability over time. (c) Without interstate duplication—see below.

In the preceding table, under the heading 'Number of separate unions', a union reporting members in a State or Territory is counted as one union within that State or Territory. The figures do not add to the Australian total (shown in the last line) because a union represented in more than one State or Territory is included in the figure for each State or Territory in which it is represented, but is counted only once in the Australian total.

A table showing the number and membership of trade unions in Australia for each year since 1912 is included in the Appendix to Labour Report No. 58, 1973.

Number of trade union members and proportion of wage and salary earners. The following table shows the approximate percentages of wage and salary earners in employment who were members of trade unions. The estimates of total wage and salary earners have been derived by adding figures for employees in agriculture and in private households employing staff to the estimates of employees in all other industries as at the end of each year. The percentages shown should be regarded as giving only a broad indication of the extent of union membership among wage and salary earners because they are based on estimates of employed wage and salary earners that are subject to revision. The degree of unemployment of reported union members would affect the percentages for a particular year and

comparisons over time. The employment estimates have recently been revised to incorporate new benchmarks derived from the 1971 population census and other sources and are now classified according to the Australian Standard Industrial Classification. The percentages shown in this table for 1971 and later years have been revised. The percentages have been revised back to 1968. For details see Trade Union Statistics: Australia, December 1975 (6.24).

TRADE UNIONS: NUMBER OF MEMBERS AND PROPORTION OF TOTAL WAGE AND SALARY EARNERS, AUSTRALIA(a)

| E.J.C | | | Number o ('000) | f members | | Proportion salary ear (Per cent) | | and |
|--------------------|----|------|--------------------|-----------|---------|--|---------|---------|
| End of December | r— | | Males | Females | Persons | Males | Females | Persons |
| 1971 . | | | 1,818.2 | 618.3 | 2,436.6 | 60 | 40 | 53 |
| 1972 . | | | 1,827.4 | 696.2 | 2,523.7 | 59 | 43 | 54 |
| 1973 . | | | 1,904.9 | 755.0 | 2,659.9 | 61 | 44 | 55 |
| 1974 . | | | 1,964.4 | 797.3 | 2,761.7 | 62 | 46 | 56 |
| 1975 . | | | 1,966.0 | 847.9 | 2,813.8 | 63 | 48 | 58 |

(a) See text above.

Interstate or federated trade unions. The following table gives particulars of the number and membership of interstate or federated trade unions in 1975.

INTERSTATE OR FEDERATED TRADE UNIONS(a): AUSTRALIA, DECEMBER 1975

| | U | Inions op | perating i | n | | | | | |
|------------------|---|--------------|------------|----------|----------|----------|----------|---------------------|----------------|
| | _ | 1 State | 2 States | 3 States | 4 States | 5 States | 6 States | 2 to 6 States(b) | |
| Number of unions | : | 139 168.5 | 8 18.0 | • | | | | 141 2,645.3 | 280 2,813.8 |

⁽a) Certain unions in this group have, in addition to branches in the States, branches in the Northern Territory or the Australian Capital Territory or both. (b) Total of previous five columns. Figures refer to interstate or federated unions.

Employer and employee organisations registered under Industrial Arbitration Acts, etc.

The Federal Conciliation and Arbitration Act 1904-1975 and a number of State industrial arbitration acts provide for the registration of employer and employee organisations as outlined below. For further details see the annual Labour Report. In general, registration is necessary before an organisation may appear before the relevant industrial arbitration tribunal.

In Victoria and Tasmania where wages and conditions of work in the State sphere are determined by Wages Boards there is no provision in industrial arbitration legislation for registration of trade unions or employer organisations.

Federal. At the end of 1975 the number of employers' organisations registered under the provisions of the Conciliation and Arbitration Act 1904–1974 was 78. The number of unions registered at the end of 1975 was 147, with membership of 2,482,200, representing 88 per cent of the total membership of all trade unions in Australia. Lists of organisations of employees and employers registered under this Act are contained in the Industrial Information Bulletin, Vol. 30 No. 1, January 1975 published by the Department of Labor and Immigration.

New South Wales. At 30 June 1975 there were 119 employee unions and 287 employer unions registered under provisions of the Industrial Arbitration Act, 1940–1975, and 136 employee unions, 11 employer unions, and 2 other unions registered under the Trade Union Act, 1881–1972. Lists of unions registered under these Acts are included in the New South Wales Industrial Gazette (see Vol. 198 Part 1 for details at 30 June 1975).

Queensland. At 31 December 1975 there were 73 employee unions registered under the Industrial Conciliation and Arbitration Act 1961–1974 with a reported membership of 340,943. At the same date 43 employer unions with a reported membership of 39,613 employers were registered. Lists of registered employee and employer unions are published in the annual report of the President of the Industrial Court.

South Australia. At the end of December 1975 there were 6 employer associations and 71 employee associations registered under the provisions of the *Industrial Conciliation and Arbitration Act* 1972–1975. Membership of these employee associations totalled approximately 198,000.

Western Australia. At 30 June 1975 there were 85 unions of workers, with an aggregate membership of 178,171, registered under the provisions of the *Industrial Arbitration Act*, 1912–1975. At the same date there were 14 registered unions of employers with a reported aggregate membership of 2,181 employers. Lists of registered unions of workers and of employers together with membership figures are published in the Western Australian Industrial Gazette (see Vol. 54, Appendix XIII).

Central labour organisations

Trades and Labour Councils. Delegate organisations, usually known as Trades Hall Councils or Labour Councils and consisting of representatives of a number of trade unions, have been established in the capital cities and in a number of other centres in each State. In the centres where these councils exist most unions or local branches operating in the district are affiliated. The district councils obtain their finance by means of a per capita tax on members of affiliated unions.

At 31 December 1974 there were 48 trades and labour councils in Australia, including councils that were affiliated with, or were branches of, a large State or district council. In New South Wales there were 10 trades and labour councils, 8 in Victoria, 13 in Queensland, 7 in South Australia, 3 in Western Australia, 6 in Tasmania, and 1 in the Australian Capital Territory.

As well as trades and labour councils there are councils organised on trade lines and composed of delegates from separate unions whose members' interests are closely connected by reason of their occupations. Delegate councils of unions connected directly or indirectly with the metal trades, or with the building trades, are examples of such organisations.

Australian Council of Trade Unions. A central labour organisation, now called the Australian Council of Trade Unions, came into being during 1927. The Council was created to function on behalf of the trade unions of Australia, and was founded at an All-Australian Trade Union Congress held in Melbourne in May 1927. The A.C.T.U. consists of affiliated unions and approved State Trades and Labour Councils and Provincial Councils. The State Trades and Labour Council in each State is the State Branch of the A.C.T.U. and it has the right to appoint one representative to act on the executive of the Council. In addition to the four A.C.T.U. officers and representatives of the State Branches of the A.C.T.U., seven delegates are elected by and from Congress, one from each of the following industry groups: Building, Food and distributing services, Manufacturing, Metal Services, Transport, and the A.W.U. group. The President and Secretary are full-time officials and, with the two Vice-Presidents, are elected by and from the Australian Congress of Trade Unions. The ordinary meetings of Congress are held in alternate years. The 1973 Biennial Congress was held in August-September. Special meetings of Congress are held whenever deemed advisable by decision of the executive, as approved by the majority of its branches, or by resolution supported by unions representing one-third of the total membership of the A.C.T.U.

For further particulars see the annual Labour Report.

Other. In addition to the A.C.T.U., other central labour organisations exist. These include the Australian Council of Salaried and Professional Associations, the Council of Australian Government Employee Organisations (formerly the Council of Commonwealth Public Service Organisations) and the Council of Professional Associations. Details of these councils will be found in Labour Report No. 58, 1973, pages 254-55.

International Labour Organisation

The International Labour Organisation (I.L.O.) was established on 11 April 1919, as an autonomous institution associated with the League of Nations. Its original constitution was adopted as Part XIII of the Treaty of Versailles. With certain amendments this constitution remains the charter of I.L.O. to this day, bringing governments, employers and trade unions together to discuss international labour and social problems. A new definition of the aims and purposes of the I.L.O., known as the Declaration of Philadelphia, was added to the constitution at the 1944 Session of the International Labour Conference and this asserted the responsibility of I.L.O. in combating poverty and insecurity. In 1946 the Organisation became the first of the specialised agencies of the United Nations. Under the terms of agreement, the United Nations recognises the I.L.O. as a specialised agency having responsibility in the field defined by its constitution, which embraces labour conditions, industrial relations, employment organisation, social security and other aspects of social policy.

The Organisation has three basic parts. These are the International Labour Conference, its highest authority, which usually meets annually; the Governing Body, its executive council, which usually meets three times each year; and the International Labour Office, which provides the

Secretariat of the Organisation. The Conference is composed of delegations from the member States of the Organisation. At the end of 1974 there were 125 member States, each of which is entitled to be represented by four delegates—two representing the government, one representing employers and one representing workers, together with their advisers. Each delegate speaks and votes independently, so that all points of view in each country are fully expressed. The Governing Body consists of the representatives of twenty-eight governments, and fourteen employers' and fourteen workers' representatives. Particulars of the proceedings of International Labour Conferences up to the 58th Session and details of I.L.O. conventions ratified by Australia are given in *Labour Report* No. 58, 1973, pages 255–59.

PRICES JUSTIFICATION TRIBUNAL

General

The Prices Justification Tribunal was established in August 1973 under the provisions of the *Prices Justification Act* 1973. The Tribunal is a fully discretionary body appointed under the Act to consider the justification for proposed price increases put to it by companies subject to the Act. It is not a price regulating authority.

Organisation

The Tribunal consists of a Chairman and such number of other members as are from time to time appointed in accordance with the Act. The Office of the Prices Justification Tribunal comprises the staff required to assist the Tribunal in the performance of its functions, and consists of persons appointed or employed under the Public Service Act 1922.

Further information on the Prices Justification Tribunal is contained in its Annual Reports to Parliament,

Activities in 1974-75

The Tribunal processed 7,502 notifications of higher prices during the year 1974–75. 632 exemption orders were authorised, and the Tribunal held 33 public inquires during the course of the year. In addition 42 investigations were undertaken pursuant to the Tribunal's powers under Section 16 of the Act, and 659 inquires were dealt with. Of the 7,502 notifications, proposed prices were approved on the basis of the original notice, without public inquiry, in 6,271 cases, 863 notices were approved on the basis of substitute notices for lower price increases, and 178 notices were withdrawn by companies. The remainder of cases either proceeded to public inquiry, or were withdrawn or amended after a Public Inquiry notice was issued. Comparable figures for the 11 months ended 30 June 1974 were: 3,859 notifications; 3,356 approved without amendment; 421 amended; 36 withdrawn; 15 public inquires; 1,495 exemption orders.

Legislative provisions

Section 16 of the Prices Justification Act 1973 provides that:

'The functions of the Tribunal are to inquire and report to the Minister, in any case where the Tribunal is required to do so by the Minister or the Tribunal considers that it is desirable to do so, whether the price or prices at which a company or companies (whether a prescribed company or prescribed companies or not) supplies or supply, or proposes or propose to supply, goods or services of a particular description is or are justified and, if the Tribunal is of the opinion that the price or any of the prices is not justified, what lower price for the supply by the company or companies concerned of goods or services of that description would be justified.'

Three important features of the legislation are:

- (a) A Tribunal inquiry may be initiated by the Minister.
- (b) The Tribunal may initiate inquiries in its own right.
- (c) Following an inquiry, the Tribunal is required to report whether it is of the opinion that the price at which the company supplies or proposes to supply the goods in question is justified and if not what lower price would be justified.

Other important features of the legislation include the following:

- (a) The legislation applies to prescribed companies which are companies or groups of related companies with an annual turnover in excess of \$20 million. Such companies are required to notify the Tribunal in writing of any proposal to increase the prices of goods or services supplied by that company.
- (b) Companies whose annual turnover does not exceed \$20 million are not required to notify the Tribunal of proposed price increases but the Tribunal may investigate the prices charged by such companies on its own initiative.

- (c) The Tribunal must notify a company within 21 days of the receipt of a notice of proposed prices if it intends to proceed to a public inquiry. If the period of 21 days has elapsed or the Tribunal has notified the company that it does not intend to hold an inquiry, the company may put the proposed prices into operation.
- (d) In the event of a public inquiry the prices of a company's goods and services referred to in its notice must not be raised until the Tribunal has completed the inquiry and its report has been made public by the Minister.

Guidelines and criteria

The legislation does not provide guidelines or criteria for the Tribunal to observe in its consideration of price proposals. The development of such guidelines and criteria has rested with the Tribunal. In considering notices of proposed price increases the Tribunal has regard for all relevant aspects and particularly the following:

- (a) Costs which have actually been incurred.
- (b) The distinction between 'avoidable' and 'unavoidable' cost increases.
- (c) Wage increases which are over-award wage agreements, consent agreements or other arrangements. In this regard the Tribunal places responsibility on companies to justify recoupment in prices of additional costs resulting from such agreements or arrangements on wage rates.
- (d) Prices should reflect a reasonable allowance for productivity achievements to offset increases in costs.
- (e) Regard is taken of the level of profitability of the company and its capacity to maintain a reasonable level of investment and growth.

Notices of proposed prices

Section 18 of the Prices Justification Act requires companies to submit a notice in writing to the Tribunal giving details of proposed increases in prices to apply to goods or services supplied by the company. There are four broad categories of treatment of a company's notification of price increases.

- (a) Where notified price increases are accepted by the Tribunal the company is forwarded a *Notice of No Inquiry* and may proceed with the proposed price increases.
- (b) If the Tribunal considers that a lower price than that proposed by a company is just, it may invite the company to discuss the matter in private session. If agreement is reached on a level of price increase then a Substituted Price Notice is issued and the company may proceed with the agreed price increase.
- (c) If a company chooses to pursue a price proposal discussed in private session but for which agreement was not forthcoming, the Tribunal may decide to consider the matter in a *Public Inquiry*.
- (d) The Prices Justification Act, Section 18 (8), provides for the Tribunal to give an exemption to a company in respect of its obligation to notify the Tribunal of proposed increases in prices of goods or services supplied. Such exemptions are given as a device to enable companies to proceed with price increases in cases where the Tribunal is satisfied the conditions governing the exemption and the competitive forces in the market place are sufficient to ensure that prices charged will be justified.



CHAPTER 11

OVERSEAS TRANSACTIONS

This chapter includes statistics of overseas trade, balance of payments, and overseas investment by private investors, but because of limitations of space the statistics are, in the main, restricted to summarised form. For detailed information see the Annual Bulletin of Overseas Investment, Australia (5.20) and the associated bulletin Overseas Borrowings by Companies in Australia (5.39) (latest issue 1974-75; and the other annual bulletins Overseas Trade (preliminary) (8.15) (8.16) and final (issued in two parts) (8.11)), Australian Exports, Country by Commodity (8.4), Australian Imports, Country by Commodity (8.19), Imports Cleared for Home Consumption (issued in two parts) (8.7) and the annual bulletin Balance of Payments (8.1). Preliminary information is available in summary form in the statements Balance of Payments-Quarterly Summary (8.2), Overseas Investment-Preliminary Bulletin (annual) (5.21), Overseas Borrowings by Companies in Australia (preliminary) (5.41), Australian Overseas Trade-Exports and Imports (8.12) (monthly), Overseas Trade-Exports by Commodity Divisions (monthly) (8.18), and Overseas Trade-Imports by Commodity Divisions (monthly) (8.13). Current information is included in the Monthly Review of Business Statistics (1.4), the Digest of Current Economic Statistics (1.5), and in more detail in the Monthly Bulletins of Overseas Trade Statistics (8.9) (8.10). There are also the following additional mimeographed statements: Exports of Major Commodities by Country (monthly) (8.5), Imports of Assembled New Passenger Motor Cars (monthly) (8.8) and Exports by Mode of Transport (quarterly) (8.25). Additional unpublished details of exports and imports can be supplied on request.

A subscription service is available from this Bureau to provide for the detailed requirements of individual users of overseas trade statistics. These special periodical statements are obtainable monthly or quarterly and show trade according to items of the Australian Export and Import Commodity Classifications or statistical key code dissections of Australian Customs Tariff items. A nominal charge is made which varies depending on the amount of detail required.

OVERSEAS TRADE

Constitutional provisions and legislation

Constitutional provisions

By the Commonwealth of Australia Constitution Act, Section 51 (1), the power to make laws with respect to trade and commerce with other countries was conferred on the Australian Parliament. Under Section 86 of the Constitution, the collection and control of duties of customs and excise passed to the Executive Government of the Commonwealth on 1 January 1901. Other references to trade and commerce are contained in Sections 87 to 95 of the Constitution (see pages 17–18).

Commonwealth Government legislation

Commonwealth Government legislation affecting overseas trade includes: the Customs Act, the Customs Tariff and the Customs Tariff (Anti-Dumping) Act 1975. The Customs Tariff provides the statutory authority for imposing the actual rates of duty operative from time to time, while the Customs Tariff (Anti-Dumping) Act provides protection for Australian industry against various forms of unfair trading.

The Customs Tariff

The first Australian Customs Tariff was introduced by Resolution on 8 October 1901, from which date uniform duties came into effect throughout Australia. The Australian Customs Tariff has been developed in conformity with the policy of protecting economic and efficient Australian industries and of granting preferential treatment to certain imports from countries of the Commonwealth and certain developing countries. Duties are imposed on some goods, generally of a luxury nature, for revenue purposes. Customs collections are a major source of revenue but in its protective character the tariff has an important influence on the Australian economy.

The present tariff provides for general and preferential rates of duty, and its structure is based on the 'Brussels Nomenclature' which has its origins in the Convention on Nomenclature for the Classification of Goods in Customs Tariffs, signed in Brussels on 15 December 1950. Australia has operated a 'Brussels-type' tariff since 1 July 1965.

Preferential rates. Preferential rates apply to goods the produce or manufacture of the United Kingdom, Ireland, Canada, New Zealand, and Papua New Guinea, and certain goods the produce or manufacture of specified countries, provided that such goods comply with the laws in force at the time affecting the grant of preference. With the termination on 1 February 1973 of the United Kingdom-Australia Trade Agreement existing preferential rates applicable to United Kingdom goods are under review.

The following are the rules of origin for preference purposes as defined in the Customs Act.

- 151.—(1.) For the purposes of this Act and the Customs Tariff 1966 (other than section 20 of the last-mentioned Act), goods shall be treated as the produce of a country if they are unmanufactured raw products of the country.
- (2.) For the purposes of this Act and the Customs Tariff 1966 (other than section 16A or 20 of, or Part IX of Schedule 5 to, the last-mentioned Act), goods shall be treated as the manufacture of a country—
 - (a) if the goods were wholly manufactured in the country from materials of one or more of the following classes:—
 - (i) unmanufactured raw products;
 - (ii) materials wholly manufactured in the country or in Australia, or in the country and in Australia; and
 - (iii) imported materials that the Minister has, in relation to the country, determined, by notice published in the Gazette, to be manufactured raw materials; or
 - (b) if the goods were partly manufactured in the country, the process last performed in the manufacture of the goods was performed in the country and—
 - (i) not less than three-quarters or, in the case of goods that are of a class or kind not commercially manufactured in Australia, one-quarter of the factory or works cost of the goods is represented by the value of labour or materials, or, of labour and materials, of the country or of the country and Australia; or
 - (ii) in the case where the country is New Zealand—not less than one-half, or, in the case of goods, included in a class of goods in respect of which the Minister has determined, by notice published in the *Gazette*, that another portion is appropriate, that portion, of the factory or works cost of the goods is represented by the value of labour, or materials, or of labour and materials, of New Zealand or of New Zealand and Australia.
- (3.) For the purposes of section 16A of, or Part IX of Schedule 5 to, the Customs Tariff 1966 goods shall be treated as the manufacture of a country if—
 - (a) the process last performed in the manufacture of the goods was performed in the country;
 - (b) not less than one-half of the factory or works cost of the goods is represented by the value of labour or materials, or of labour and materials, of the country or of the country and one or more of the following countries, that is to say, Australia and countries that, at the time the goods are entered for home consumption, are developing countries, other than a country that, by virtue of a direction under sub-section (2.) of section 11 of the Customs Tariff 1966 is not to be treated as a developing country in relation to the class of goods in which the goods are included.
- (4.) For the purposes of the last two preceding sub-sections, the Minister may, by notice published in the Gazette—
 - (a) specify the manner in which the factory or works cost of goods is to be determined; and
 - (b) specify the manner in which the value of labour, the value of materials or the value of labour and materials is to be determined.
- (5.) For the purposes of sub-paragraph (1) of paragraph (b) of sub-section (2.) the Minister may, by notice published in the *Gazette*, determine that goods specified in the notice, or goods included in a class of goods so specified, shall be deemed to be goods of a class or kind not commercially manufactured in Australia.
- (6.) The Minister may, by notice published in the *Gazette*, determine that the reference in sub-paragraph (1) of paragraph (b) of sub-section (2.) to one-quarter shall, in relation to goods specified in the notice, or goods included in a class of goods so specified, be read as a reference to one-half.

- (8.) Notwithstanding anything contained in this section—
- (a) the Minister may, subject to the next succeeding paragraph, direct that, for the purposes of this Act and the Customs Tariff 1966 (other than section 16A or 20 of, or Part IX of Schedule 5 to, the last-mentioned Act), a cinematograph film that is, under the laws of the United Kingdom relating to the registration of cinematograph films, certified by the Board of Trade of the United Kingdom to be registered as a British film shall be treated as the manufacture of the United Kingdom; and
- (b) a cinematograph film printed in the United Kingdom shall not, for the purposes of this Act or the Customs Tariff 1966 (other than section 16A or 20 of, or Part IX of Schedule 5 to, the last-mentioned Act), be treated as the manufacture of the United Kingdom unless it was printed from a negative the manufacture of the United Kingdom.
- (9.) This section does not apply for the purposes of determining whether goods are the produce, or the manufacture, of Australia.
- (10.) In this section, "unmanufactured raw products" means natural or primary products that have not been subjected to an industrial process, other than an ordinary process of primary production, and includes, without limiting the generality of the foregoing—
 - (a) animals, and parts of animals obtained by killing, including bones, hides and skins (raw or sun-dried);
 - (b) greasy wool;
 - (c) plants, and parts of plants, including raw cotton, bark, fruit, nuts, grain, seeds (in their natural state) and unwrought logs;
 - (d) minerals in their natural state and ores; and
 - (e) crude petroleum.
- 151A—(1.) For the purposes of this Act and the Customs Tariff 1966 (other than section 16A or 20 of, or Part IX of Schedule 5 to, the last-mentioned Act), goods shall not be treated as the produce or manufacture of the United Kingdom, Canada, New Zealand, Ireland, Malawi, Southern Rhodesia*, Zambia, the Territory of Papua or the Territory of New Guinea unless they have been shipped from that country to Australia and, except where the Collector is satisfied that the intended destination of the goods when originally shipped from that country was Australia, have not been transhipped.

The last preceding sub-section does not apply—

- (a) to goods the produce or manufacture of a country other than New Zealand that are imported into Australia from New Zealand; or
- (b) to goods the produce or manufacture of a country other than the Territory of Papua or the Territory of New Guinea that are imported into Australia from the Territory of Papua or the Territory of New Guinea.

For the purposes of this section-

- (a) goods may be treated as having been shipped from the Territory of Papua or the Territory of New Guinea if they have been shipped from either of those territories; and
- (b) goods may be treated as having been shipped from Malawi, Southern Rhodesia or Zambia if they have been shipped from any of those countries or from Lourenco Marques or Beira in Mozambique.

Declared preference countries, Customs Tariff. 10.—(1.) The Minister may, by order published in the Gazette, declare that a country specified in the order is a declared preference country for the purposes of this Act.

- (2.) An order under the last preceding sub-section has effect, or shall be deemed to have had effect, from and including such date (which may be a date earlier than the date of publication of the order in the *Gazette*) as is specified in the order.
- (3.) The Minister may, by order, published in the *Gazette*, revoke an order under sub-section (1.) of this section.
- (4.) An order under the last preceding sub-section has effect from and including such date (which shall not be a date earlier than the date of publication of the order in the *Gazette*) as is specified in the order.
- (5.) Goods shall not be treated as the produce or manufacture of a declared preference country for the purposes of this Act unless, at the time the goods are entered for home consumption, the order under sub-section (1.) of this section in which the declared preference country is specified has effect or is deemed to have had effect.

[.] Under the United Nations Security Council's resolutions on Southern Rhodesia trade with that country is prohibited.

Declared preference countries comprise:

Bahamas Barbados Bermuda

British Indian Ocean Territory

British Virgin Islands Brunei Cyprus

Falkland Islands and Dependencies

Fiii Gambia, The

Ghana Gibraltar Gilbert and Ellice Islands

Colony Grenada Guvana

Honduras, Republic of Hong Kong, Colony of Jamaica

Kenva Leeward Islands Malaysia

Maldives, Republic of the

Malta Mauritius Nigeria

St Helena Sevchelles Sierra Leone

Singapore, Republic of Solomon Islands

Sri Lanka Tanzania Tonga

Trinidad and Tobago

Uganda

Windward Islands

Developing countries, Customs Tariff

11.—(1.) The Minister may, by order published in the Gazette—

- (a) declare that a country specified in the order is a developing country for the purposes of this
- (b) declare that a place specified in the order is to be treated as a developing country for the purposes of this Act.
- (2.) The Minister may, in an order under sub-section (1.), direct that a country or place that is specified in the order shall not be treated as a developing country in relation to a class of goods specified in the direction.
- (3.) An order under sub-section (1.) has effect, or shall be deemed to have had effect, from and including such date (which may be a date earlier than the date of publication of the order in the Gazette) as is specified in the order.
 - (4.) The Minister may, by order published in the Gazette, revoke an order under sub-section (1.).
- (5.) An order under sub-section (4.) has effect from and including such date (which shall not be a date earlier than the date of publication of the order in the Gazette) as is specified in the order.

Developing countries comprise:

Afghanistan Albania Algeria American Samoa

Angola Arab Republic of Egypt

Argentina Bahamas Bahrain Bangladesh Barbados **Belize**

Benin, People's Republic of

Bermuda Bhutan Bolivia Botswana Brazil‡

British Indian Ocean

Territory British Virgin Islands

Brunei Bulgaria

Burma, Socialist Republic of the Union of

Cameroon

Cape Verde Islands Cayman Islands

Central African Republic

Chad Chile Colombia Comoro Islands

Congo, People's Republic

of the Cook Islands Costa Rica Cuba Cyprus

Democratic People's Republic of Korea Democratic Republic of

Sao Tome and Principe Democratic Republic of Viet Nam Dominican Republic **Ecuador**

El Salvador Ethiopia Falkland Islands and

Dependencies Fiii

French Polynesia Gabon

Gambia, The Ghana

Gibraltar

Gilbert and Ellice Islands

Colony Greece Grenada Guam Guatemala Guinea Guinea-Bissau Guvana Haiti

Honduras, Republic of Hong Kong, Colony of*

India Indonesia Iran Iraa Israel* **Ivory Coast** Jamaica

Johnston and Sand Islands

Jordan Kenya

Khmer Republic, The

Kuwait Laos Lebanon

DEVELOPING COUNTRIES-continued

Leeward Islands Peru Togo Lesotho **Philippines** Tokelau Islands Liberia Pitcairn Islands Tonga Libyan Arab Republic Portugal Trinidad and Tobago Macao Qatar Tunisia Malagasy Republic Republic of Equatorial Turkey Malawi Guinea Turks and Caicos Islands Malaysia Republic of Korea Uganda Maldives, Republic of The Republic of Nauru Union of Arab Emirates Republic of Viet Nam (Ras Al Khaimah, Abu Malta Romania Dhabi, Dubai, Sharjah Rwanda Mauritania Ajman, Umm Al Mauritius St Helena Qaiwain, Fujairah) Mexico St Pierre and Miquelon United States Trust Midway Island Saudi Arabia Territory of the Pacific Mongolia Senegal Islands Morocco Seychelles Upper Volta Mozambique Sierra Leone Uruguay Nepal Singapore, Republic of Venezuela Netherlands Antilles Solomon Islands Virgin Islands of the New Caledonia Somali Democratic United States New Hebrides Republic Wake Island Condominium Spanish Sahara Wallis and Futuna Islands Nicaragua Sri Lanka Western Samoa Niger Sudan Windward Islands Nigeria Surinam Yemen Arab Republic Niue Island Swaziland Yugoslavia Oman Syrian Arab Republic Zaire, Republic of Pakistan Taiwan Province§ Zambia Panama Tanzania Papua New Guinea Territory of the Afars and

(a) gloves, mittens or mitts of the work type falling within 42.03.1, not being goods that—
(i) were in transit to Australia or in bond in Australia on 24 October 1975; and

Issar

Thailand

Timor

(i) were in transit to Austrana or in bond in Austrana on 24 October 2 (ii) are entered for home consumption on or before 24 January 1976; or (b) goods to which a tariff classification specified hereunder applies:

34.06 67.04.1 67.04.9 85.09.4
42.03.9 67.04.2 70.12 94.01.2
61.05 67.04.3 85.09.3 94.01.4 94.01.9 94.03.2 94.03.9 97.03.9

Paraguay

People's Democratic

Republic of Yemen

61.05 67.04.3 85.09.3 94.01.4 94.03.2 97.03.9

† Except in respect of goods to which item 36 of Schedule 2 applies, Israel has been declared not to be a developing country in relation to goods to which 40.11.2 or 40.11.9 applies.

‡ Except in respect of goods to which item 36 of Schedule 2 applies, Brazil has been declared not to be a developing country in relation to goods to which item 36 of Schedule 2 applies, Brazil has been declared not to be a developing country in relation to goods to which 41.02.9 or 41.08 applies.

§ Except in respect of goods to which item 36 of Schedule 2 applies, Taiwan has been declared not to be a developing country in relation to:

(a) goods falling within 40.11.2 or 40.11.9;

(b) gloves, mittens or mitts of the work type falling within 42.03.1, not being goods that—

(i) were in transit to Australia or in bond in Australia on 24 October 1975; and

(ii) are entered for home consumption on or before 24 January 1976;

(c) drilling machines of the bench or pedestal type falling within 84.45.3, not being goods that—

(i) were in transit to Australia or in bond in Australia on 11 November 1975; and

(ii) are entered for home consumption on or before 10 February 1976;

(d) launches and sailing yachts having an overall length not less than 7.5 metres and not more than 13.5 metres falling within 89.01.9;

(e) goods falling within 94.01.1, 94.01.3, 94.01.9 or 94.03.9: and

within 89.01.9;
(e) goods falling within 94.01.1, 94.01.3, 94.01.9 or 94.03.9; and
(f) fishing rods falling within 97.07.9.

|| Except in respect of goods to which item 36 of Schedule 2 applies, the Republic of Korea has been declared not to be a developing country in relation to fishing rods falling within 97.07.9.

General rates: General rates apply to goods from all countries which do not qualify for preferential rates of duty under a particular tariff classification.

By-law provisions. Customs By-laws and Ministerial Determinations are legal instruments, made in accordance with the provisions of Sections 271 to 273D of the Customs Act, to authorise admission of imported goods either free of duty or at rates of duty lower than those normally applicable. The rates of duty that apply where concessional entry has been granted are contained in the Customs Tariff and are identified by the words 'as prescribed by by-law'. The most frequently used by-law

^{*} Except in respect of goods to which item 36 of Schedule 2 applies, Hong Kong has been declared not to be a developing country in relation to:

provision is Item 19 in Schedule 2 to the Customs Tariff which allows duty free admission of goods, 'being goods a suitable equivalent of which that is the produce or manufacture of Australia is not reasonably available'. Normally by-laws identify goods by general description, have neither quantity nor time limitations and may be used by any importer. Ministerial Determinations may be either in that form or if it is necessary to limit the availability of concessions to ensure that the tariff protection accorded to local industry is maintained, be restricted in some way, e.g. quantity or time limitations. By-laws and notices of the making of Ministerial Determinations are published in the Commonwealth of Australia Gazette.

Primage duties. In addition to the ordinary duties of customs imposed by the Customs Tariff, ad valorem primage duties at rates of three per cent, seven and a half per cent and 10 per cent are charged on some goods according to the types of goods and origin thereof. Other goods are exempt from primage duty. Goods the produce or manufacture of New Zealand, Norfolk Island, Fiji, Cocos (Keeling) Islands, Christmas Island and Papua New Guinea are exempt from primage duty.

Anti-dumping duties. The Customs Tariff (Anti-dumping) Act 1975 provides protection for Australian industry against various forms of unfair trading. Under this Act dumping duty may be imposed on goods that are sold to Australian importers at a price which is less than the normal value of the goods, where this causes or threatens material injury to an Australian industry. 'Normal value' under the Act means:

- (a) the price paid for like goods sold for use in the country of export;
- (b) the cost of production, plus f.o.b. charges, selling costs and profit;
- (c) the highest price paid for like goods sold to a third country;
- (d) the price of like goods from a country with similar costs of production to the exporting country; or
- (e) where insufficient information is available, a price determined by the Minister.

The amount of dumping duty is the difference between the normal value and f.o.b. export price.

Countervailing duty may be levied on goods in respect of which any subsidy, bounty, reduction or remission of freight, or other financial assistance has been, or is being, paid or granted directly or indirectly upon the production, manufacture, carriage or export of those goods. The amount of the countervailing duty in respect of any goods is a sum equal to the amount of the subsidy, bounty, reduction or remission of freight or other financial assistance.

Import controls

Customs (Import Licensing) Regulations. A comprehensive system of import licensing was introduced in Australia at the beginning of the Second World War under the authority of the Customs (Import Licensing) Regulations. Following the gradual relaxation of the restrictions from the end of the war, import licensing was re-imposed on 8 March 1952 and continued in force until 18 October 1962. From that date restrictions were removed from all commodities with the exception of some goods retained under control for reasons associated with the protection of Australian industry. From 1974, some additional commodities were brought under short term licensing control for industry protection of emergency nature. The goods subject to import licensing control as at 1 April 1976 are broadly described as used, secondhand or disposal earthmoving and construction equipment, used or secondhand four-wheel-drive vehicles, completely built up motor vehicles, certain footwear and certain apparel from China (excluding Taiwan Province) or Taiwan Province.

Tariff quotas. Ministerial Determinations under the By-law provisions (see above) are also utilised to give effect to Government decisions to restrain the quantity of particular goods to be imported over a given period. In these cases import quotas are issued to established importers restricting the quantity which may be entered at the normal duty rate. Goods imported in excess of quotas issued attract a substantial additional duty.

Export controls and incentives

Export restrictions. Section 112 of the Customs Act provides that the Governor-General may, by regulation, prohibit the exportation of goods from Australia and that this power may be exercised by: (a) prohibiting the exportation of goods absolutely; (b) prohibiting the exportation of goods to a specified place; and (c) prohibiting the exportation of goods unless prescribed conditions or restrictions are complied with. Goods subject to this export control are listed in the Customs (Prohibited Exports) Regulations.

Exchange control—Banking Act 1959. As an integral part of the framework of exchange control, a control over goods exported from Australia is maintained under the provisions of Part III of the Banking (Foreign Exchange) Regulations, to ensure that the full proceeds of such goods are received into the Australian banking system and that these proceeds are received in the currency and in the

manner prescribed by the Reserve Bank of Australia. This action is complementary to that taken under other parts of the Banking (Foreign Exchange) Regulations to control the movement out of Australia of capital in the form of securities and currency.

Export licences are issued subject to terms and conditions specified in the Banking (Foreign Exchange) Regulations, and may be subject to such further terms and conditions as are determined, or may be free from terms and conditions. On the receipt in Australia by the Reserve Bank, or by a bank acting as agent for that Bank, of advice that the foreign currency has been paid to the Reserve Bank or to an agent of the Bank in payment for goods exported in accordance with a licence granted under the regulations, the Bank, or an agent of the Bank, pays the licensee, or such other person as is entitled to receive it, an amount in Australian currency equivalent to the foreign currency received. In addition to commercial transactions involving exports, movements of personal effects are also controlled. Residents of Australia, leaving for overseas are required to obtain a licence to cover their bona fide personal and household effects where the total value exceeds \$10,000 or where the articles are to be sold abroad. Non-residents require a licence if articles acquired in Australia exceed \$10,000 in total value.

Export incentives. The Commonwealth Government provides financial incentives to encourage exports. Under the Export Market Development Grants Act 1974 a new scheme (Export Market Development Grants Scheme) was introduced to operate for five years from 1 July 1974. The scheme administered by the Export Development Grants Board which is responsible to the Minister for Overseas Trade is designed to encourage exporters and potential exporters to seek out and develop overseas markets. The scheme covers exporters of primary products, industrial goods, services, know-how and industrial property rights, whether the exporter is an individual, partnership, company or marketing organisation.

The scheme operates by way of taxable grants, to a maximum of \$100,000 (and in certain circumstances to \$125,000), in relation to eligible expenditure incurred on overseas market research and development.

The Export Market Development Grants scheme replaces the previous Exports Incentive Grants and Market Development Allowance scheme.

Trade descriptions

The Commerce (Trade Descriptions) Act 1905, administered by the Bureau of Customs of the Department of Business and Consumer Affairs, gives power to require the application of a proper trade description to certain prescribed goods imported into or exported from Australia. Goods which must bear a prescribed trade description upon importation into Australia are specified in the Commerce (Imports) Regulations. As regards exports from Australia, marking requirements are prescribed in regulations issued under the Act and relating to specified export commodities.

Government authorities

Industries Assistance Commission

The Industries Assistance Commission is a statutory authority whose general purpose is to advise the Commonwealth Government on the assistance which should be given to domestic industries. This advice is given in public reports which are based on public inquiries into the industries concerned. The Commission formally came into existence on 1 January 1974, as a result of the passing of the *Industries Assistance Commission Act* 1973.

Industries in the primary, secondary or tertiary sectors can be referred to the Commission by the Government, and numerous different forms of assistance can be examined by the Commission. In addition, matters not directly involving assistance, such as the reduction of import duties for the purpose of international trade agreements, can be referred to the Commission. The Act requires the Industries Assistance Commission to report annually to the Government on the operation of the Commission and on the general structure of industry assistance in Australia and its effect on the economy.

There are certain matters which the Minister is required to refer to the Commission for inquiry and report, before action is taken by the Government. These are, basically, proposed variations in the long-term assistance afforded industries in the primary or secondary sectors of the economy. 'Long-term assistance' in this context means assistance which is provided by means of tariffs or other restrictions on imports; or financial assistance which extends over a period of two years or more. The Commission itself has the power to initiate inquiries into those industries whose assistance has not been reviewed for at least ten years, in the case of industries assisted by means of duties on imports, or at least six years in the case of industries assisted by other means.

The Act states that the Commission shall consist of from five to nine Commissioners, appointed by the Governor-General for renewable terms of up to five years. It provides also for the appointment of Associate Commissioners, either for the purpose of particular inquiries or, like the Commissioners, for renewable terms of up to five years. The Commissioners are supported by an office which is staffed by members of the Commonwealth Public Service.

The Commission is required to hold public hearings during the course of its inquiries into individual industries. These hearings, which are advertised widely throughout Australia, are open to the public.

Temporary Assistance Authority

The Industries Assistance Commission Act 1973 provided for the creation of a Temporary Assistance Authority comprising not more than three persons. The function of the Temporary Assistance Authority is to inquire into and report on the need for urgent action to protect particular industries against import competition. This action can take the form of temporary duties or restrictions on imports. The Temporary Assistance Authority is required to report to the Minister within thirty days of being asked to undertake an inquiry. However, before taking action on the Authority's report the Minister is required first to refer the question of any permanent change in protection against imports to the Industries Assistance Commission for inquiry and report. Temporary protection recommended by the Authority may operate for a period of up to three months after the date of receipt of the final report by the Industries Assistance Commission on the goods concerned.

Trade Agreements

Multilateral—General Agreement on Tariffs and Trade

The General Agreement on Tariffs and Trade (GATT), which came into force on 1 January 1948, is a multilateral trade treaty designed to facilitate trading relations between participating countries by reducing tariff and other barriers to the free interchange of goods. The Agreement provides a framework within which negotiations can be held to reduce barriers to trade, and a structure for embodying the results of such negotiations in a legal instrument. Features of the Agreement are the schedules of tariff concessions participating countries have negotiated with each other, the application of most-favoured-nation tariff treatment among the participants, the avoidance of other trade discrimination, and a code of agreed commercial policy rules for international trading. Each participating country retains the right; (a) to impose new or increased duties for protective purposes, except in respect of particular products where rates of duty have been bound against increase in negotiations under the Agreement; (b) by negotiation to modify or withdraw concessions formerly agreed; (c) to impose import restrictions to protect the balance of payments; (d) to take emergency action where any industry is endangered by reason of any obligation incurred under the Agreement.

There have been six main tariff negotiations under the provisions of the Agreement, and a number of smaller scale negotiations preceding the accession of individual countries. As a result the tariff rates for a great many items entering into world commerce have been reduced and/or bound against increase. Australia has obtained tariff concessions from individual countries on a number of its principal or potential exports to them, as a result both of direct negotiation by Australia and of negotiation by other countries. In the latter case the benefits occurred through the operation under the Agreement of the most-favoured-nation principle. The sixth series of trade negotiations, the Kennedy Round, was based on a plan for linear tariff cuts by industrial countries on all industrial products, with a minimum of exceptions, and on the reduction of non-tariff barriers to trade and the creation of acceptable conditions of access to world markets for agricultural products. It concluded in June 1967 after three years of negotiations. Concessions were negotiated on trade valued at over \$36,000 million. The average reductions in tariffs on industrial goods was roughly one-third. while in agriculture the most important item was the agreement reached on the basis for a new world grains arrangement. (See the chapter Rural Industry.) Overall results were substantial, but were unevenly spread in that efforts to reduce trade barriers were very much more successful for manufactures than for primary products. In the post-Kennedy Round period, therefore, Australia placed particular emphasis on the work of the Committee on Agriculture, created in November 1967, to examine the problems in the agricultural sector.

An Anti-Dumping Code, negotiated during the Kennedy Round, came into force on 1 July 1968. The Code interprets the provisions of Article VI of the GATT and lays down rules on the determination, investigation and counter-action of injury caused by the dumping of goods on world markets. The rules aim to ensure the greatest possible uniformity of practice by signatory governments. Code signatories enact national legislation to give effect to the international agreement and this legislation embraces the provisions and wording of the Code, though to varying extents depending on the particular country. Australia acceded to the Code in November 1975.

A new round of multilateral trade negotiations (the seventh) was inaugurated at Tokyo in September 1973. Some 92 countries, members and non-members of GATT are participating in the negotiations which are scheduled to conclude in 1977. In a Declaration adopted at the Tokyo conference it was agreed that the principal areas of negotiation should be the reduction of tariff and non-tariff barriers (e.g. import restrictions, export restraints, minimum price regulations and subsidies) to trade in agricultural and industrial products; and safeguard measures against disruption of domestic industries by imports. The problems of developing countries are to be given special treatment. Australia is actively participating in all stages of the negotiations.

Up to the end of 1975 the contracting parties had held thirty-one sessions, nearly all in Geneva, to deal with matters arising from the administration of the Agreement. As a general rule the contracting parties meet once a year, although in a few instances they have met twice. In 1960 a Council of Representatives was established to undertake work, both of an urgent and of a routine character, between the regular sessions of the contracting parties. Some of the provisions of the Agreement were revised in 1954 and 1955. The revised Agreement contains tighter provisions on non-tariff barriers to trade, and allows more freedom for countries to revise individual tariff items which had been bound against an increase in tariff negotiations under the Agreement.

Since GATT has not been accepted definitively, the Agreement is at present being applied provisionally pursuant to a Protocol of Provisional Application. On 1 January 1976, eighty-three countries were full contracting parties to the Agreement, three had acceded provisionally, and nineteen applied the Agreement on a de facto basis. These 105 countries account for around 85 per cent of world trade.

Increasing attention has been focused in GATT on specific trade and development problems of developing countries, and in February 1965 a new Part IV of GATT, aimed at helping developing countries solve these problems, was introduced on a *de facto* basis. It entered legally into force in June 1966. The new Part IV embodies commitments to individual and joint action by contracting parties, aimed at ensuring that the developing countries can increasingly find the means to raise standards of living and promote rapid economic development through participating in international trade and achieving sustained growth of their export earnings.

Arising from the commitments entered into under Part IV of GATT and proposals emanating from the United Nations Conference on Trade and Development (UNCTAD), Australia introduced a system of tariff preferences for developing countries in 1966. The aim of the system was to help developing countries to export products to Australia in cases where their industries were not fully competitive. Australia's initiative in this field required a waiver of the GATT "no new preference' rule. All other developed counties have since introduced some form of "Generalised System of Preferences" (GSP) for developing countries. A GATT waiver was provided to enable these systems to be introduced. On 1 January 1974 Australia modified and expanded its system of preferences so that it came under the GATT waiver for the GSP. The system now includes all manufactured, semimanufactured and processed primary products except for products subject to revenue duties and those where developing countries are already competitive. An initial margin of preference, 10 percentage points below the general tariff rate, is provided. It is proposed to regularly review the margin of preference with a view to further reducing the rate of duty on imports from developing countries until imports are competitive. Some forty products receive preference only in respect of pre-determined quantities or values, i.e. quotas. The system is non-reciprocal (in that Australia seeks nothing in return) and is subject to international supervision through the GATT. It also contains safeguards for Australian industry whereby preferences on individual products can be modified or withdrawn if serious injury is occurring or threatened.

A four-year Arrangement Regarding International Trade in Textiles was negotiated under the auspices of GATT toward the end of 1973 and came into force on 1 January 1974. The Arrangement succeeds the Long Term Arrangement Regarding International Trade in Cotton Textiles which operated from 1962 to 1973. World trade in textiles has for many years been characterised by numerous discriminatory restrictive import measures designed to avoid market disruption from low-cost imports. The Textiles Arrangement aims to avoid situations of market disruption and to lead to the gradual liberalisation of trade in textiles. A surveillance body has been established under the Arrangement to review import restraints and to make recommendations where it considers the restraints to be inconsistent with the Arrangement. Australia acceded to the Arrangement in April 1974.

Bilateral agreements

Britain. The original United Kingdom/Australia Trade Agreement (Ottawa Agreement) came into effect on 20 August 1932. The provisions and history of the Agreement were published in Year Book No. 43, page 329. The latest Agreement, the United Kingdom/Australia Trade Agreement

(U.K.A.T.A.) arose from the re-negotiation of the Ottawa Agreement to correct an imbalance in trade which had developed in Britain's favour. It came into effect on 9 November 1956 and superseded the Ottawa Agreement. (See also Year Book No. 51, page 495.)

Briefly, U.K.A.T.A. provided for duty-free access for most products and preferences on a range of Australian products imported into Britain, in return for commitments with regard to the setting of tariff levels and preferential tariff treatment for British goods imported into Australia.

Following British entry into the European Economic Commity U.K.A.T.A. was terminated on 31 January 1973.

Canada. The 1960 Canada/Australia Trade Agreement provides not only for each side to give the other preferences on specific goods but also for the exchange of preferences in each country's tariff derived from the preferential agreements that each had with Britain. The termination of these agreements with Britain created a need for Canada and Australia to review their own preferential trading arrangements. Each country was at the same time experiencing a growing need for greater flexibility in tariff making. An Exchange of Letters governing the future operation of the 1960 Agreement was completed between Canada and Australia on 25 October 1973. The Exchange provides for a continuation of the tariff preférences exchanged under the 1960 Agreement, but on a more flexible basis, and also modifies certain other provisions of the 1960 Agreement, particularly those relating to indirect shipment of goods and to anti-dumping procedures. In general, understandings included in the Exchange remain in force for an initial period of one year and may thereafter be terminated upon 30 days notice. The Agreement itself continues subject to six months' notice.

New Zealand. The New Zealand/Australia Free Trade Agreement came into force on 1 January 1966 subject to a minimum non-termination period of ten years. The Agreement provides for free trade in certain scheduled goods. Provision is made for the progressive addition of items to the schedule. The provisions of the 1933 Trade Agreement between Australia and New Zealand continue in force as part of the Free Trade Agreement, except as superseded or modified by it.

Under the 1933 Agreement each country accorded British Preferential tariff treatment to the other's goods with certain exceptions.

Following the termination in January 1973 of the Trade Agreements which they had with Britain, Australia and New Zealand entered into an arrangement on 7 May 1973 to guarantee tariff preference in each other's market. The agreement was extended from 1 January 1976 for a further ten years after which either party may call for its termination.

The Agreement provides for Australia to maintain a minimum margin of 15 per cent for New Zealand goods and/or New Zealand to maintain a minimum margin of 10 per cent for Australian goods in cases where the tariff is protective. In the case of a non-protective item a minimum margin of 5 per cent is to be maintained. The Agreement also provides that neither country will raise tariffs against the other beyond the levels of 31 January 1973 unless there are protective reasons or revenue considerations.

Papua New Guinea. A Memorandum of Understanding Relating to Interim Trade and Commercial Arrangements between Australia and Papua New Guinea was signed on 20 December 1973. The Memorandum of Understanding provides that Papua New Guinea will continue to receive preferential treatment in the Australian tariff and that Australia will receive most-favoured-nation treatment in Papua New Guinea. It also provides for the encouragement and protection of Australian investment in Papua New Guinea and for Australia to provide assistance to Papua New Guinea in trade promotion and training in the trade policy and promotion area. The Memorandum of Understanding will operate until a long term trade agreement is negotiated between Australia and Papua New Guinea.

Malaysia. A trade agreement with the Tederation of Malaya came into force in August 1958. Under the Agreement Malaya undertook to accord to Australia preferences on certain specified goods, to extend to Australia any other preferences in the Malaysian tariff and to protect Australian wheat and flour against dumped or subsidised competition. Australia undertook to accord preferences to Malaya on certain specified goods and to protect Malaysian tin and rubber against dumped or subsidised competition, guaranteed free entry for natural rubber so long as the Papua New Guinea crop was absorbed, and assured the Federation that natural rubber would not be at a disadvantage compared with synthetic rubber in respect of tariff or import licensing treatment. In February 1975 an Exchange of Letters was signed which placed the preferential provisions of the Trade Agreement on a more flexible basis to allow tariff adjustments to be made by either country.

Democratic Republic of Viet Nam. The trade agreement with the Democratic Republic of Viet Nam was signed on 26 November 1974. The agreement provides for the exchange of most-favoured treatment and for the facilitation of trade. It also expresses support for the principle of long term commercial contracts and includes indicative lists of goods each country is interested in exporting to the other.

Indonesia. A trade agreement between Indonesia and Australia came into force on 1 July 1959. This agreement was re-negotiated in 1972. The new agreement, signed on 14 November 1972, is a most-favoured-nation agreement which establishes the GATT principles as the basis governing the conduct of bilateral trade. The agreement expresses support for international commodity agreements, encouragement of Australian investment in Indonesia and activities by Australian consultants and contractors. Other provisions refer to Australian support for trade initiatives in the Association of South East Asian Nations (ASEAN) and to consultation on shipping matters.

Iran. The trade agreement with Iran was signed in Canberra on 25 September 1974. The agreement provides for both countries to take appropriate measures to facilitate, strengthen and diversify trade and to encourage and facilitate industrial and technical co-operation and trade promotion activities. It also expresses the support of the two governments for the conclusion of long-term commercial contracts. The agreement establishes a committee of representatives to meet annually to review the implementation and further the objectives of the agreement.

Japan. An Agreement on Commerce between Australia and Japan was signed on 6 July 1957, and formally ratified on 4 December 1957. It was provided that the Agreement would remain in force until 5 July 1960, and thereafter unless prior notice of termination should be given by either Government. The agreement provides that each country shall extend most-favoured-nation treatment to the other in respect of customs duties and similar charges, and import and export licensing. Japan is not entitled to claim the benefit of preferences accorded by Australia to Commonwealth countries and dependent territories. Japan also gave certain specific commitments on some important Australian export commodities.

Following a review of the agreement, a Protocol of Amendment was signed on 5 August 1963 and formally ratified on 27 May 1964. Under the Protocol Australia agreed to withdraw action against Japan under Article XXXV of the General Agreement on Tariffs and Trade and thus a full GATT relationship was established between the two countries.

The specific undertakings agreed in 1957 lapsed and the following commitments were entered into.

Japan has:

- (a) undertaken not to accord less favourable import treatment (apart from tariff) for raw wool than for raw cotton,
- (b) stated that it has no present intention of imposing a duty on wool,
- (c) undertaken to continue imports of Australian soft wheat at a stabilised level, and to purchase Australian hard wheat* when necessary requirements are met,
- (d) stated that it will endeavour to expand opportunities for imports into Japan of Australian sugar, canned meat, leather, motor vehicles, butter, and cheese.

Australia has:

- (a) undertaken to consult Japan on temporary protection cases affecting Japanese products (in such consultations Japan will consider whether the need for temporary protection can be obviated by measures taken in Japan),
- (b) stated that equal opportunities of fair and equal competition are accorded to Japanese products in Australian Government purchases overseas.

The new agreement became effective for three years from the date of ratification (27 May 1964) and thereafter subject to three months notice of termination by either Government.

China (excl. Taiwan Province). The Australia-China Trade Agreement was signed in Canberra on 24 July 1973. The agreement provides for reciprocal most-favoured-nation treatment, while recognising existing preferences. It expresses support for the conclusion of bilateral commercial long-term commodity contracts, encourages trade promotional activities in both countries and established a Joint Trade Committee to examine the implementation of the agreement and to explore measures aimed at the expansion of mutually beneficial trade.

Philippines. The trade agreement with the Philippines signed in 1965, has been re-negotiated and a revised agreement was signed in Manila on 25 June 1975. It provides for reciprocal most-favoured-nation treatment and expresses support for international commodity agreements and for the conclusion of long-term commercial contracts. The agreement also provides for encouragement and facilitation of Australian investment in the Philippines and of industrial and technical co-operation. Other provisions refer to Australian support trade initiatives in the Association of South East Asian Nations (ASEAN) and establish a Joint Commission between the two countries to meet annually to further the objectives of the agreement.

^{* &#}x27;Soft' wheat is fair average quality wheat; 'hard' wheat is premium grade wheat similar to that grown in North America.

Republic of Korea. A Trade Agreement between the Republic of Korea and Australia was signed on 21 September, 1965. This Agreement was re-negotiated in 1975. The new Agreement, signed on 17 June 1975, provides for reciprocal most-favoured-nation treatment and expresses support for international commodity agreements and for the conclusion of long-term commercial contracts. The Agreement also provides for the encouragement of industrial and technical co-operation and for the encouragement of trade promotional activities in both countries. A Joint Trade Committee was also established under the agreement to meet annually to advance the objectives of the agreement.

U.S.S.R. Australia signed a trade agreement with the U.S.S.R. on 15 October 1965 and an additional agreement on the Development of Trade and Economic Relations on 16 March 1973. The 1965 Agreement provides for the exchange of most-favoured-nation treatment. The 1973 Agreement indicates commodities of export interest to each country respectively, and established a mixed commission of flexible composition to discuss trade problems and explore means for the expansion of trade and economic co-operation.

German Democratic Republic. The trade agreement with the German Democratic Republic was signed on 28 February 1974. It provides for the exchange of most-favoured-nation treatment, the encouragement and facilitation of trade and of economic, industrial and technical co-operation. It includes indicative lists of goods each country is interested in exporting to the other. The agreement also established a mixed commission to review the state of trade and discuss measures for its expansion.

Czechoslovakia. An agreement on trade relations was signed with Czechoslovakia on 16 May 1972. This confirmed the exchange of most-favoured-nation treatment as contracting parties to the GATT and established a Joint Trade Committee to discuss trade problems and examine prospects for the growth of trade between the two countries.

Poland, Bulgaria, Romania, Hungary and Yugoslavia. Australia has signed trade agreements with Poland (20 June 1966), Bulgaria (22 June 1966), Romania (18 May 1967), Hungary (5 December 1967) and Yugoslavia (21 July 1970). These agreements provide for the exchange of most-favoured-nation treatment; for payments to be in convertible currency, and for consultations on trade matters to be held at the request of either Government.

Trade services

Trade Commissioner Service

The stimulation of interest abroad in Australia's exports is an important government activity in which the Australian Trade Commissioner Service plays a prominent part. A brief account of the establishment and growth of the Trade Commissioner Service before the 1939–45 War is available in Year Book No. 51, page 496. Since the War the service has increased steadily. By early 1976 there was an establishment of 173 Trade Commissioners and Assistant Trade Commissioners in Australia and in 60 posts in 46 countries.

Trade Commissioners are responsible for commercial intelligence in their territories. Particular facilities provided for Australian exporters and export organisations include: surveys of market prospects; advice on selling and advertising methods; arranging introductions with buyers and agents; providing reports on the standing of overseas firms; advice and assistance to business visitors; helping to organise and carry through trade missions, trade displays, newspaper supplements, and other promotion and publicity media; providing information on import duties, import licensing, economic conditions, quarantine and sanitary requirements, and other factors affecting the entry and sale of goods; helping to attract desirable investment.

In some countries Trade Commissioners also participate in inter-governmental negotiations in the economic and commercial fields. In certain countries where there is no diplomatic or consular mission Trade Commissioners are called upon to act as the Australian representative.

Trade Commissioners, Assistant Trade Commissioners and Trainee Trade Commissioners are drawn from both private enterprise and the public service. Applications for entry are invited periodically by public advertisement. Recruitment is generally at the Trainee Trade Commissioner and Assistant Trade Commissioner level and officers are promoted to higher grades or to Trade Commissioner as experience and performance warrant. In the majority of posts the Trade Commissioner is supported by an Assistant Trade Commissioner and, in some cases, also by another Trade Commissioner.

The Trade Commissioner Service is administered by the Department of Overseas Trade (as distinct from the diplomatic and consular services administered by the Department of Foreign Affairs), but in countries where there is an Australian diplomatic or consular mission it is the prac-

tice for Trade Commissioners to be attached to the mission and to hold an appropriate diplomatic or consular rank (Minister Commercial, Commercial Counsellor, Commercial Secretary or Commercial Attache).

The overseas trade representation is shown in the chapter International Relations.

Trade Missions

Since 1954 the Commonwealth Government has sent trade missions abroad as part of its trade promotion program. The experience acquired has indicated the need for flexibility in techniques to suit particular products or markets. At present the following types of trade missions are in use.

Survey missions. These are organised to obtain precise knowledge about the export trade potential for specific products in one or more overseas markets. Such methods are used to explore export prospects in new or developing areas where commercial intelligence is not readily available or where a complex industry is involved and the industry requires special export knowledge.

Specialised and general trade missions. Arrangements are made for specific industries or groups of firms representing a number of industries to participate in a planned selling campaign in overseas markets with known sales potential. The mission visits the market, publicises its products and negotiates sales.

Up to the end of December 1975 Australia has sent overseas 110 trade and survey missions and 5 trade ships.

Trade displays, fairs, exhibitions and store promotions

For many years Australia has participated in numerous major trade fairs, exhibitions and displays in Africa, Asia, Europe, the Americas and the Pacific Area.

Initially the emphasis was on participation in general trade fairs directed at the public and the general commercial community. With the development of export promotion techniques and the greater diversity of goods available for export, greater emphasis is now being placed on individual Australian trade displays and participation in specialised trade shows directed almost entirely at the business community. In addition, display rooms in Trade Commissioner offices are currently in use in Singapore, Kuala Lumpur, Manila, Hong Kong, Jakarta and Port Moresby.

Market assistance

The Commonwealth Government established a Market Assistance Section in the Department of Overseas Trade in January 1974 to advise and assist developing countries and countries with centrally planned economies in the marketing of their products in Australia. The section, which is located in Canberra, is supported by two experienced Australian Trade Commissioners, one located in Sydney and the other in Melbourne, to maintain contact with the commercial sector and provide direct practical assistance.

Export of consulting services

Australian professional consultants have been increasingly successful in obtaining overseas commissions and are making a significant contribution to Australia's foreign exchange earnings.

The consultants are representative of a wide range of disciplines, including engineering, architecture, agriculture, mining, management, surveying, quantity surveying and urban and regional planning.

Most opportunities for Australian professional consultants arise through development projects financed by international aid and lending organisations such as The World Bank Group (IBRD, IDA and IFC), the Asian Development Bank, the United Nations Development Program and its executing agencies.

However, increasing opportunities are being developed successfully by Australian consultants in the Middle East, funds for which are provided by O.P.E.C. Australian consultants are also receiving commissions under Australia's External Aid Programs and from the private sector, particularly in South-East Asia.

Consulting Services Feasibility Study Fund

The above fund was established in 1973 to finance feasibility studies in developing countries which would be carried out by Australian professional consultants in a wide range of disciplines.

Only those studies officially requested and included in country development plans will be considered by the interdepartmental committee which advises the Minister for Overseas Trade as to which studies might be undertaken and the consulting firm which should be commissioned to carry them out.

The objective of the fund is to assist the promotion of the export of Australian consulting services.

Construction contracts overseas

The Australian Overseas Construction Council, which was formed by the Master Builders' Federation of Australia and the Australian Federation of Construction Contractors, assists construction contractors to win contracts overseas. It has close liaison with the Department of Overseas Trade, which provides information on construction opportunities abroad.

Australian construction contractors are active in the South-East Asian market and are also operating in the Pacific Area. There is also developing interest in opportunities in the Middle East.

Contracts being won are financed not only by the private sector but also those financed by international lending institutions.

Export Finance and Insurance Corporation

The Export Finance and Insurance Corporation was established by the Commonwealth Government in 1975 to provide Australian exporters with a specialised range of insurance guarantee and finance facilities not normally available from commercial sources. E.F.I.C. took over the functions of the Export Payments Insurance Corporation which had been operating since 1956.

The main risks of loss against which the Corporation insures are the 'commercial' risks of insolvency or protracted default of the buyer and 'political' risks. The latter include exchange transfer difficulties; the imposition of Government regulations which prevent the import of the goods into the buyer's country; war, revolution or civil disturbance in the buyer's country. For most 'political' risks insurance cover is available to a maximum of 90 per cent of the amount of loss in the preshipment period and a maximum of 95 per cent in the post-shipment period. The rate of cover for 'commercial' risks is fixed at 90 per cent.

Several important additions to the Corporation's facilities have been made since its inception. In 1964 the Corporation was authorised to issue guarantees of payment to commercial lending institutions on money raised for the purpose of financing exports. A further facility, buyer credit, under which the Corporation provides its guarantee in respect of funds made available by lending institutions direct to the overseas buyer was added in 1971. At the same time, re-insurance facilities were introduced and the Corporation is now able to enter into re-insurance agreements with its overseas counterpart institutions on export contracts with a substantial foreign content. The establishment of F.F.I.C. in 1975 introduced an export finance facility to the range of facilities available to exporters. The finance facility is designed to assist Australian exporters of capital goods and associated services by providing export finance on internationally competitive terms.

The Corporation may submit to the Government for consideration in the national interest applications for payments insurance, guarantees of finance which are commercially unacceptable to the Corporation. In considering such applications the Government takes account of both political and economic factors.

The majority of the Corporation's business relates to payments insurance for exports sold on short or medium term supplier credit (i.e. insured credit being extended to the overseas buyer by the exporter with the financial support of private lending institutions). At 30 June 1976 the Corporation had 1,015 policies current on its commercial account (i.e. not including Government business) with a face value of \$1,163 million. The Corporation has issued policies covering exports to over 150 countries and has insured a wide range of Australian exports. Since the introduction of its finance facility the Corporation has provided concessional finance in support of successful contracts totalling \$26.5 million.

In addition to providing the above facilities, the Corporation insures eligible Australian investments in overseas countries against the main non-commercial risks associated with investing overseas e.g. expropriation, exchange transfer difficulties, and war damage. For an investment to be eligible it must confer benefits on both Australia and the host country. At 30 June 1976, 57 investments mainly in South-East Asia had been insured. The face value of these insurance policies was \$81.7 million.

A Board, composed of representatives of a wide range of exporting interests and service industries and of Government and including two full-time officers of the Corporation, controls and directs the operations of E.F.I.C. The Board meets regularly and members are appointed for a term not exceeding three years.

Collection and presentation of statistics

Basic documents and scope of overseas trade statistics

Overseas trade statistics are compiled by the Australian Bureau of Statistics from copies of export and import entries submitted by exporters and importers or their agents to the Bureau of Customs as required by the Customs Act. The statistics are not confined to goods which are the

subject of a commercial transaction and all goods moving into or out of Australia are recorded, except for those exclusions listed below. Among the items included are exports and imports on government account including some items of defence equipment, and outside packages (that is, the outside package or outside covering of the goods). Outside packages are included as a separate item in the tabulation of imports but in exports the value recorded for each item includes the value of the outside package.

The following are excluded from overseas trade statistics:

- (a) Direct transit trade, i.e. goods transhipped in Australian ports in their movement from and to other countries.
- (b) Bunkers and stores supplied to vessels and aircraft. (However, a separate 'Ships' Stores' collection is made and details are shown on page 346.)
- (c) Those migrants' and passengers' effects for which a customs entry is not received.
- (d) Those parcel post exports and imports of small value for which customs entries are not received.
- (e) Certain materials for intergovernmental defence projects for which customs entries are not required.
- (f) The value of ores and concentrates exported and imported includes the value of gold and/or silver content. These unseparated metals are thus excluded from gold and silver exported and imported as such.
- (g) Vessels and aircraft engaged in the transport of passengers or goods between Australia and other countries.
- (h) Vessels and aircraft purchased for use on overseas routes and any subsequent sales made of such vessels and aircraft.
- (i) Fish and other sea products landed abroad directly from the high seas by Australian vessels.

Areas applying

The area to which all overseas trade statistics issued by this Bureau apply is the whole of the Commonwealth of Australia, comprising the six States, the Northern Territory and the Australian Capital Territory. Non-contiguous territories under Australian administration are treated as outside countries. Trade transactions between Australia and those non-contiguous territories are part of the overseas trade of Australia and are published separately in Australia's overseas trade statistics.

Period covered by the statistics

Exports and imports are recorded statistically in the month in which the entries are passed by the Bureau of Customs. Normally this is within a few days of loading or discharge of cargo. Delay sometimes occur in the lodging of export entries and import entries may be cleared early using the Customs' check-to-arrive system.

Containerised goods

Containerised goods forwarded interstate for export through a container terminal are statistically recorded as being exported from the port of location of the Customs House at which the entry was lodged and not necessarily from the port of loading in Australia. For example, containerised goods for which entries were lodged at the Customs House, Port Adelaide, but forwarded interstate to Port Melbourne for export would be recorded statistically as exports from Port Adelaide, hence from South Australia and not Victoria. The same method of recording applies to imports of containerised goods forwarded interstate following discharge from an overseas vessel.

Valuation

Commencing with the Bureau publications issued at the close of 1965 values in overseas trade statistics have been expressed in \$A. Prior to this values were expressed in £ (Aust.) except for imports into Australia which, up until 15 November 1947, were recorded in British currency values. Full explanatory notes on the methods of recording import values before and since 15 November 1947 were included in Year Book No. 37, page 396.

All values in overseas trade statistics are determined on a 'free on board (f.o.b.) port of shipment' basis. This means that all charges (in particular the cost of freight and insurance) incurred after the goods have been exported from the port of shipment are excluded. Only transport and service charges incurred, or usually incurred, prior to export are included in the determination of trade values.

The procedure adopted to value exports and imports is as follows:

Exports. The recorded value of goods exported includes the cost of outside packages and has been determined, since July 1937, as follows:

- (a) Goods sold to overseas buyers before export are valued at the Australian f.o.b. port of shipment equivalent of the actual price at which the goods were sold.
- (b) Goods shipped on consignment are valued at the Australian f.o.b. port of shipment equivalent of the price paid for similar goods of Australian origin in the principal markets of the country to which they are despatched for sale.

An account of the bases of valuation in operation prior to July 1937 is given on page 396 of Year Book No. 37.

Imports. The recorded value of goods imported is the amount on which duty is payable or would be payable if the duty were ad valorem. Value for duty of any goods shall be the sum of (a) and (b) below, i.e.:

- (a) the higher of-
 - (i) the actual money price paid or to be paid for the goods by the Australian importer
 plus any special deduction ('special deduction' is defined as any discount or other
 deduction allowed to the Australian importer which would not ordinarily have been
 allowed to any and every purchaser at the date of exportation of an equal quantity of
 identically similar goods); or
 - (ii) the current domestic value of the goods ('current domestic value' is defined as the amount for which the seller of the goods to the purchaser in Australia is selling or would be prepared to sell for cash, at the date of exportation of those goods, the same quantity of identically similar goods to any and every purchaser in the country of export for consumption in that country);

and

- (b) all charges payable or ordinarily payable for placing the goods free on board at the port of export.
- In the case of goods consigned for sale in Australia the 'value for duty' shall be the amount which would be the value for duty if the goods were, at the date of exportation, sold to an Australian importer instead of being consigned for sale in Australia.
- Leasing arrangements. The recorded value of goods exported, or imported under leasing arrangements is defined as the free on board value, i.e. not the value of the lease receipts or payment. However, for balance of payments purposes, large items of equipment under lease are normally excluded from export and import figures and, therefore, from the balance of trade since no change of ownership has occurred.

Quantity data

Where quantities are shown they are generally expressed in terms of the normal unit of quantity appropriate to the industry.

Statistical concepts of trade

Trade systems. There are two generally accepted systems of recording overseas trade statistics defined by the Statistical Office of the United Nations, that is 'special trade' and 'general trade'. The definitions for these are shown in Year Book No. 57 and earlier issues. This terminology is not usually employed in connection with Australian overseas trade statistics and the terms defined below are in customary use.

Exports of Australian origin are goods, materials or articles which have been produced, manufactured or partly manufactured in Australia, except goods which were originally imported and have undergone only repair or minor operations which leave them essentially unchanged.

Re-exports are goods, materials or articles originally imported which are exported either in the same condition in which they were imported or after undergoing repair or minor operations which leave them essentially unchanged. 'Minor operations' include blending, packaging, bottling, cleaning, sorting, husking and shelling.

Total exports are the aggregate of exports of Australian origin and re-exports.

Import clearances are imported goods cleared through Customs direct for domestic consumption plus goods cleared from bonded warehouses for domestic consumption (these are comparable to 'special trade').

Imports are the combined total of goods imported direct for domestic consumption and imports into bonded warehouses (these are comparable to 'general trade').

Merchandise and non-merchandise trade. Total trade is divided into merchandise and non-merchandise trade in accordance with international standards recommended by the United Nations. Merchandise trade is the equivalent of total exports or imports less certain items specified as non-merchandise. A complete description of the commodities included is contained in the Australian Export and Import Commodity Classifications (8.3, 8.6) published by the Australian Bureau of Statistics.

Balance of trade and balance of payments

The balance of trade is derived by comparing statistics of exports on a balance of payments basis with statistics of imports on that basis. Therefore the excess of the value of exports or imports as shown on the basis of total trade in the table on page 333 does not on these bases represent the balance of trade. Statistics of the balance of trade for balance of payments purposes are derived by making certain adjustments, relating to valuation, timing and coverage to statistics of merchandise exports and imports. Information on these statistics will be found in the section relating to the balance of payments, page 356.

Country of consignment or origin

'Country of consignment' referred to in export tables means the country to which goods were consigned at the time of export. Where the country of consignment is not determined at the time of export the goods are recorded as exported 'For orders'. 'Country of origin' referred to in import tables means the country of production as determined for tariff purposes. Classification of imports according to country of shipment was discontinued after the year 1920-21. A brief account of the dual system of import classification by country operating prior to the year 1921-22 is given on page 500 of Year Book No. 51.

Commodity classifications

Exports and imports are classified according to the Australian Export and Import Commodity Classifications. These classifications are based on the Standard International Trade Classification, Revised (S.I.T.C.—R.), which is closely related to the Brussels Tariff Nomenclature used in the Australian Customs Tariff.

Pre-federation records

In the years preceding federation each State recorded its trade independently and in so doing did not distinguish other Australian States from external countries. The aggregation of the records of the several States is necessarily the only available means of ascertaining the trade of Australia for comparison with later years, but the results obtained are subject to error, since past records of values and the direction of exports and imports were not on uniform lines. Exports and imports for years prior to federation may be found in early issues of the Year Book, particularly Year Book No. 2. On the introduction of the Customs Act 1901 the methods of recording values were made uniform throughout the States.

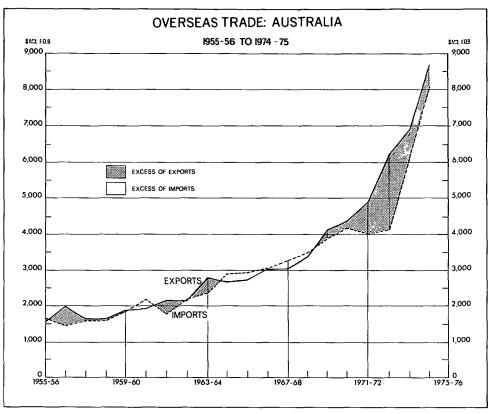


PLATE 35

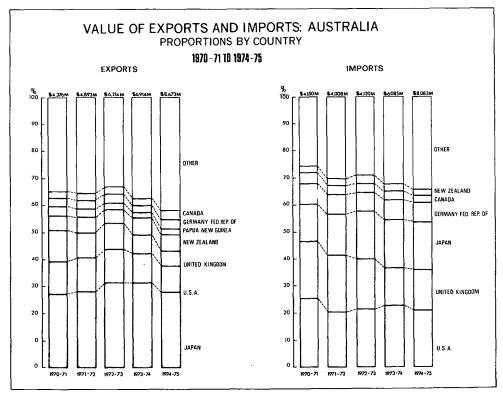


PLATE 36

Total overseas trade

The following table shows the total trade of Australia with overseas countries from 1901 to 1974-75. The period 1901 to 1970-71 has been divided into five-year periods, and the figures shown represent the annual averages for the periods specified. Figures for the individual years were published in earlier issues, but figures for imports in issues prior to No. 37 were expressed in British currency.

OVERSEAS TRADE: AUSTRALIA (f.o.b.)

| | | | | (1.0.0.) | | | |
|--------------------|--|--|---------|----------|----------------------------------|----------------------------|---------|
| | | | | | Excess of exports (+) or imports | Value per he of populat | |
| Period | | | Exports | Imports | (-) | Exports | Imports |
| Annual average— | | | \$m | \$m | \$m | s | S |
| 1901 to 1905 . | | | 102 | 71 | + 31 | 26.2 | 18.2 |
| 1906 to 1910 . | | | (a)139 | 94 | - ! - 45 | 32.6 | 22.0 |
| 1911 to 1915-16 . | | | 149 | 133 | + 16 | 30.8 | 27.6 |
| 1916-17 to 1920-21 | | | 230 | 183 | + 47 | 43.8 | 34.8 |
| 1921-22 to 1925-26 | | | 269 | 249 | + 20 | 45.8 | 42.2 |
| 1926-27 to 1930-31 | | | 263 | 239 | + 24 | 41.0 | 37.2 |
| 1931-32 to 1935-36 | | | 242 | 148 | + 94 | 36.2 | 22.2 |
| 1936-37 to 1940-41 | | | 315 | 247 | + 68 | 45.4 | 35.6 |
| 1941-42 to 1945-46 | | | 328 | 423 | - 95 | 44.8 | 58.2 |
| 1946-47 to 1950-51 | | | 1,143 | 899 | + 244 | 145.4 | 114.3 |
| 1951-52 to 1955-56 | | | 1,572 | 1,566 | + 6 | 176.4 | 175.6 |
| 1956-57 to 1960-61 | | | 1,811 | 1,729 | + 82 | 182.0 | 173.7 |
| 1961-62 to 1965-66 | | | 2,492 | 2,430 | + 62 | 224.8 | 218.6 |
| 1966-67 to 1970-71 | | | 3,591 | 3,562 | + 29 | 293.4 | 291.4 |
| Year- | | | , | • | | | |
| 1970-71 | | | 4,376 | 4,150 | + 226 | 343.7 | 326.0 |
| 1971-72 | | | 4,893 | 4,008 | + 885 | 377.8 | 309.3 |
| 1972–73 | | | 6,214 | 4,121 | +2,093 | 474.4 | 314.5 |
| 1973–74 | | | 6,914 | 6,085 | + 829 | 521.1 | 458.6 |
| 1974–75 | | | 8,673 | 8,083 | - - 590 | 643.8 | 600.1 |

⁽a) Prior to 1906, ships' stores were included in exports. For value of such goods loaded on overseas vessels and aircraft during each of the years 1972-73 to 1974-75, see page 346.

Plate 35 on page 332 shows the overseas trade of Australia from 1955-56 to 1974-75.

The following table shows particulars of merchandise and non-merchandise trade for recent years.

MERCHANDISE AND NON-MERCHANDISE TRADE: AUSTRALIA (\$'000 f.o.b.)

EXPORTS

| | | | Merchandise | | | Non-merchan | | | |
|---------|---------------------------------|--|-------------|---------|-------------------------------|-------------|--------|---------|-----------|
| Year | Australian produce Re-export | | Re-exports | Total | Australian produce Re-exports | | Total | Total | |
| 1970-71 | | | 4,119,518 | 123,117 | 4.242.635 | 81,428 | 51,694 | 133,122 | 4,375,757 |
| 1971-72 | | | 4,640,244 | 133,148 | 4,773,392 | 76,173 | 43,803 | 119,976 | 4,893,368 |
| 1972-73 | | | 5,879,066 | 193,449 | 6,072,514 | 82,359 | 58,830 | 141,190 | 6,213,704 |
| 1973-74 | | | 6,617,449 | 140,141 | 6,757,590 | 88,956 | 67,200 | 156,156 | 6,913,746 |
| 1974-75 | | | 8,289,605 | 197,978 | 8,487,583 | 114,782 | 70,398 | 185,180 | 8,672,762 |

| IMPORT | S |
|------------|---|
| | |

| Year | | Merchandise | Non- merchandise | Total |
|----------|--|-------------|---------------------|-----------|
| 1970-71. | | 4,098,560 | 51,468 | 4,150,028 |
| 1971-72. | | 3.954.775 | 53,590 | 4,008,365 |
| 1972-73. | | 4,071,911 | 48,816 | 4.120.727 |
| 1973-74 | | 6,027,091 | 57,913 | 6,085,004 |
| 1974-75 | | 7,963,908 | 119,191 | 8,083,099 |

Classified summary of Australian overseas trade

The following table shows exports and imports according to divisions of the Australian Export and Import Commodity Classifications (based on the Standard International Trade Classification, Revised).

EXPORTS AND IMPORTS: DIVISIONS OF THE AUSTRALIAN EXPORT AND IMPORT COMMODITY CLASSIFICATIONS (\$'000 f.o.b.)

| | | (\$'000 1 | | | | | |
|----------------------|---|----------------------|--|----------------------|----------------------------|---------------------|-------------------------|
| | | Exports | | | Imports | | |
| Division No. | Description | 1972-73 | 1973-74 | 1974-75 | 1972-73 | 1973–74 | 1974-7 |
| 00 | Live animals | 17,084 | 29,777 795,211 152,125 66,575 | 26,31 4 | 6,795 | 14,212 | 15,54 |
| 01 | Meat and meat preparations | 857,021 142,015 | 795,211 | 443,767 | 1,421 | 3,341 9,489 | 4,279 12,45 62,76 |
| 02 | Dairy products and eggs | 142,015 | 152,125 | 165,6 11 | 9,116 | 9,489 | 12,45 |
| 03 | Fish and fish preparations | 73,605 | 747.473 | 69,186 | 47,657 | 68,633 | 62,70 |
| 04 | Cereals and cereal preparations | 421,671 124,845 | 747,473 | 1,466,399 | 5,688 | 6,386 | 8,03 76,86 |
| 05 | Fruit and vegetables | 259,798 | 111,883 235,191 | 99,208 660,706 | 25,883 | 50,252 3,941 | 70,00 |
| 06 | Sugar, preparations, honey | 10,889 | 9,493 | 13,303 | 3,264 53,216 | 63,138 | 8,22 93,25 |
| 07 08 | Coffee, tea, cocoa, and spices. Feeding stuff for animals | 22,653 | 25,040 | 20,744 | 6,073 | 11,164 | 12,55 |
| 09 | Miscellaneous food preparations . | 4,831 | 6,602 | 5,018 | 3,885 | 6,223 | 8,51 |
| 11 | Beverages . | 11,493 | 13,009 | 15,010 | 24,674 | 32,073 | 33,01 |
| 12 | Tobacco and tobacco manufactures. | 3.673 | 4.045 | 4,128 | 27,566 | 32,863 | 41,54 |
| 21 | Hides, skins and fur skins, undressed | 192,227 | 4,045 150,574 | 104,197 | 24,674 27,566 1,538 | 2,461 | 2,41 |
| 22 | Oil seeds, oil nuts and oil kernels | 9,082 | 5,702 | 12,505 | 7,234 | 19,851 | 7,26 |
| 21 22 23 | Crude rubber (including synthetic | • | • | • | • | • | - |
| | and reclaimed) | 764 | 970 | 1,086 | 24,595 68,258 37,555 | 43,061 115,891 | 30,97 |
| 24 25 26 27 | Wood, timber and cork. | 6,741 | 8,256 512 | 9,192 560 | 68,258 | 115,891 | 85,28 |
| 25 | Pulp and waste paper | 380 | 512 | 560 | 37,555 | 46,291 | 70,99 |
| 26 | Textile fibres and their waste | 1,168,666 | 1,161,648 | 762,651 | 49,721 | 76,622 | 43,56 |
| 27 | Crude fertilisers and minerals (except | | | | | | |
| | coal, petroleum and precious stones) | 17,239 | 22,988 | 28,380 | 52,643 | 67,142 | 117,284 |
| 28 29 | Metalliterous ores and metal scrap. | 699,689 | 851,907 | 1,202,903 | 7,871 | 19,897 | 9,80 |
| 29 | Crude animal and vegetable ma- | 21.657 | 10 200 | 25.260 | | 22 725 | 22.20 |
| | terials, n.e.s. | 21,657 | 18,390 | 25,269 | 18,833 | 23,735 | 22,29 |
| 32 | Coal, coke, and briquettes | 294,616 | 352,301 | 672,690 | 485 | 584 376,688 | 1,85 |
| 33 34 | Petroleum and petroleum products. | 46,374 | 104,587 | 161,787 | 174,703 | 3/6,688 | 722,36 |
| 34 | Petroleum gases and other gaseous | (a) | (-) | (-) | 68 | 106 | 99 |
| 41 | hydrocarbons | (a) 29,497 | (a) 40,542 | 50,070 | | 105 | 578 |
| 41 42 | Animal oils and fats Fixed vegetable oils and fats | 211 | 1,698 | 2,465 | 301 10,745 | 477 24 322 | 36,82 |
| 3 | Animal and vegetable oils, fats and | 211 | 1,056 | 2,403 | 10,743 | 24,322 | 30,62. |
| +3 | waxes, processed | 890 | 2,646 | 3,275 | 2,066 | 3,249 | 5,870 |
| 51 | Chemical elements and compounds. | 181,123 | 229,494 | 352,147 | 143,325 | 212,609 | 302,69 |
| 52 | Mineral tar and crude chemicals from | 101,123 | 427,777 | 332,177 | 173,323 | 212,009 | 302,07. |
| ,2 | coal, petroleum and natural gas | 806 | 2,307 | 1,952 | 2,032 | 2,719 | 3,358 |
| 53 | Dyeing, tanning and colouring ma- | 000 | 2,507 | 1,752 | 2,052 | 2,717 | • 3,330 |
| | terials | 9,283 | 10,353 | 11,657 | 29,320 | 40,016 | 36,894 |
| 54 · | Medicinal and pharmaceutical pro- | 7,203 | 10,555 | 11,057 | 27,320 | 40,010 | 30,054 |
| | ducts | 25,994 | 31,075 | 32,631 | 65,012 | 75,377 | 105,837 |
| 55 | Essential oils and perfume materials; | , | , | 0-,001 | 00,0.2 | , | , |
| | toilet and cleansing preparations. | 11,780 | 14,846 | 18,460 | 18,344 | 25,213 | 30,694 |
| 56 | Fertilisers, manufactured | 1,611 | 1,929 | 2,789 | 6,099 | 6,540 | 13,105 |
| 57 | Explosives and pyrotechnic products | 2,616 | 3,121 | 3,056 | 4,271 | 5,040 | 6,982 |
| 58 | Plastic materials, regenerated cellu- | | | | | | |
| | lose and artificial resins | 10,725 | 21,320 | 27,404 | 105,161 | 145,211 | 188,07€ |
| 59 | Chemical materials, n.e.s. | 27,503 | 33,918 | 28,716 | 50,596 | 67,196 | 98,356 |
| 51 | Leather, leather manufactures, n.e.s. | | | | | | |
| | and dressed fur skins | 6,506 | 4,264 10,745 | 4,450 | 8,670 | 11,534 83,293 | 15,030 |
| | Rubber manufactures, n.e.s. | 8,826 | 10,745 | 7,744 | 56,547 | 83,293 | 124,187 |
| 53 | Wood and cork manufactures (ex- | 26 | 40 -0: | | 56,547 20,292 | | |
| | _ cluding furniture) | 26,557 | 43,624 | 50,149 | 20,292 | 35,963 | 37,783 |
| | Paper, paperboard and manufactures | 17,162 24,841 | 19,337 | 23,321 | 121,631 347,260 | 167,431 579,065 | 224,617 |
| 5 | Textile yarn, fabrics, made-up articles | 24,841 | 30,679 | 30,924 | 347,260 | 579,065 | 435,707 |
| 56 | Non-metallic mineral manufactures. | 26.002 | 20 141 | 40.065 | 101 116 | 133 /// | |
| 57 | n.e.s | 35,082 | 38,141 | 48,065 | 101,115 | 133,666 | 152,300 |
| | Iron and steel | 173,365 290,995 | 214,373 424,320 | 381,128 | 108,663 | 214,054 | 251,683 |
| 58 59 | Non-ferrous metals | 490,993 | 424,320 | 502,763 102,465 | 24,224 104,448 | 41,430 137,890 | 51,666 |
| | Manufactures of metal, n.e.s. | 62,210 139,786 | 66,630 | 102,403 | 104,448 | 13/,890 | 202,652 |
| 12 | Machinery, other than electric Electrical machinery and apparatus. | 62 700 | 148,220 | 235,659 | 686,798 | 888,060 | 1,357,827 |
| 12 13 | Transport equipment | 62,708 295,807 | 63,735 | 106,140 | 277,368 | 394,328 | 719,160 |
| | Transport equipment | 273,007 | 234,293 | 223,175 | 525,250 | 808,962 | 985,493 |
| • | _ lighting fixtures and fittings | 2,810 | 3,039 | 3,195 | 7,848 | 13,057 | 16 606 |
| 2 | Furniture | 1,800 | 1,881 | 2,528 | 7,848 8,640 | 18,942 | 16,505 24,413 |
| | Travel goods, handbags, etc. | 288 | 298 | 352 | 8,099 | 13,533 | 17,340 |
| | Clothing and accessories; articles of | 200 | 270 | 332 | 0,055 | 13,333 | 17,340 |
| • | knitted or crocheted fabric . | 11,754 | 11,153 | 11,440 | 63,481 | 122,424 | 188,826 |
| 5 | Footwear, gaiters and similar articles | 1,216 | 1,326 | 1,448 | 22,584 | 43,474 | 50,361 |
| | Professional, scientific and controlling | 1,210 | 1,320 | 5+ ++ , t | 22,304 | 73,414 | 30,301 |
| - ' | instruments: photographic and | | | | | | |
| | instruments; photographic and optical goods, watches and clocks | 35,124 | 39,360 | 47,547 | 138,141 | 192,474 | 245,779 |
| 9] | Manufactured articles, n.e.s. | 45,307 | 39,360 44,841 | 58,140 | 225,859 | 317,495 | |
| (A) (| Commodities and transactions not | 73,307 | 44,041 | 30,140 | 223,039 | 317,493 | 417,417 |
| (**) | classified according to kind(b) | 121,318 | 89,822 | 141,709 | 118,976 | 100 002 | 124 650 |
| | Total merchandise | 6,072,514 | 6,757,590 | 241,/U9 8 487 593 | | 108,002 | 124,650 |
| (D) 3 | | | | 8,487,583 | 4,071,911 | 6,027,091 | 7,963,908 |
| (B) 1 | Non-merchandise Total | 141,190 6,213,704 | 156,156 6,913,746 | 185,180 8,672,762 | 48,816 4,120,727 | 57,913 6,085,004 | 119,191 8,083,099 |
| | Total | | | | | | |

Exports, by industrial group

The following table is designed to show fluctuations in exports of Australian produce dissected according to the main industry of their origin, although any such classification is necessarily somewhat arbitrary.

EXPORTS OF AUSTRALIAN PRODUCE, BY INDUSTRIAL GROUP

| | Value (\$'000 |) f.o.b.) | | Australian p | of value of ex produce () (per cent) | ports of |
|----------------------------|---------------|-----------|-----------|--------------|--|----------|
| Industrial group | 1972-73 | 1973-74 | 1974-75 | 1972–73 | 1973–74 | 1974-75 |
| Agriculture, horticulture | re | | | | | |
| Unprocessed | 446,312 | 746,637 | 1,433,319 | 7.5 | 11.2 | 17.1 |
| Processed | , | 366,260 | 824,417 | 6.5 | 5.5 | 9.9 |
| Total | 831,315 | 1,112,895 | 2,257,736 | 14.0 | 16.7 | 27.0 |
| Pastoral— | | | | | | |
| Unprocessed | | 1,992,189 | 1,206,802 | 35.1 | 29.9 | 14.4 |
| Processed | , | 187,832 | 173,390 | 3.0 | 2.8 | 2.1 |
| Total | 2,258,733 | 2,180,021 | 1,380,192 | 38.1 | 32.7 | 16. : |
| Dairy and farmyard— | | | | | | |
| Unprocessed | 27,122 | 17,521 | 13,945 | 0.5 | 0.3 | 0.2 |
| Processed | 137,323 | 147,521 | 159,951 | 2.3 | 2.2 | 1.9 |
| Total | 164,445 | 165,042 | 173,896 | 2.8 | 2.5 | 2.1 |
| Mines and quarries (except | ı | | | | | |
| Unprocessed | 944,609 | 1,133,055 | 1,753,461 | 15.9 | 17.0 | 21.0 |
| Processed | 306,777 | 430,553 | 500,135 | 5.2 | 6.5 | 6.0 |
| Total | 1,251,386 | 1,563,608 | 2,253,596 | 21.1 | 23.4 | 26.9 |
| Fisheries— | | | | | | |
| Unprocessed | 67,711 | 62,307 | 65,282 | 1.1 | 0.9 | 0.8 |
| Processed | 7,797 | 6,634 | 6,049 | 0.1 | 0.1 | 0.1 |
| Total | 75,508 | 68,941 | 71,331 | 1.3 | 1.0 | 0.9 |
| Forestry— | | | | | | |
| Unprocessed | 469 | 1,265 | 1,739 | 0.0 | 0.0 | 0.0 |
| Processed | 8,670 | 9,793 | 10,346 | 0.1 | 0.1 | 0.1 |
| Total | 9,139 | 11,058 | 12,085 | 0.2 | 0.2 | 0.1 |
| Total primary produce— | _ | | | | | |
| Unprocessed | 3,568,117 | 3,952,975 | 4,474,548 | 60.1 | 59.2 | 53.5 |
| Processed | 1,022,409 | 1,148,593 | 1,674,288 | 17.2 | 17.2 | 20.0 |
| Total | 4,590,526 | 5,101,568 | 6,148,836 | 77.3 | 76.4 | 73.5 |
| Manufactures | 1,204,980 | 1,380,504 | 1,933,341 | 20.3 | 20.8 | 23.1 |
| Refined petroleum oils | 43,144 | 1,380,304 | 157,443 | 0.7 | 1.5 | 1.9 |
| Unclassified | 98,515 | 89,314 | 128,135 | 1.7 | 1.3 | 1.5 |
| Total Australian produce | • | | • | | | |
| (except gold) . | 5,937,165 | 6,672,203 | 8,367,756 | 100.0 | 100.0 | 100.0 |
| Re-exports (except gold) | 252,279 | 207,340 | 268,376 | | | |
| Gold exports | 24,260 | 34,203 | 36,631 | | | |
| Total | 6,213,704 | 6,913,746 | 8,672,762 | | | |

The items enumerated indicate how arbitrary is the line necessarily drawn between primary produce and manufactures in any classification of this kind. The value of processed primary products exported includes some element of value added by the simpler processes of manufacture, while the value shown for manufactures exported necessarily includes the value of raw materials (primary produce) used in those manufactures.

OVERSEAS TRANSACTIONS

Exports of principal articles of Australian produce

EXPORTS OF PRINCIPAL ARTICLES OF AUSTRALIAN PRODUCE

| Article Meat, fresh, chilled or frozen— Of bovine animals— Beef— Bone-in '000 k Boneless | | 1973-74 | 1974-75 | 1972-73 | 1973-74 | 1974-75 |
|--|----------------------|----------------------|----------------------|------------------|------------------|-------------------|
| Of bovine animals— Beef— Bone-in | | | | | | |
| Beef— Bone-in | | | | | | |
| Bone-in | | | | | | |
| Decileo | | | | | | |
| Donalecc | | 13,260 | 21,173 | 13,509 | 17,964 | 13,676 |
| | 542,830 | 460,953 | 386,491 | 609,449 | 592,619 | 302,105 |
| Other ,, | 27,533 | 19,106 | 8,588 | 29,916 | 25,551 | 6,949 |
| Of sheep, lambs and goats ,, | 190,186 | 90,092 | 102,394 | 119,664 | 80,783 | 65,426 |
| Meat, canned or bottled ,, | 23,140 | 22,612 | 15,340 | 17,161 | 25,507 | 18,548 |
| Sausage casings (natural) ,, | | | | 10,618 | 6,376 | 7,776 |
| Other meat (including poultry, game, rab- | | | | | | |
| bits) | | 400 100 | :: | 67,202 | 52,745 | 36,565 |
| Milk and cream '000 k | g 92,452 | 150,490 | 119,363 | 45,956 | 73,539 | 87.509 |
| Butter " | 75,463 | 56,467 | 32,619 | 61,986 | 41,880 | 33,833 |
| Cheese , , , , , , , , , , , , , , , , , , | 29,568 | 38,031 | 34,230 | 21,688 | 28,936 | 34.634 |
| Fish (including shell fish) fresh or pre- | | 1000 | | | | |
| served by cold process | 17,282 | 16,634 | 14,855 | 65,641 | 60,518 | 63,209 |
| Wheat tonnes | | 5,128,150 | 7,860,069 | 273 096 | 517,114 | 1,034,396 |
| Barley, unprepared ,, | 804,122 | 808,467 | 1,759,700 | 38,512 | 68,463 | 186,682 |
| Oats , , , | 114,534 | 80,655 | 267,271 | 5,016 | 13,582 | 19,768 |
| Flour (wheaten), plain white ,, | 156,807 | 129,040 | 236,716 | 12,055 | 20,196 | 48,993 |
| Fruit, dried— | | | | | | |
| Grapes | | | | 26,186 | 17,870 | 20,120 |
| All other | 2,917 | 1,777 | | 2,314 | 2,110 | 1,285 |
| Fruit, canned or bottled | ns 8,273 | 7,326 | 4,262 | 48,223 | 44,543 | 32,262 |
| Sugar, the produce of cane tonnes | 2,084,430 | | | 249,759 | 223,313 | 644,499 |
| Wine litres | 6,246,587 | 8,466,444 | 6,546,893 | 3,970 | 5,614 | 5,343 |
| Hides and skins— | 117.21 | 112.026 | | 77.010 | | 20 == 1 |
| Calf, cattle and horse '000 k | | | 119,857 | 77,810 | 55,298 | 39,771 |
| Sheep and lamb (excluding pieces) ,, | 123,772 | 72,726 | 74,212 | 109,397 | 91,539 | 61,664 |
| Timber, wood in the rough, shaped or | | 74.046 | 120 504 | ()(5 | 0.111 | 0.010 |
| simply worked | m 81,551 | 74,846 | 129,504 | 6,265 | 8,111 | 9,010 |
| Wool— | | 407.642 | 456 (00 | 1.064.300 | 1.000.000 | ((2.070 |
| Greasy | g 665,069 | 487,543 | 456,698 | 1,064,209 | 1,062,237 | 663,870 |
| Scoured or washed, carbonised, tops, | 20 011 | 25 116 | 45.050 | 66 250 | 04 227 | 90.613 |
| noils and waste ,, | 38,811 | 35,116 | 45,059 | 66,258 | 94,327 | 89,612 |
| Iron ore and concentrates (except roasted | ((202 020 | 70 200 224 | 06 216 070 | 439,138 | 498,663 | 70(404 |
| iron pyrites) tonnes | | 78,290,224 | | | | 706,404 |
| Copper ores and concentrates ,, | 164,254 | | | 34,463 | 57,324 19,445 | 39,755 |
| Lead ores and concentrates | 74,143 | 77,678 | 42,192 | 12,848 | | 13,223 |
| Zinc ores and concentrates | 300,773 1,324,422 | 426,178 1,488,390 | 403,822 1,397,930 | 22,322 63,178 | 45,631 73,703 | 58,872 127,814 |
| Titanium and zirconium concentrates . ,, | | 27,853,061 | | 291,894 | 348,397 | 660,707 |
| Coal .) ,, | 23,793,000 | 27,033,001 | 34,030,961 | 45,537 | 103,821 | |
| Petroleum and petroleum products . ,, | 179,942 | 134,038 | 134,007 | 24,357 | 33,774 | 161,456 32,105 |
| Tallow, inedible | 1/3,942 | 134,030 | 134,007 | 4,502 | 2,167 | |
| to a to a district and a transfer of the state of the sta | 297,373 | 288,338 | 282,217 | 82,993 | 120,675 | 2,129 132,038 |
| O | 70,216 | | | 81,251 | 138,396 | 142,303 |
| Copper and copper alloys . , , , , , , , , , , , , , , , , , , | 203,898 | | | 61,968 | 69,809 | 78,526 |
| Na - 6 to 2 | 203,698 | 104,770 | 140,429 | 367,398 | 367,469 | 447.862 |
| Danier and about als | • • • | • • | • • • | 265,028 | 339,966 | 467,172 |
| Dania autopad stationess | | | | 17,117 | 19,396 | 23,316 |
| Motor vehicles (new, assembled) . No. | 17,655 | 9,491 | 4,206 | 31.948 | 22,423 | 11,809 |
| All other articles | • | 7,491 | | 1,069,623 | 1,215,261 | 1,771,391 |
| An other arriers | • • | | • • | 1,009,023 | 1,413,401 | 1,771,391 |
| Total Australian Produce | | | | 5,961,425 | 6,707,055 | 8,404,387 |
| Total Australian Froquee | • • • | • • | • • | 3,701,423 | 0,707,033 | 0,404,38/ |

IMPORTS OF ASSEMBLED NEW PASSENGER MOTOR CARS(a) BY COUNTRY

| | France No. | | Germa F. R. | any, | Italy | | Japan | | Swee | ten | United Kingdor | n | Total all countries | |
|--|---|--|-------------------------|---|--|--|--|--|--|---|--|--|--|--|
| Year | No. | \$'000 | No. | \$'000 | No. | \$,000 | No. | \$'000 | No. | \$'000 | No. | \$,000 | No. | \$,000 |
| 1960-61(c) 1961-62 . 1962-63 . 1963-64 . 1964-65 . 1965-66 . 1966-67 . 1967-68 . 1968-69 . 1969-70 . 1970-71 . | 108 114 56 53 54 48 96 87 194 258 321 | 517 148 186 93 85 92 96 209 192 401 564 596 | | 1,417 535 3,208 1,602 2,281 4,227 6,026 7,695 7,989 11,299 11,796 10,650 | 797 733 2,203 2,535 2,226 1,716 1,867 4,032 6,797 8,479 4,125 2,284 | 736 816 2,680 3,332 2,672 2,195 2,548 4,961 10,399 6,201 2,888 | 336 667 3,596 7,709 22,559 16,386 17,836 35,591 28,478 24,497 36,891 33,906 | 290 556 3,248 7,035 19,043 14,977 15,979 29,262 25,784 22,889 34,806 36,222 | n.a. 62 56 127 36 196 231 364 917 683 2 035 842 | n.a. 107 96 250 70 361 437 674 1,889 1,518 4,657 1,957 | 2,103 1,022 2,051 1,890 2,033 1,835 1,346 1,286 1,627 2,029 2,244 1,742 | 4,806 2,480 5,503 4,884 5,333 5,036 4,025 3,505 4,461 6,075 8,187 7,527 | 4,944 3,664 11,999 15,115 28,930 22,204 23,578 45,096 40,931 39,438 48,617 41,992 | 8,534 6,011 17,696 20,487 31,672 28,367 30,182 47,529 50,487 53,615 66,997 63,464 |
| 1972-73 . 1973-74 . 1974-75 . | 784 738 1,732 | 1,619 1,373 3,872 | 2,771 4,179 5,735 | 13,474 23,385 36,439 | 1,743 3,271 7,923 | 4,207 7,308 20,061 | 38,262 79,116 124,782 | 45,168 97,515 171,827 | 150 1,614 4,024 | 370 3,984 10,997 | 1,095 1,782 2,450 | 4,996 8,382 14,102 | 45,259 91,478 147,855 | 71,620 145,041 261,853 |

Imports of merchandise, by economic class

The following table shows imports of merchandise into Australia classified according to economic classes of (i) purpose and (ii) degree of manufacture.

IMPORTS OF MERCHANDISE, BY ECONOMIC CLASS: AUSTRALIA

| | Value (\$'0 | 00 f.o.b.) | | | n of value oj ndise (per c | |
|--|------------------------------|---------------------------------|---------------------------------|--------------------|-------------------------------|--------------------|
| | 1972-73 | 1973-74 | 1974-75 | 197273 | 1973-74 | 1974-75 |
| | PU | RPOSE | | | | |
| Producers' materials for use in— | 147.004 | 262 600 | 220.020 | 4 1 | 4.3 | 3.0 |
| Building and construction Rural industries | 167,084 47,880 | 253,509 70,668 | 239,039 114,981 | 4.1 1.2 | 4.2 1.2 | 1.4 |
| Motor vehicle assembly(a) . | 228,760 | 289,096 | 413,498 | 5.6 | 4.8 | 5.2 |
| Other(b) | 1,269,279 | 2,027,585 | 2,511,907 | 31.2 | 33.6 | 31.6 |
| Total producers' materials(b) . | 1,713,002 | 2,640,857 | 3,279,425 | 42.1 | 43.8 | 41.2 |
| Capital equipment(c)— Producers' equipment Transport equipment— | 855,892 | 1,096,963 | 1,678,030 | 21.0 | 18.2 | 21.1 |
| Complete road vehicles and as- sembled chassis Railway equipment, vessels and | 193,853 | 329,951 | 526,472 | 4.8 | 5.5 | 6.6 |
| civil aircraft | 69,382 | 113,336 | 144,400 | 1.7 | 1.9 | 1.8 |
| Total capital equipment | 1,119,127 | 1,540,250 | 2,348,902 | 27.5 | 25.6 | 29.5 |
| Finished consumer goods— Food, beverages and tobacco Clothing and accessories All other(d) | 171,073 88,180 736,561 | 232,684 172,002 1,045,623 | 280,547 232,989 1,384,173 | 4.2 2.2 18.1 | 3.9 2.9 17.3 | 3.5 2.9 17.4 |
| Total, finished consumer goods(d) | 995,814 | 1,450,309 | 1,897,709 | 24.5 | 24.1 | 23.8 |
| Fuels and lubricants(e) Auxiliary aids to production(f) . Munitions and war stores | 68,933 93,505 81,530 | 123,712 119,938 152,024 | 234,314 156,248 47,309 | 1.7 2.3 2.0 | 2.1 2.0 2.5 | 2.9 2.0 0.6 |
| Grand total | 4,071,911 | 6,027,091 | 7,963,908 | 100.0 | 100.0 | 100.0 |
| DEC | REE OF | MANUFA | CTURE(g) | | | |
| Producers' materials— | | | | | | |
| Crude | 322,939 | 599,665 | 825,492 | 7.9 | 10.0 | 10.4 |
| Simply transformed | 311,201 | 493,170 | 545,213 | 7.6 | 8.2 | 6.8 |
| Elaborately transformed Finished consumer goods— | 1,078,861 | 1,548,022 | 1,908,719 | 26.5 | 25.7 | 24.0 |
| Crude | 42,302 | 54,078 | 61,794 | 1.0 | 0.9 | 0.8 |
| Simply transformed | 57,333 | 77,443 | 108,262 | 1.4 | 1.3 | 1.4 |
| Flaborately transformed | 896,179 | 1,318,782 | 1,727,653 | 22.0 | 21.9 | 21.7 |
| Total imports— Crude | 365,241 | 653,744 | 887,287 | 9.0 | 10.8 | 11.1 |
| Simply transformed | 498,351 | 775,308 | 989,788 | 12.2 | 12.9 | 12.4 |
| Elaborately transformed | 3,208,319 | 4,598,039 | 6,086,832 | 78.8 | 76.3 | 76.4 |
| Grand total | 4,071,911 | 6,027,091 | 7,963,908 | 100.0 | 100.0 | 100.0 |

⁽a) Owing to insufficient information, it is not possible to treat unassembled tractors and other machinery in a similar manner to motor vehicles, and all such machinery and replacement parts therefor are treated as capital equipment whether imported in an assembled or unassembled condition. (b) Excludes a percentage for piece-goods to be sold at retail, and paper to be used solely for wrapping, which are recorded in Finished consumer goods, All other; and Auxiliary aids to production, respectively. (c) See footnote (a). (d) Includes a percentage for piece-goods to be sold at retail; see footnote (b). (e) Excludes crude petroleum, which is included in Producers' materials, Manufacturing—Other. (f) Includes a percentage for paper to be used solely for wrapping; see footnote (b). (g) The class fuels and lubricants consists of goods 'simply transformed', and the classes Capital equipment and Munitions and war stores entirely of goods 'nore elaborately transformed'. The class Auxiliary aids to production is about equally divided between goods 'simply transformed' and 'elaborately transformed'.

Direction of Overseas Trade

Exports and imports, by country of consignment or of origin

The following two tables show the value and percentage of Australian exports and imports according to principal country of consignment or origin. The proportions of Australian exports and imports by country of origin or consignment are shown graphically on plate 36 on page 332.

AUSTRALIAN EXPORTS AND IMPORTS, VALUE BY COUNTRY OF CONSIGNMENT OR ORIGIN (\$'000 f.o.b.)

| | Exports | | | Imports | | |
|------------------------------------|-------------|-----------|-------------------|------------------|---------|-----------|
| Country | 1954-55 | 1964-65 | 1974-75 | 1954-55 | 1964-65 | 1974–75 |
| Arab Republic of Egypt | . 3,758 | 5,849 | 134,573 | 622 | 241 | 345 |
| Argentina | . 22 | 675 | 41,865 | 1,522 | 298 | 7,150 |
| Austria | . 1,852 | 3,504 | 3,357 | 8,242 | 8,202 | 34,526 |
| Bahrain | . 878 | 1,336 | 24,702 | 30,638 | 1,313 | 97,289 |
| Bangladesh | . (a) | (a) | 42,364 | (a) | (a) | 7,636 |
| Belgium-Luxembourg | . 62,504 | 59,514 | 73,543 | 24,468 | 24,880 | 73,026 |
| Brazil | . 46 | 192 | 32,533 | 4,264 | 5,041 | 28,059 |
| Canada | . 21,006 | 39,914 | 288,906 | 47,680 | 117,006 | 217,100 |
| China (excl. Taiwan Province) | 5,410 | 135,633 | 253,967 | 3,464 | 22,862 | 81,150 |
| Taiwan Province | . 1,092 | 8,137 | 80,950 | 200 | 4,355 | 113,103 |
| Denmark | . 2,084 | 3,974 | 4,723 | 2,318 | 6,725 | 34,523 |
| Fiji | . 7,834 | 18,958 | 60,542 | 2,614 | 13,796 | 10,080 |
| Finland | . 322 | 657 | 2,426 | 6,918 | 16,766 | 39,821 |
| France | . 128,112 | 111,781 | 175,069 | 29,378 | 66,903 | 139,838 |
| Germany, Federal Republic of | . 63,646 | 83,837 | 308,503 | 61,676 | 161,014 | 580,039 |
| Greece | . 1,154 | 13,869 | 31,959 | 260 | 1,499 | 20,770 |
| Hong Kong | 34,630 | 54,757 | 105,179 | 4,738 | 24,414 | 172,240 |
| India | . 38,876 | 55,400 | , | ., | | |
| Indonesia | . 7,404 | 7,431 | 83,160 175,251 | 52,114 45,058 | 40,909 | 57,840 |
| | | | | | 64,034 | 18,693 |
| Iran | . 584 | 18,449 | 116,411 | 11,868 | 26,698 | 76,796 |
| Iraq | . 520 | 4,745 | 44,899 | 828 | 12,503 | 92,519 |
| Israel | . 222 | 2,294 | 4,317 | 440 | 1,441 | 14,168 |
| Italy | . 71,830 | 85,190 | 150,042 | 23,480 | 50,511 | 208,818 |
| Japan | . 117,146 | 440,740 | 2,396,265 | 36,844 | 258,574 | 1,420,862 |
| Korea, Republic of | . (a) | 3,972 | 122,435 | (a) | 774 | 48,369 |
| Kuwait | . (a) | 5,242 | 30,819 | (a) | 31,819 | 118,618 |
| Malaysia | . (a) | (a) | 194,370 | (a) | (a) | 58,800 |
| Nauru, Republic of | . 1,006 | 3,302 | 11,195 | 2,404 | 6,399 | 34,920 |
| Netherlands | . 13,714 | 20,702 | 145,898 | 26,162 | 36,762 | 123,399 |
| New Caledonia | . 4,622 | 9,118 | 19,109 | 58 | 1,555 | 1,150 |
| New Zealand | . 75,588 | 158,302 | 529,270 | 16,084 | 46,541 | 183,910 |
| Norway | . 1,146 | 5,801 | 14,223 | 13,020 | 8,882 | 45,578 |
| Pakistan, Islamic Republic of . | . (a) | (a) | 86,490 | (a) | (a) | 5,386 |
| Papua New Guinea | . 24,444 | 58,517 | 193,806 | 11,430 | 19,720 | 34,179 |
| Peru | . 76 | 2,650 | 24,510 | 1,068 | 2,672 | 3,568 |
| Philippines | . 3,418 | 20,920 | 99,721 | 230 | 3,242 | 24,147 |
| Poland | . 12,486 | 14,380 | 51,426 | 246 | 2,476 | 9,074 |
| Saudi Arabia | . 1,914 | 5,431 | 27,863 | 13,726 | 49,974 | 171,136 |
| Singapore, Republic of | 23,200 | (a) | 206,480 | 4,984 | (a) | 126,905 |
| South Africa, Republic of . | 5,738 | 24,765 | 97,861 | 8,698 | 16,797 | 43,930 |
| Spain | 1,714 | 9,597 | 35,604 | 2,558 | 7,534 | 41,238 |
| Sri Lanka | . 17,446 | 18,671 | 45,148 | 39,032 | 17,277 | 12,834 |
| Sweden | 6,482 | | | | | |
| Switzerland | . 4,406 | 8,584 | 34,581 | 27,032 | 53,568 | 183,229 |
| | | 4,136 | 9,391 | 21,164 | 35,458 | 104,790 |
| Thailand | 2,314 | 13,855 | 49,444 | 152 | 1,139 | 16,150 |
| Union of Arab Emirates | . (a) | 997 | 21,804 | (a) | 1,931 | 9,177 |
| United Kingdom | . 571,012 | 516,226 | 474,838 | 757,338 | 761,412 | 1,214,426 |
| United States of America . | . 104,880 | 264,193 | 831,496 | 204,314 | 692,246 | 1,668,181 |
| U.S.S.R | . 2,370 | 76,441 | 243,086 | 260 | 2,167 | 6,376 |
| Yugoslavia | . 686 | 11,958 | 32,501 | 82 | 495 | 3,698 |
| Other countries | . 98,734 | 229,393 | 349,421 | 135,718 | 167,803 | 237,440 |
| 'For Orders' and Country of origin | or | | | | | |
| destination unknown | . (a) | 7,460 | 54,466 | 2,090 | 6,075 | 6,100 |
| Total | . 1,548,328 | 2,651,449 | | 1,687,484 | • | - |
| iviai | | | | | | |

AUSTRALIAN EXPORTS AND IMPORTS, PROPORTIONS, BY COUNTRY OF CONSIGNMENT OR ORIGIN

(Per cent)

| | • | | | | | |
|------------------------------------|-----------------|---------|---------|--------------|---------|---------|
| | Exports | | | Imports | | |
| Country | 1954–55 | 1964–65 | 1974-75 | 1954-55 | 1964-65 | 1974-75 |
| Arab Republic of Egypt | . 0.24 | 0.22 | 1.55 | 0.04 | 0.01 | 0.00 |
| Argentina | . 0.00 | 0.03 | 0.48 | 0.09 | 0.01 | 0.09 |
| Austria | . 0.12 | 0.13 | 0.04 | 0.49 | 0.28 | 0.43 |
| Bahrain | . 0.06 | 0.05 | 0.28 | 1.82 | 0.05 | 1.20 |
| Bangladesh | . (a) | (a) | 0.49 | (a) | (a) | 0.09 |
| Belgium-Luxembourg | . 4.04 | 2.24 | 0.85 | 1.45 | 0.86 | 0.90 |
| Brazil | . 0.00 | 0.01 | 0.38 | 0.25 | 0.17 | 0.35 |
| Canada | . 1.36 | 1.51 | 3.33 | 2.83 | 4.03 | 2.69 |
| China (excluding Taiwan Province) | . 0.35 | 5.12 | 2.93 | 0.21 | 0.79 | 1.00 |
| Taiwan Province | . 0.07 | 0.31 | 0.93 | 0.01 | 0.15 | 1.40 |
| Denmark | . 0.13 | 0.15 | 0.05 | 0.14 | 0.23 | 0.43 |
| Fiji | . 0.51 | 0.72 | 0.70 | 0.15 | 0.47 | 0.12 |
| Finland | . 0.02 | 0.02 | 0.03 | 0.41 | 0.58 | 0.49 |
| France | . 8.27 | 4.22 | 2.02 | 1.74 | 2.30 | 1.73 |
| Germany, Federal Republic of . | 4.11 | 3.16 | 3.56 | 3.65 | 5.54 | 7.18 |
| Greece | . 0.07 | 0.52 | 0.37 | 0.02 | 0.05 | 0.26 |
| Hong Kong | . 2.24 | 2.07 | 1.21 | 0.28 | 0.84 | 2.13 |
| India | 2.51 | 2.09 | 0.96 | 3.09 | 1.41 | 0.72 |
| Indonesia . | . 0.48 | 0.28 | 2.02 | 2.67 | 2.20 | 0.23 |
| Iran | . 0.04 | 0.70 | 1.34 | 0.70 | 0.92 | 0.95 |
| Iraq | . 0.03 | 0.18 | 0.52 | 0.05 | 0.43 | 1.14 |
| Israel | . 0.03 | 0.10 | 0.05 | 0.03 | 0.05 | 0.18 |
| Italy, | . 4.64 | 3.21 | 1.73 | 1.39 | 1.74 | 2.58 |
| Japan | . 7.57 | 16.62 | 27.63 | 2.18 | 8.90 | 17.58 |
| Korea, Republic of | | 0.15 | 1.41 | (a) | 0.03 | 0.60 |
| V | . (a) | 0.13 | 0.36 | (a) | 1.10 | 1.47 |
| Malaysia | | | 2.24 | (a) | (a) | 0.73 |
| Nauru, Republic of | . (a) . 0.06 | (a) | | 0.14 | 0.22 | 0.73 |
| Netherlands | . 0.06 | 0.12 | 0.13 | 1.55 | 1.27 | 1.53 |
| New Caledonia | . 0.30 | 0.78 | 1.68 | 0.00 | 0.05 | 0.01 |
| 3.7 m | | 0.34 | 0.22 | | 1.60 | 2.28 |
| New Zealand | . 4.88 | 5.97 | 6.10 | 0.95 0.77 | 0.31 | 0.56 |
| | . 0.07 | 0.22 | 0.16 | | | 0.30 |
| Pakistan, Islamic Republic of . | . (a) | (a) | 1.00 | (a) | (a) | 0.07 |
| Papua New Guinea | . 1.58 | 2.21 | 2.23 | 0.68 | 0.68 | |
| Peru. | . 0.00 | 0.10 | 0.28 | 0.06 | 0.09 | 0.04 |
| Philippines | . 0.22 | 0.79 | 1.15 | 10.0 | 0.11 | 0.30 |
| Poland | . 0.81 | 0.54 | 0.59 | 10.0 | 0.09 | 0.11 |
| Saudi Arabia | . 0.12 | 0.20 | 0.32 | 0.81 | 1.72 | 2.12 |
| Singapore, Republic of | . 1.50 | (a) | 2.38 | 0 30 | (a) | 1.57 |
| South Africa, Republic of . | . 0.37 | 0.93 | 1.13 | 0.52 | 0.58 | 0.54 |
| Spain | . 0.11 | 0.36 | 0.41 | 0.15 | 0.26 | 0.51 |
| Sri Lanka | . 1.13 | 0.70 | 0.52 | 2.31 | 0.59 | 0.16 |
| Sweden | . 0.42 | 0.32 | 0.40 | 1.60 | 1.84 | 2.27 |
| Switzerland | . 0.28 | 0.16 | 0.11 | 1.25 | 1.22 | 1.30 |
| Thailand | . 0.15 | 0.52 | 0.57 | 0.01 | 0.04 | 0.20 |
| Union of Arab Emirates | . (a) | 0.04 | 0.25 | (a) | 0.07 | 0.11 |
| United Kingdom | . 36.88 | 19.47 | 5.48 | 44.88 | 26.21 | 15.02 |
| United States of America | . 6.77 | 9.96 | 9.59 | 12.11 | 23.83 | 20.64 |
| U.S.S.R | . 0.15 | 2.88 | 2.80 | 0.02 | 0.07 | 0.08 |
| Yugoslavia | . 0.04 | 0.45 | 0.37 | 0.00 | 0.02 | 0.05 |
| Other countries | . 6.38 | 8.64 | 4.03 | 8.05 | 5.78 | 2.95 |
| 'For Orders' and Country of origin | or | | | | | |
| destination unknown | . (a) | 0.28 | 0.63 | 0.12 | 0.21 | 0.08 |
| Total | . 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| • • • • | | | | | | |

(a) Comparable figures not available.

Exports and Imports, by country of consignment and origin, and by description

The following table shows details of exports to and imports from principal countries, classified according to divisions of the Australian Export and Import Commodity Classifications.

EXPORTS AND IMPORTS BY COUNTRY OF CONSIGNMENT AND ORIGIN: DIVISIONS OF THE AUSTRALIAN EXPORT AND IMPORT COMMODITY CLASSIFICATIONS, 1974-75

| Distates | | Arab Re of Egypt | | Belgium- Luxembo | urg | Canada | | |
|-----------------|--|---|------------|---------------------|-----------------------------|--------------|-------------|--|
| Division Vo. | Description | Exports | Imports | Exports | Imports | Exports | Impor | |
| ю | Live animals | | | · · · | | 346 | | |
| 1 | Meat and meat preparations | 4,418 | | 508 | | 33,099 | 60 | |
| 2 | Dairy products and eggs | 1 | | 203 | 39 | 6,436 | 3.49 | |
| 13 14 | Fish and fish preparations Cereal grains and cereal preparations | 115,88 | • • | 203 5,258 | 28 59 | 226 6 | 3,45 | |
| 35 | Fruit and vegetables | 30 | 133 | 746 | 525 | 12,055 | 5,18 | |
| 6 | Sugar and sugar preparations and honey | | | 9 | 8 | 165,306 | 15 | |
| 17 | Coffee, tea, cocoa, spices and manufactures thereof | | 2 | | 28 | 53 | | |
| 18 19 | Feeding-stuff for animals (except unmilled cereals) | | | •; | 40 | ;; | 2 | |
| 1 | Miscellaneous preparations chiefly for food Beverages | · · · · · · · · · · · · · · · · · · · | | 1 5 | 28 19 | 11 1,893 | 1: | |
| ż | Tobacco and tobacco manufactures | | | 6 | | 1,055 | i | |
| 1 | Hides, skins and fur skins, undressed . | 262 | | 393 | · ' ' | 6 | | |
| 2 3 | Oil-seeds, oil nuts and oil kernels Crude rubber (including synthetic and re- | • • | • • | 935 | | • • | 1,1 | |
| | claimed) | | | 7 | 1,031 | 2 | 5 | |
| 4 | Wood, timber and cork | | • • | 372 | 49 | 8 | 24,6 | |
| 5 | Pulp and waste paper Textile fibres and their waste | 10,855 | | 19,113 | 279 | 2,214 | 12,0 | |
| 6 7 | Crude fertilisers and crude minerals (except coal, petroleum and precious stones) | 10,055 | | 12 | 103 | 2,214 | 20,7 | |
| 8 | Metalliferous ores and metal scrap . | 16 | | 26,981 | 40 | 11,334 | 2,1 | |
| 9 | Crude animal and vegetable materials, n.e.s. | | 11 | 285 | 59 | 1,145 | 1,4 | |
| | Coal, coke and briquettes | 1,975 | | 5,022 | 211 | • : | | |
| 3 4 | Petroleum and petroleum products Petroleum gases and other gaseous hydro- | • • | • • | • • | 311 | 1 | | |
| .7 | carbons | (a) | | (a) | | (a) | | |
| 1 | Animal oils and fats | | • • • | 252 | | 53 | | |
| 2 | Fixed vegetable oils and fats | | | | 8 | | 3 | |
| 3 | Animal and vegetable oils and fats, processed | | | - | | 7.4 | | |
| 1 | and waxes of animal or vegetable origin. Chemical elements and compounds. | 998 | • • | 5 2,346 | 7,955 | 74 39,990 | 4,9 | |
| 2 | Mineral tar and crude chemicals from coal, | 220 | • • • | 2,340 | 1,333 | 35,550 | 4,3 | |
| _ | petroleum and natural gas | | | 131 | 4 | | | |
| 3 | Dyeing, tanning and colouring materials | | | | 418 | 34 | 4 | |
| 4 | Medicinal and pharmaceutical products | 1 | | 4 | 383 | 57 | 5 | |
| 5 | Essential oils and perfume materials; toilet, polishing and cleansing preparations | | | 40 | 0.0 | 2.5 | | |
| 6 | Fertilisers, manufactured | • • | 1 | 49 | 96 91 | 35 | 3,7 | |
| 7 | Explosives and pyrotechnic products . | | | 31 | 146 | 4 | ``, | |
| 8 | Plastic materials, regenerated cellulose and | • | | | | | | |
| 9 | artificial resins | | • • • | 110 | 1,190 | 19 | 7,8 | |
| í | Leather, leather manufactures, n.e.s., and | • • | • • • | 110 | 1,405 | 890 | 1,4 | |
| | dressed fur skins | | | 1 | 106 | 112 | 1 | |
| 2 | Rubber manufactures, n.e.s. | | | 2 | 2,351 | 206 | · | |
| 3 | Wood and cork manufactures (except furni- | | | 4 | | | | |
| 4 | Paper, paperboard and manufactures thereof | ż | • • | 4 | 292 2,523 | 2 36 | 1,3 40,5 | |
| 5 | Textile yarn, fabrics, made-up articles and | 2 | • • | • • • | 2,.723 | 30 | ٦٥,٠ | |
| | related products | | 175 | 29 | 4,996 | 135 | 7,0 | |
| 6 | Non-metallic mineral manufactures, n.e.s. | | 1 | 1,336 | 9,541 | 1,155 | 3,1 | |
| 7 | Iron and steel | • • | • • | 6,756 | 2,051 | 2,311 | Į, | |
| 8 9 | Non-ferrous metals | • • | | 403 528 | 839 2,372 | 772 1,945 | 6, 8,8 | |
| í | Machinery (except electric) | 69 | | 442 | 18,087 | 2,951 | 26, | |
| 2 | Electric machinery, apparatus and appli- | | ., | | • | | | |
| • | ances | 13 | | 146 | 8,573 | 634 | 7,0 | |
| 3 1 | Transport equipment | 20 | | 18 | 302 | 242 | 5, | |
| • | Sanitary, plumbing, heating and lighting fix- tures and fittings | 10 | | 3 | 40 | 1 | 4 | |
| 2 | Furniture | | · <u>;</u> | | 127 | 12 | | |
| 3 | Travel goods, handbags and similar articles. | | | | 2 | 2 | | |
| 4 | Clothing and clothing accessories; articles of knitted or crocheted fabric | | | 27 | 32 | 358 | 9 | |
| 5 | Footwear, gaiters, and similar articles and | | | | - | | | |
| 6 | Professional, scientific and controlling instru- | • • | • • | •• | 5 | 16 | | |
| | ments; photographic and optical goods, watches and clocks | | 10 | 97 | 2,223 | 978 | 2,1 | |
| 9 | Miscellaneous manufactured articles, n.e.s | | 7 | 729 | 2,731 | 848 | 6,6 | |
| Ā | Commodities and transactions of merchan- | | | | -, | 0.70 | ٠,٠ | |
| | dise trade, not elsewhere classified(b) . | 1 | 2 | 30 | 1,423 | 383 | 2, | |
| | Total merchandise | 134,557 | 345 | 73,445 | 72,963 | 288,397 | 216, | |
| В | Commodities and transactions not included in merchandise trade | 16 | | 98 | 63 | 509 | 5 | |
| | | | | | | | | |
| | Grand total | 134,573 | 345 | 73,543 | 73.026 | 288,906 | 217,1 | |

⁽a) Included in Division 9A. (b) Includes Division 34 and 68 (Exports only).

EXPORTS AND IMPORTS BY COUNTRY OF CONSIGNMENT AND ORIGIN: DIVISIONS OF THE AUSTRALIAN EXPORT AND IMPORT COMMODITY CLASSIFICATIONS, 1974-75 continued

| Die | | China (e. Taiwan I | | Taiwan Pi | rovince | France | | Germany, Republic o | Federal of | Hong Kor | g |
|----------------|---|-----------------------|----------------|-----------------|----------------|---------------|-----------------|------------------------|-------------------|-----------------|-----------------|
| Div. No. | | Exports | Imports | Exports | Imports | Exports | Imports | Exports | Imports | Exports | Import |
| 00 | | ,! | 46 | 7.112 | | 2 022 | 6 | | .5 | 436 | |
|)1)2 | : | 11 | 49 | 7,115 12,854 | 3 | 2,822 | 62 642 | 1,360 | 53 348 | 4,192 7,223 | : |
| 13 14 | • | 20 158,058 | 637 163 | 93 25,004 | 755 | 1,151 21 | 106 | 455 | 751 | 2,146 7,799 | 232 193 |
|)5 | : | ٠ | 2,286 | 23,004 | 4,770 | 1,039 | 23 295 | 7,531 5,743 | 268 561 | 2,121 | 388 |
|)6 | • | 13,928 | 12 | 4 | 33 | • • | 52 | 398 | 48 | 134 | 61 |
|)7 | • | • • | 1,369 | • • | 68 | 3 | 35 | • • | 327 | 369 | 109 |
| 18 19 | : | 4 43 | 187 | 1,080 10 | 89 276 | | 104 174 | 3,461 | 528 244 | 245 503 | 400 |
| 1 | | 4 | 10 | 6 | | | 3,833 | 13 | 1,819 | 871 | 5 |
| 2 1 | : | 2,566 | 258 167 | 614 | 4 | 41,279 | 72 151 | 9,206 | 216 | 234 1,549 | |
| 2 | • | • • • | 50 | | | 11 | | 2,269 | .; | ´ 5 | 62 |
| 3 | | | | | 12 103 | 93 | 346 63 | 162 | 288 23 | 14 179 | 28 |
| 24 25 26 | | 2,801 | 356 | 9,937 | 9 94 | 68,838 | 3 36 | 58,446 | 1,180 | 11 5,301 | 212 |
| :7 | • | 2,001 | 863 | 1,467 | 1 | 3 | 171 | 17 | 1,544 | 118 | 3 |
| 8 | : | 11,014 | 54 | 1,165 | | 23,922 | | 87,792 | 34 | 359 | 143 |
| .9 2 | | 6 | 1,726 | 180 3,727 | 91 | 267 13,840 | 278 | 2,986 8,309 | 292 316 | 320 8 | 384 |
| 3 | : | :: | 459 | 6 | żi | 58 | 37 | 20 | 864 | 21 | :: |
| 4 | | (a) | | (a) | | (a) | 43 | (a) | | (a) | |
| 2 | : | 6,726 | 283 | 1,691 | | 1,031 | · ; | 258 | 172 | 88 9 | 134 |
| 3 | | 20 306 | 1 2,254 | 52 862 | 495 | 13 159 | 42 9,237 | 463 7,917 | 116 25,440 | 335 797 | 151 |
| 2 | • | 200 | _, | 002 | 1,,5 | | 2 | 624 | 6 | 1 | |
| 3 | : | 336 | 101 | 139 | | | 1,511 | 71 | 6,137 | 238 | 6 |
| 4 | • | ••• | 468 | 22 | 184 | 108 | 1,353 | 425 | 22,602 | 1,452 | 79 |
| 5 6 | ٠ | • • | 112 | 30 | 42 | 48 | 3,354 737 | 108 | 1,765 1,125 | 849 1 | 923 |
| 7 | : | • • | 92 | 4 | 124 | 70 | 21 | 398 | 228 | 38 | iŝ |
| 8 | | 392 | 2 260 | 55 | 3,354 | 155 | 8,492 | .13 | 16,423 | 1,159 | 438 469 |
| 9 | • | 2 | 2,369 | 52 | 18 | 66 | 1,071 | 127 | 7,331 | 252 | |
| 2 | : | •• | 112 72 | 22 11 | 332 1,713 | 84 12 | 635 5,842 | 299 68 | 934 9,995 | 268 40 | 38 28 |
| 3 | : | • • • | 84 857 | 9 16 | 9,701 115 | 3 19 | 236 1,712 | 105 26 | 902 8,685 | 22 1,117 | 174 688 |
| 5 | | | 31,551 | 89 | 13,667 | 37 | 5,021 | 139 | 15,911 | 1,556 | 38,320 |
| 6 7 | | 55,398 | 1,888 13 | 245 4,043 | 1,891 907 | 92 100 | 3,726 2,646 | 1,926 26,739 | 11,193 10,069 | 9,537 12,140 | 1,706 22 |
| 8 | • | 172 | 408 | 5,421 | 1,054 | 15,741 | 288 | 65,670 | 3,120 | 6,146 | 128 |
| 9 1 | | 5 43 | 914 369 | 439 2,343 | 2,938 2,963 | 244 567 | 3,157 22,074 | 1,774 1,759 | 18,490 154,969 | 2,342 4,041 | 2,888 4,489 |
| 2 | | 170 | 997 | 687 | 9,482 | 1,017 | 10,866 | 1,131 | 78,365 | 2,270 | 12,274 |
| 3 | | 83 | 40 | 475 | 2,197 | 861 | 30,481 | 153 | 99,830 | 2,703 | 1,278 |
| 1 | | | 157 | 24 | 303 | ** | 118 | · ' | 1,575 | 129 | 1,474 |
| 2 3 | : | | 402 443 | 57 | 3,151 2,878 | 39 1 | 191 128 | 7 | 441 256 | 126 46 | 1,088 5,800 |
| 4 | | 6 | 18,541 | 11 | 28,039 | 150 | 2,744 | 355 | 1,854 | 909 | 60,226 |
| 5 | | •• | 5,210 | 2 | 9,363 | 1 | 1,728 | 8 | 536 | 4 | 2,302 |
| 6 | | 1 | 707 | 133 | 810 | 311 | 4,287 | 851 | 33,363 | 3,223 | 4,308 |
| 9 A(b) | | · 3 | 2,816 1,214 | 113 515 | 8,655 2,327 | 174 63 | 7,041 3,713 | 5,587 676 | 25,890 9,145 | 1,372 705 | 28,139 2,030 |
| (**) | | 252,122 | 81,127 | 80,839 | 113,040 | 174,514 | 138,987 | 305,850 | 576,581 | 88,067 | 171,839 |
| В | | 1,845 | 23 | 111 | 63 | 555 | 851 | 2,653 | 3,458 | 17,112 | 401 |
| - | • | 253,967 | 81,150 | 80,950 | 113,103 | 175,069 | 139,838 | 308,503 | 580,039 | 105,179 | 172,240 |
| | | 200,707 | | ,,,,,, | | | , | | , | | |

⁽a) Included in Division 9A. (b) Includes Division 34 (Exports only).

EXPORTS AND IMPORTS BY COUNTRY OF CONSIGNMENT AND ORIGIN: DIVISIONS OF THE AUSTRALIAN EXPORT AND IMPORT COMMODITY CLASSIFICATIONS, 1974-75—

continued

| D:-::-:- | | India | | Indones | rsia Italy | | | |
|-----------------|--|----------|------------|------------|------------------|-----------|-----------|--|
| Division Vo. | Description | Exports | Imports | Exports | Imports | Exports | Impo | |
| 00 | Live animals | 41 | | 607 | | | | |
|)1 | Meat and meat preparations | 32 | 23 | 392 | | 635 | 1 | |
|)2 | Dairy products and eggs | 182 | 10 | 7,571 | .:: | -:: | 1,4 | |
|)3 | Fish and fish preparations | 21.500 | 2,472 | 9 | 113 | 214 | 2 | |
|)4)5 | Cereal grains and cereal preparations . | 31,590 | 36 | 85,263 | , l | 1,783 | 2: 4,8 | |
|)6 | Fruit and vegetables | 48 12 | 3,973 2 | 655 156 | 81 | 201 | 1,5 | |
|)7 | Coffee, tea, cocoa, spices and manufactures | | 6,769 | 64 | 11 192 | •• | 1,3 | |
| 8 | feeding-stuff for animals (except unmilled | | 0,709 | | 11,183 | • • | | |
|)9 | cereals) Miscellaneous preparations chiefly for food. | 1 8 | 90 | 25 239 | | 'i | 2 | |
| ĺí | Beverages | 29 | | 222 | · | î | 3,0 | |
| 2 | Tobacco and tobacco manufactures | | | 27 | 34 | | -,- | |
| 21 | Hides, skins and fur skins, undressed . | 42 | | | | 9,746 | | |
| 2 | Oil-seeds, oil nuts and oil kernels | | 123 | | 58 | 1,931 | | |
| 23 | Crude rubber (including synthetic and re- claimed) | | | | 1,927 | ., | | |
| 24 25 26 | Wood, timber and cork | | 67 | 34 | 1,618 | 30 | | |
| 25 | | | | 270 | · | | | |
| 26 | Textile fibres and their waste | 16,428 | 2,140 | 163 | | 47,996 | | |
| 27 | Crude fertilisers and crude minerals (except | | • | | | | | |
| | coal, petroleum and precious stones) . | 5 | 180 | 1,040 | 1 | 12 | 49 | |
| 28 29 | Metalliferous ores and metal scrap | 1,834 | -:: | 272 | | 38,765 | | |
| 29 | Crude animal and vegetable materials, n.e.s. | 9 | 582 | 39 | 55 | 551 | 14 | |
| 32 | Coal, coke and briquettes | | 44 | 170 | -:: | 33,015 | | |
| 13 14 | Petroleum and petroleum products Petroleum gases and other gaseous hydro- | • • • | 31 | 340 | 514 | 61 | | |
| | carbons | (a) | | (a) | | (a) | | |
| 1 | Animal oils and fats | 28 | | 27 | | 32 i | | |
| 2 | Fixed vegetable oils and fats | | 577 | 10 | 982 | | 6 | |
| 3 | Animal and vegetable oils and fats, processed and waxes of animal or vegetable origin. | | 388 | 466 | | | | |
| 1 | Chemical elements and compounds | 197 | 1,059 | 3,141 | 4i | <u>29</u> | 3,6 | |
| 2 | Mineral tar and crude chemicals from coal, | 177 | 1,029 | 3,171 | 71 | | ٥,٠ | |
| | petroleum and natural gas | ٠. | | | | | | |
| 3 | Dyeing, tanning and colouring materials . | 4 | 70 | 611 | | 2 | 6 | |
| 4 | Medicinal and pharmaceutical products . | 21 | 101 | 493 | 412 | 192 | 8 | |
| 5 | Essential oils and perfume materials; toilet, | | | | | | | |
| _ | polishing and cleansing preparations . | 51 | 108 | 745 | 136 | 78 | 3 | |
| 6 | Fertilisers, manufactured | ٠: | | 1,996 | | 12 | | |
| 7 | Explosives and pyrotechnic products | 1 | • • | 3 | | 45 | | |
| 8 | Plastic materials, regenerated cellulose and artificial resins | 138 | 6 | 1,404 | | 3 | 2,9 | |
| 9 | Chemical materials and products, n.e.s. | 26 | 176 | 764 | i ŝ | 14 | 2,5 | |
| í | Leather, leather manufactures, n.e.s., and | 20 | 170 | 704 | 10 | 17 | | |
| .1 | dressed fur skins | 18 | 665 | 7 | 40 | 292 | 9 | |
| 2 | Rubber manufactures, n.e.s. | 2 | 201 | 210 | | 272 | 3,3 | |
| 3 | Wood and cork manufactures (except furni- | 2 | 201 | 210 | • • | ••• | ٠,٠ | |
| - | ture) | | 172 | 100 | 18 | 4 | 9 | |
| 4 | Paper, paperboard and manufactures thereof | 46 | 47 | 494 | | i | 3,2 | |
| 5 | Textile yarn, fabrics, made-up articles and | | | ••• | • • • | • | -,- | |
| | related products | 42 | 19,355 | 304 | 77 | 37 | 10,3 | |
| 6 | Non-metallic mineral manufactures, n.e.s. | 71 | 1,742 | 1,175 | 10 | 107 | 8,1 | |
| 7 | Iron and steel | 1,886 | 582 | 8,478 | | 234 | 3,6 | |
| 8 | Non-ferrous metals | 26,147 | 1 | 10,292 | · ' Ż | 10,918 | 2,2 | |
| 9 | Manufactures of metal, n.e.s. | 21 | 1,030 | 5,810 | | 214 | 5,1 | |
| 1 | Machinery (except electric) | 971 | 3,566 | 10,923 | 16 | 714 | 48,8 | |
| 2 | Electric machinery, apparatus and appliances | 114 | 1,934 | 2,776 | 3 | 1,010 | 26,3 | |
| 3 1 | Transport equipment | 280 | 205 | 16,066 | 26 | 47 | 32,3 | |
| | tures and fittings | | 73 | 220 | 11 | 1 | 1,8 | |
| 2 | Furniture | | 143 | 129 | 40 | • • • | 3,2 | |
| 3 4 | Travel goods, handbags and similar articles. Clothing and clothing accessories; articles of | • • | 249 | 2 | 9 | 6 | 1,0 | |
| 5 | knitted or crocheted fabric Footwear, gaiters, and similar articles and | 2 | 4,989 | 134 | 269 | 46 | 4,9 | |
| | parts therefor | 9 | 1,983 | 46 | 331 | | 10,5 | |
| 5 | Professional, scientific and controlling in- struments; photographic and optical | - | -, | | | | | |
| | goods, watches and clocks | 57 | 242 | 665 | 13 | 226 | 4,7 | |
| 9 | Miscellaneous manufactured articles, n.e.s | 54 | 1,077 | 755 | 226 | 95 | 11,6 | |
| | Commodities and transactions of merchan- | | 1,011 | ,,,, | 240 | ,, | , | |
| • | dise trade, not elsewhere classified(b) | 125 | 539 | 3,716 | 335 | 146 | 2,3 | |
| | | | | | | 149,726 | | |
| D | Total merchandise | 80,572 | 57,776 | 169,522 | 18,678 | 147,/20 | 208,1 | |
| В | Commodities and transactions not included in merchandise trade | 2,589 | 64 | 5,729 | 15 | 316 | 6 | |
| | | | | | | 450 010 | | |
| | Grand total | 83,160 | 57,840 | 175,251 | 18,693 | 150,042 | 208,8 | |

⁽a) Included in Division 9A.

⁽b) Includes Division 34 (Exports only).

EXPORTS AND IMPORTS BY COUNTRY OF CONSIGNMENT AND ORIGIN: DIVISIONS OF THE AUSTRALIAN EXPORT AND IMPORT COMMODITY CLASSIFICATIONS, 1974-75—

continued

| Div. | Japan | | Malaysia | 1 | Netherla | nds | New Zea | land | Pakistan Rep. of | Islamic |
|--------------------------|------------------|--------------------|-----------------|----------------|----------------|------------------|------------------|------------------|---|---|
| Vo. | Exports | Imports | Exports | Imports | Exports | Imports | Exports | Imports | Exports | Imports |
| ю. | 137 | | 646 | | | 11 | 2,287 | 7,962 | 27 | |
|)1 .)2 . | 45,194 37,340 | 24 8 | 2,253 9,985 | • • • | 1,852 | 117 1,198 | 392 440 | 429 1,759 | 21 181 | |
| 3. | 21,834 | 17,812 | 71 | 2,698 | 68 | 815 791 | 866 | 4,471 1,907 | | 10 |
| 4 . 5 . | 314,854 5,040 | 387 771 | 44,608 1,273 | 10 | 2.450 | 791 | 23,673 | 1,907 6,799 | 71,684 | 17 |
| 6 . | 108,997 | 217 | 50,623 | 184 | 2,450 19 | 1,008 531 | 4,802 14,997 | 1,651 | 13 12 | : |
| 7. | 6,287 | 1,551 | 1,262 | 1,369 | | 10,548 | 614 | 125 | | (|
| 8 . 9 . | 4,795 366 | 1,917 393 | 921 299 | 1 35 | 5 | 26 286 | 108 532 | 277 566 | · | • |
| 1. | 362 | 69 | 228 | | ·i | 326 | 997 | 63 | 2 | • |
| 2. | 0.202 | 11 | 102 | •• | 4 054 | 8,038 | 333 | 22 | .;; | • • |
| 1 . 2 . | 9,293 359 | 4 | 103 18 | ·i | 1,834 1,853 | 10 | 431 577 | 379 16 | 140 | :: |
| 3 . 4 . 5 . 6 . | 78 | 2,482 93 | 6 | 13,779 | . 3 | 377 | 735 | 404 | | |
| 5 . | 1,554 | 7,678 | 171 | 18,888 | 501 | 1 | 1,280 | 4,947 21,100 | • • | • • |
| <u>6</u> . | 233,905 | 6,446 3,788 | 100 | 38 | 19,135 | 2,583 | 1,347 | 8,821 | 1,573 | 720 |
| • | 17,930 | | 1,096 | • • | 587 | 26 | 2,230 | 249 | • • | 14 |
| 8. | 758,069 | 203 781 | 17,152 244 | 119 178 | 46,045 | | 851 | 1,700 | 339 | ż |
| 8 . 9 . 2 . 3 . | 3,719 508,641 | 282 | 54 | 176 | 510 23,358 | 1,011 | 1,092 168 | 2,503 | • • • | ,, |
| 3, | 25,152 | 3,131 | 1,346 | i | , | 290 | 80,822 | 17 | ••• | ••• |
| 4. | (a) | | (a) 2,250 | | (a) | 5 | (a) 49 | :: | (a) | |
| 1 . | 6,639 | 846 | 2,250 181 | 6,423 | 6,042 | 210 | 49 1,265 | 11 | 36 | |
| 3. | 37 | 288 | 91 | | 39 | 1,986 | 241 | 26 | 4 | |
| ι. | 32,856 | 77,003 | 3,152 | 119 | 18,040 | 8,016 | 28,901 | 658 | 242 | |
| ?. | 1 | 184 | 243 | • • | 196 | 1 | 945 | 2 436 | | |
| 2 . 3 . 4 . | 153 1,765 | 1,500 2,833 | 1,746 | 287 | 968 | 1,211 2,102 | 4,577 14,965 | 2,241 | 134 | |
| <u> </u> | 1,501 | 687 | 2,096 | 20 | 49 | 613 | 2,402 | 1,082 | 2 | 1 |
| 6 . 7 . | 2 | 1,016 42 | 21 | • • | i <i>ċ</i> | 181 | 145 1,087 | 119 | • • | • • • |
| 3 . | 393 | 35,035 | 404 | 277 | 19 | 3,767 | 10,580 | 1,709 | 12 | :: |
| 9. | 3,131 135 | 3,267 800 | 898 346 | 29 20 | 17 9 | 4,830 61 | 4,054 666 | 374 890 | 32 21 | 20 94 |
| 2. | 33 | 32,943 | 88 | | 18 | | | 847 | | 14 |
| ž : | 46,518 | 1,077 | 86 | 1,545 3,198 | 22 | 1,527 138 | 1,419 1,742 | 623 | • | 174 |
| 1 . | 46,518 221 | 20,663 | 2,833 | 4 | 192 | 4,400 | 4,389 | 27,951 | 43 | •• |
| <u>.</u> | 1,320 | 94,631 | 659 | 3,081 | 26 | 3,940 | 18,338 | 15,743 | <u>.:</u> | 2,462 |
| . . | 3,506 21,888 | 30,160 151,674 | 718 5,104 | 38 10 | 170 258 | 1,125 508 | 7,515 53,298 | 1,606 203 | 74 9,866 | 29 |
| 3. | 70,811 | 4,930 | 8,525 | 140 | 16,207 | 266 | 36,569 | 701 | 220 | • |
| • | 4,632 | 33,638 | 3,543 | 563 | 214 | 1,556 | 18.859 | 6,703 | 250 | 82 |
| ! . 2 . | 2,848 2,060 | 159,529 202,287 | 9,235 3,541 | 2,563 203 | 837 3,411 | 13,489 29,852 | 35,656 33,397 | 10,453 17,272 | 390 819 | żż |
| 3 : | 2,274 | 382,267 | 5,382 | 18 | 93 | 1,489 | 59,104 | 10,427 | 62 | |
| ι. | 30 | 2,141 | 232 | 14 | 3 | 301 | 461 | 304 | •• | !! |
| 3 : | 81 38 | 991 1,301 | 154 5 | 415 20 | 6 2 | 527 10 | 386 61 | 1,571 1,216 | | 11 3 |
| ١. | 520 | 4,060 | 498 | 735 | 80 | 103 | 717 | 3,810 | 11 | 526 |
| 5. | 1 | 1,286 | 3 | 548 | | 30 | 284 | 898 | | 58 |
| s . | 968 | 39,975 | 791 | 206 | 143 | 7,254 | 12,805 | 1,362 | 115 | 270 |
| | 2,112 | 61,685 | 843 | 341 | 87 | 4,317 | 16,183 | 5,161 | 6 | 558 |
| (b) . | 83,261 | 20,881 | 923 | 490 | 143 | 1,386 | 3,485 | 2,737 | 4 | 37 |
| | 2,393,652 | - | 187,053 | 58,608 | 145,535 | 123,196 | 514,118 | 182,900 | 86,338 | 5,307 |
| в. | 2,613 | 3,192 | 7,317 | 192 | 363 | 203 | 15,152 | 1,011 | 152 | 79 |
| | | 1,420,862 | 194,370 | 58,800 | 145,898 | 123,399 | 529,270 | 183,910 | 86,490 | 5,386 |

⁽a) Included in Division 9A. (b) Includes Division 34 and 68 (Exports only).

EXPORTS AND IMPORTS BY COUNTRY OF CONSIGNMENT AND ORIGIN: DIVISIONS OF THE AUSTRALIAN EXPORT AND IMPORT COMMODITY CLASSIFICATIONS, 1974-75—continued

| Distate | | Papua Ne | w Guinea | Philippine | es | Singapore | , Rep. o | |
|-----------------|---|----------|----------|------------|-------------|-----------|----------|--|
| Division Vo. | Description | Exports | Imports | Exports | Imports | Exports | Impor | |
| 00 | Live animals | 102 | | 27 | · | 1,915 | | |
| 1 | Meat and meat preparations | 14,366 | | 2,901 | | 6,401 | | |
|)2 | Dairy products and eggs | 3,360 | | 12,355 | | 7,682 | | |
| 13 | Fish and fish preparations | 528 | 472 | 5 | 55 | 933 | 1,20 | |
| 4 | Cereal grains and cereal preparations . | 20,259 | | 14,934 | 2 | 25,494 | | |
| 5 | Fruit and vegetables | 2,259 | 128 | 6 | 3,288 | 8,170 | 11 | |
| 6 7 | Sugar and sugar preparations and honey. Coffee, tea, cocoa, spices and manufactures | 7,354 | • • | 6 | • • • | 13,656 | | |
| 8 | thereof Feeding-stuff for animals (except unmilled | 1,293 | 15,780 | | • • | 455 | 86 | |
| o . | cereals) | 1,767 | | 1,539 | | 2,475 | | |
| 9 | Miscellaneous preparations chiefly for food. | 1,329 | • • • | 55 | •• | 354 | 1 | |
| ĺ | Beverages | 1,947 | iġ | 27 | · 6 | 923 | • | |
| <u> </u> | Tobacco and tobacco manufactures . | 1,988 | 323 | | 45 1 | 723 | | |
| | Hides, skins and fur skins, undressed . | 1,703 | 323 | • • • | | iò | | |
| | Oil-seeds, oil nuts and oil kernels | 3 | 1,185 | | •• | 13 | | |
| ĺ | Crude rubber (including synthetic and re- | 3 | 1,105 | • • • | • • | , | | |
| | claimed) | 96 | 2,767 | 114 | | 6 | 8 | |
| ı | | 41 | 3,181 | | 4,109 | ž | 1,5 | |
| , | Wood, timber and cork | 17 | .,,,,,,, | • • | 4,107 | 82 | 1,7 | |
| | Pulp and waste paper | 603 | • • • | · ġ | 68 | 263 | | |
| i | Textile fibres and their waste | 003 | • • • | , | 00 | 203 | | |
| | Crude fertilisers and crude minerals (except | 305 | | 410 | 1 | 375 | | |
| | coal, petroleum and precious stones) | 303 | 199 | 418 | 426 | 2.489 | | |
| | Metalliferous ores and metal scrap | 200 | | 435 | | | | |
| | Crude animal and vegetable materials, n.e.s. | 209 | 20 | 102 | 131 | 289 | 3 | |
| | Coal, coke and briquettes | 8 | á÷. | .47 | • • | 10 634 | | |
| | Petroleum and petroleum products | 4,508 | 97 | 128 | • • | 10,637 | 94,8 | |
|) | Petroleum gases and other gaseous hydro- | | | | | | | |
| | carbons | (a) | | (a) | • • | (a) | | |
| | Animal oils and fats | 829 | 4 - 1.1 | 640 | : | 1,623 | | |
| | Fixed vegetable oils and fats | 375 | 3,342 | | 1,504 | 62 | 1 | |
| | Animal and vegetable oils and fats, processed | | | | | | | |
| | and waxes of animal or vegetable origin. | 274 | | 54 | .21 | 71 | | |
| | Chemical elements and compounds | 1,296 | | 2,017 | 174 | 1,116 | | |
| | Mineral tar and crude chemicals from coal, | | | | | | | |
| | petroleum and natural gas | 6 | | 94 | | 1 | | |
| | Dyeing, tanning and colouring materials . | 944 | | 433 | 4 | 1,212 | | |
| | Medicinal and pharmaceutical products . | 1,009 | | 727 | 39 | 1,212 | 3 | |
| | Essential oils and perfume materials; toilet, | -, | | | | • | | |
| | polishing and cleansing preparations . | 3,703 | | 186 | | 2,482 | | |
| ; | Fertilisers, manufactured | 74 | | 433 | | · 7 | | |
| , | Explosives and pyrotechnic products | 370 | | 4 | 181 | 4 | | |
| : | Plastic materials, regenerated cellulose and | | | | | | | |
| | artificial resins | 1,923 | | 1,127 | 698 | 1,598 | 1,6 | |
|) | Chemical materials and products, n.e.s. | 909 | 260 | 332 | 30 | 1,024 | | |
| | Leather, leather manufactures, n.e.s., and | | | | | • | | |
| | dressed fur skins | 31 | | 122 | 117 | 606 | 1 | |
| | Rubber manufactures, n.e.s. | 1,446 | | 107 | 59 | 206 | i | |
| | Wood and cork manufactures (except furni- | ., | | | | | | |
| | ture) | 279 | 2,986 | 12 | 1,359 | 62 | 2,2 | |
| | Paper, paperboard and manufactures thereof | 6,546 | 2,,00 | 443 | 74 | 2,105 | -,- | |
| | | 0,510 | • • • | .,, | • • | -, | | |
| | Textile yarn, fabrics, made-up articles and | 1,700 | 7 | 457 | 573 | 1,184 | 2,7 | |
| | related products | 3,151 | 26 | 523 | 843 | 4,577 | -12 | |
| | Non-metallic mineral manufactures, n.e.s. | 13,917 | 21 | 19,154 | 59 | 11,310 | • | |
| | Iron and steel | 1,145 | ٠. | 7,039 | | 5,052 | | |
| | Non-ferrous metals | 9,514 | 66 | 5,030 | 215 | 9,447 | 5 | |
| | Manufactures of metal, n.e.s | 22,990 | 32 | 9,879 | 192 | 22,647 | 3,6 | |
| | Machinery (except electric) | 10,657 | 6 | 1,593 | 143 | 6,798 | 2,3 | |
| | Electric machinery, apparatus and appliances | 9,176 | 46 | 9,840 | 963 | 32,015 | | |
| | Transport equipment | 2,170 | 70 | 2,040 | 703 | 22,013 | • | |
| | Sanitary, plumbing, heating and lighting fix- | 784 | | 22 | 203 | 460 | | |
| | tures and fittings | 627 | 'n | 6 | 817 | 132 | 1,0 | |
| | Furniture | 70 | | | 52 | 30 | 'n | |
| | Travel goods, handbags and similar articles. | 70 | • • • | • • • | | ,,, | | |
| | Clothing and clothing accessories; articles of | 1 214 | 19 | 95 | 4,119 | 1,797 | 3,5 | |
| | knitted or crocheted fabric | 1,214 | 17 | 73 | 7,117 | 1,777 | ٥,٠ | |
| | Footwear, gaiters, and similar articles and | 012 | 1 | 11 | 709 | 117 | 3 | |
| | parts therefor Professional, scientific and controlling instru- | 813 | | 11 | 107 | 11, | | |
| | rrotessional, scientific and controlling instru- | | | | | | | |
| | ments; photographic and optical goods, | 2.010 | 4.4 | 3 646 | 41 | 4,479 | 4 | |
| | watches and clocks | 2,018 | 44 | 2,646 | 1 006 | | 4 | |
| | Miscellaneous manufactured articles, n.e.s | 4,186 | 70 | 600 | 1,996 | 3,127 | 4,1 | |
| | Commodities and transactions of merchan- | 100.0 | ~ | =0.0 | 222 | 017 | | |
| | dise trade, not elsewhere classified(b) . | 19,846 | 365 | 705 | 322 | 916 | 1,3 | |
| | Total merchandise | 184,177 | 31,469 | 97,440 | 24,048 | 200,095 | 126, | |
| | | -07,177 | 32,407 | 2.,770 | 2.,010 | , | | |
| 3 | Commodities and transactions not included | | | | | | | |
| , | | 9,629 | 2710 | 7 301 | 99 | 6,385 | - 4 | |
| , | in merchandise trade | 9,029 | 2,710 | 2,281 | " | 0,505 | | |

⁽a) Included in Division 9A. (b) Includes Division 34 and 68 (Exports only).

EXPORTS AND IMPORTS BY COUNTRY OF CONSIGNMENT AND ORIGIN: DIVISIONS OF THE AUSTRALIAN EXPORT AND IMPORT COMMODITY CLASSIFICATIONS, 1974-75—

continued

(\$'000 f.o.b.)

United States of South Africa, Republic of U.S.S.R. Sweden United Kingdom America Div. Imports Exports Imports Exports **Imports** Exports Imports Exports **Imports** Exports No. 5,436 919 126 6,421 1,862 3,225 2,355 00 2,050 142 2,692 220,886 1,413 οĭ 9,692 1 175 33,942 182 567 02 03 241 5,147 28 682 82S 795 37,114 104 2,052 1,055 256 105 99,730 284 19 9 04 05 1,809 859 6,989 30,047 11 4,039 i 14,039 42,082 06 2 9 20 36,542 165,782 309 3 07 415 47 3 141 1,535 767 424 29 2,782 3 116 89 2,347 08 2,043 13,725 2,789 20 1,329 09 52 4 13 39 1,608 2,673 ż 31 6 11 12 21 22 1.644 107 18,654 . . 185 450 3,481 534 1,198 1,105 17 196 826 . . i3 86 23 24 25 26 902 5,506 19,989 13,763 . . · ; 72 11,471 1,041 192 2,675 283 118 24,698 2,058 9,707 10,899 98,485 323 2,242 27 4,729 208 1,021 486 6.194 938 28 1,931 906 1,761 431 41,843 80 69,249 148 2,603 3,701 5,727 3,715 325 317 270 1,847 28,884 3,608 565 463 10 . . 32 85 16,005 33 591 69 12 3,027 (a) (a) (a) 1,196 (a) 775 50 34 (a) 7,176 216 . . 41 200 80 403 42 1,377 480 1,772 322 43 29 32 276 658 850 91,773 13,558 1,187 10 889 4,201 39,477 139,128 194 . . 69 635 174 7 628 53 54 55 180 866 1 57 163 11,042 96 7 2,513 24 17,366 . . 671 156 1,582 242 30,815 7,240 80 69 85 10.640 18 27 47 5,965 56 57 2,952 1.821 164 16 547 . . 46,024 1,268 343 906 241 3,571 49,025 264 58 135 9,323 59 311 221 681 31,618 38,621 . . 1,085 23,018 7 27 2,014 5,695 28,534 54 214 61 146 20 404 32 3 821 . . 62 162 320 4 87 642 1,268 63 64 124 379 713 7 1,163 383 72 1,470 45,257 ٠. 14,062 16,629 229 6 357 95 48,852 1,842 1,627 470 1.278 61,892 26,916 703 6 18 404 65 1,161 48,832 19,419 20,385 13,394 43,551 507,593 117,630 3,293 66 67 811 3,711 8,067 24,305 34,113 8,024 16,539 4,870 575 19,307 12,512 45,781 269,649 45 7,970 419 4,550 14,997 910 2,401 1.357 322 4.093 143,687 3,990 649 1.339 68 69 71 72 73 8,645 46,591 18,789 698 15,422 5,572 25,210 1,604 2,849 950 12,550 1,835 15 134,633 144,749 91 66 i 45,372 8,269 12,276 188,136 2 3,425 4,652 1,064 10 17 1,876 2,078 81 55 28 11 433 88 509 38 39 . . i ίó 485 110 83 11 11 1,359 3,250 179 119 1,162 84 261 391 19,604 331 85 285 35 12 3,982 . . 237 161 3,786 5,970 4,713 4,827 2,015 1,310 44,767 105,231 86 325 438 169 141 108,752 89 1.850 119 1,938 7,382 27,625 117 2.547 9A(b) . 609 549 30,880 6,189 426,242 797,962 1,609,679 243,022 34.427 182,216 1,206,630 97,034 43,091 187 154 1,013 48,596 7.796 33,534 58,502 64 9R 838 827 6,376 831,496 1,668,181 243,086 34,581 183,229 474,838 1,214,426 97,861 43,930

⁽a) Included in Division 9A.

⁽b) Includes Division 34 (Exports only).

Trade with eastern countries

Details of exports to and imports from eastern countries are shown in the following table. Further information for principal eastern countries, by divisions of the Australian Export and Import Commodity Classifications, is shown in the tables on pages 340-5.

TRADE OF AUSTRALIA WITH EASTERN COUNTRIES, BY COUNTRY OF CONSIGNMENT OR ORIGIN (\$'000 f.o.b.)

| | | (* ' | ,00 1.0.5., | | | | |
|-------------------------------|----------|-------------|-------------|-----------|-----------|-----------|-----------|
| | | Exports | | | Imports | | |
| Country | | 1972-73 | 1973-74 | 1974-75 | 1972-73 | 1973-74 | 1974-75 |
| Bangladesh | | 11,802 | 33,720 | 42,364 | 6,222 | 9,710 | 7,636 |
| Bhutan | | | 20 | 46 | 8 | | |
| Brunei | | 594 | 469 | 1,089 | 971 | | |
| Burma, Socialist Republic of | | 2,146 | 2,262 | 9,191 | 219 | 230 | 220 |
| China (excl. Taiwan Province | e) | 62,847 | 162,550 | 253,967 | 49,922 | 71,857 | 81,150 |
| Taiwan Province | ٠ | 69,788 | 76,491 | 80,950 | 54,342 | 114,048 | 113,103 |
| Hong Kong | | 94,881 | 114,074 | 105,179 | 80,148 | 159,603 | 172,240 |
| India | | 37,396 | 99,300 | 83,160 | 31,678 | 52,876 | 57,840 |
| Indonesia | | 71.622 | 106,467 | 175,251 | 13,597 | 16,550 | 18,693 |
| Japan | | 1,932,316 | 2,158,141 | 2,396,265 | 738,950 | 1,084,968 | 1,420,862 |
| Khmer, Republic of . | | . 984 | 648 | 347 | 127 | 153 | 103 |
| Korea, Democratic People's F | Republic | of 286 | 13,330 | 7,522 | 69 | 56 | 269 |
| Korea, Republic of | • | . 52,895 | 54,772 | 122,435 | 10,434 | 31,346 | 48,369 |
| Laos | | . 155 | 180 | 506 | | 1 | , |
| Macao | | . 50 | 54 | 56 | 56 | 786 | 4,497 |
| Malaysia | | . 97,216 | 117,637 | 194,370 | 38,445 | 69,565 | 58,800 |
| Nepal | | . 495 | 159 | 610 | 83 | 70 | 86 |
| Pakistan, Islamic Republic of | f | . 7,122 | 7,969 | 86,490 | 4,576 | 12,282 | 5,386 |
| Philippines | | 49,306 | 79,228 | 99,721 | 7,786 | 16,234 | 24,14 |
| Singapore | | . 131,808 | 147,677 | 206,480 | 40,069 | 82,082 | 126,90 |
| Sri Lanka | | . 10,950 | 15,390 | 45,148 | 9,620 | 9,448 | 12,834 |
| Thailand , | | . 35,864 | 50,627 | 49,444 | 7,110 | 9,922 | 16,150 |
| Timor | | 1,186 | 1,140 | 2,274 | ., | 4 | |
| Viet Nam, Democratic Repu | blic of | | 533 | 1,865 | | | `* |
| Viet Nam, Republic of . | | . 8,838 | 8,087 | 9,634 | 34 | 562 | 57 |
| Total | | . 2,683,557 | 3,250,925 | 3,974,364 | 1,094,466 | 1,742,353 | 2,169,873 |

Ships' and aircraft stores

Ships' and aircraft stores loaded on overseas ships and aircraft are excluded from exports. The value of these stores is shown in the table below.

STORES LOADED ON BOARD OVERSEAS VESSELS AND AIRCRAFT: AUSTRALIA (\$A'000 (.o.b.)

| Stores | | | | | 1 | 1972–73 | 1973–74 | 1974-75 |
|--------------------|--------|--------|------|---------------|---|---------|---------|---------|
| Cigarettes, cigars | and t | obacco | | - | | 752 | 700 | 764 |
| Fuel, lubricating | | | | | | 41,701 | 69,938 | 135,903 |
| Foodstuffs for hi | uman (| consum | ptio | n— | | • | • | - |
| Meats . | | | ٠. | | | 1,882 | 2,123 | 2,463 |
| Sugar | | | | | | 36 | 39 | 46 |
| Milk and creat | m, pre | served | | | | 36 | 31 | 38 |
| Butter . | • | | | | | 70 | 32 | 40 |
| Cheese . | | | | | | 40 | 34 | 39 |
| Eggs in shell | | | | | _ | 137 | 110 | 156 |
| Seafoods . | | | | | | 295 | 282 | 306 |
| Prepared grain | ıs . | - | | | | 68 | 135 | 234 |
| Vegetables . | | | | | · | 384 | 460 | 679 |
| Fruit | | • | • | • | • | 201 | 191 | 224 |
| Tea | • | • | • | • | • | 9 | 6 | 4 |
| Other. | • | · | • | · | • | 795 | 910 | 1,544 |
| Fodder | · | • | • | · | • | 141 | 157 | 199 |
| Alcoholic bevera | ges. | • | • | • | • | 2,138 | 2,072 | 2,616 |
| Other ships' stor | | • | ٠ | • | • | 6,572 | 7,072 | 14,374 |
| - | · · · | • | • | • | • | • | • | • |
| Total . | • | • | • | • | • | 55,257 | 84,292 | 159,629 |

Overseas trade at customs ports

The following table shows the value of exports and imports at customs ports of Australia, and the totals for each State and Territory.

OVERSEAS TRADE: CUSTOMS PORTS, AUSTRALIA, 1974-75 (\$'000 f.o.b.)

| Port or customs station | Exports | Imports | Port or customs station | Exports | Import: |
|---|-----------------|-----------------|---|-----------|----------|
| New South Wales- | | | South Australia—continued | | |
| Sydney | 1.139.152 | 2.717.327 | Port Wallaroo | 46,920 | 1,080 |
| Sydney | 5,075 | 106,993 | Whyalla | 92,304 | 7,309 |
| Byron Bay | | | Woomera | 55 | 50 |
| Coff's Harbour (including Bal- | | | Parcels Post, Adelaide | (a) | 3,65 |
| lina) | • • | | Total South Australia . | 764,410 | 482,077 |
| Kingsford-Smith Airport Newcastle (including Port | 191,591 | 478,552 | Western Australia— | , | |
| Stephens) | 417,114 | 82,553 | Fremantle | 956,570 | 370,418 |
| Port Kembla | 214,839 | 87,485 | Albany | 78,622 | 8,31 |
| Richmond | 12 | 1,251 | Barrow Island | | ٠. |
| Twofold Bay (including Eden). | 11,221 | (b) | Broome | 15,055 | 1,77 |
| Twofold Bay (including Eden). Parcels Post, Sydney | (a) | 20,620 | Bunbury | 48,523 | 8,46 |
| Total New South Wales . | 1,979,005 | 3,494,781 | Busselton | 5,831 | 1,88 |
| | | | Carnarvon | | |
| Victoria— | | | Derby | 9,608 | 1,23 |
| Melbourne | 1,246,044 | 2,367,430 | Esperance . | 36,562 | 2,74 |
| Geelong | 222,885 | 134,993 | Exmouth (North West Cape) . | 183 | 82 |
| Melbourne Airport . | 84,984 | 254,290 | Geraldton | 98,947 | 3,88 |
| Portland | 20,509 | 9,969 | Dampier (King Bay) | 277,160 | 24,05 |
| Westernport | 122,406 | 6,409 | Kwinana | 18,509 | 95,06 |
| Farcels Post, Melbourne . | (a) | 20,320 | Perth | 9,312 | |
| Total Victoria | 1,696,828 | 2,793,411 | Perth Airport Onslow | 9,444 | 13,67 |
| | 1,050,020 | 2,775,411 | Port Walcott (including Point | •• | |
| Queensland— | | | Samson) | : | 15,29 |
| Brisbane | 571,437 | 472,215 | Port Hedland | 281,164 | 26,34 |
| Bowen | 4,312 | 1 | Useless Loop | 616 | : |
| Brisbane Airport | 13,845 | 16,987 | Wyndham | 10,141 | 1,26 |
| Bundaberg | 75,653 | 16 | Yampi Sound (Cockatoo Is- land) | 02.026 | |
| Cairns (including Cairns Air- | 107 110 | 4 500 | Parcels Post, Perth | 23,835 | 2 10 |
| port) | 127,440 561 | 4,508 | raiceis rost, rettii | (a) | 2,19 |
| Cape Flattery | 289,622 | 41,829 | Total Western Australia . | 1,880,082 | 577.41 |
| Gladstone | 196,244 | | | 1,000,002 | 377,41 |
| Innisfail | 71,126 | • • | Tasmania— | | |
| Mackay | 204,696 | 8,230 | Hobart (including Cambridge | | |
| Maryborough (including Uran- | | 0,200 | Airport and Hobart Alighting | | |
| gan) . | | 126 | Area) | 83,532 | 50,35 |
| Rockhampton (including air- | | | Burnie (including Wynyard Air- | | |
| port and Port Alma) | 11,168 | 924 | port) | 54,535 | 23,37 |
| Thursday Island | 1,015 | 316 | Devonport (including Devon- port Airport and Ulverstone) | 10.177 | |
| Townsville (including airport). | 440,656 | 28,760 3,660 | Lauraceton (including Laur | 12,167 | 5,32 |
| Weipa | (a) (a) | 2,480 | Launceston (including Laun- ceston Airport and Beauty | | |
| Parcels Post, Brisballe | (4) | 2,400 | Point) | 50.049 | 21,559 |
| Total Queensland | 2,007,775 | 580,051 | Port Latta | 21,638 | 21,33. |
| | | | Port Stanley | | |
| South Australia— | | | Spring Bay | 4,233 | |
| Port Adelaide (including Sten- | *** *** | | Parcels Post | (a) | (b |
| house Bay) | 338,930 | 352,864 | Tatal Tassania | 226 154 | 100 |
| Adelaide Airport | 18,944 | 26,173 | Total Tasmania | 226,154 | 100,61 |
| Adelaide City | 15 72: | • • • | N | | |
| Ardrossan | 15,751 | • • | Northern Territory— | | |
| Cape Thevenard | 35,967 | | Darwin (including Darwin Air- | | |
| Edithburgh | 1.940 | • • | port, Groote Eylandt and | 117,064 | 48,89 |
| Port Augusta | | • • | Gove) | 117,004 | 40,07 |
| Port Giles | 5,506 91,230 | 3,398 | Australian Capital Territory— | | |
| Port Disis (including Port Cor. | 91,230 | 3,370 | Canberra | 1.445 | 5,84 |
| Port Pirie (including Port Ger- mein) | 115,587 | 3,059 | Canocita | 1,773 | 5,04 |
| Port Stanvac | 1,276 | 84,489 | Grand Total | 8,672,762 | 8.083.09 |
| | | | , | | |

⁽a) Included with main port.

⁽b) Included with respective port.

Movement of bullion and specie

The following table shows the values of gold and silver bullion and specie, and of bronze specie, exported from and imported into Australia.

EXPORTS AND IMPORTS OF BULLION AND SPECIE: AUSTRALIA (\$'000 f.o.b.)

| | Exports | | | Imports | | |
|--|---------------|---------------|-----------------|--------------|--------------|-----------------|
| | 1972-73 | 1973–74 | 1974–75 | 1972–73 | 1973–74 | 1974-75 |
| Gold—Bullion(a) Specie | 24,477 113 | 33,402 785 | 43,122 1,087 | 5,443 155 | 7,468 861 | 10,180 3,125 |
| Total gold | 24,590 | 34,187 | 44,209 | 5,598 | 8,329 | 13,305 |
| Silver—Bullion(a) Specie | 9,156 74 | 9,034 135 | 14,921 83 | 101 153 | 199 102 | 113 1,037 |
| Total silver | 9,230 | 9,169 | 15,004 | 254 | 301 | 1,150 |
| Other (including bronze and cupro-nickel)—Specie . | 625 | 702 | 987 | 65 | 76 | 30 |
| Total— Australian Produce Re-exports | 34,109 336 | 44,044 14 | 52,071 8,129 | •• | •• | |
| Grand total | 34,445 | 44,058 | 60,200 | 5,917 | 8,706 | 14,485 |

(a) Includes matte.

The following table shows the exports and imports of bullion and specie to and from various countries.

EXPORTS AND IMPORTS OF BULLION AND SPECIE, BY COUNTRY OF CONSIGNMENT OR ORIGIN, 1974-75

(\$'000 f.o.b.)

| | | Exports | | | <i>Imports</i> | | |
|------------------------------|--|---------|--------|--------|----------------|--------|--------|
| Country | | Bullion | Specie | Total | Bullion | Specie | Total |
| Fiji | | 65 | 104 | 169 | 7,598 | | 7,598 |
| Germany, Federal Republic of | | 1,311 | 4 | 1,315 | 5 | 7 | 12 |
| Hong Kong | | 13,622 | | 13,622 | 170 | | 170 |
| Japan | | 8,405 | | 8,405 | | | |
| Malaysia | | 190 | | 190 | 10 | | 10 |
| New Zealand | | 1,714 | 1,009 | 2,723 | 29 | 2 | 31 |
| Papua New Guinea | | 16 | 521 | 537 | 2,460 | 123 | 2,583 |
| Singapore | | 488 | | 488 | · | 3 | 3 |
| Solomon Islands | | | 133 | 133 | | • • | |
| Switzerland | | 410 | | 410 | | 403 | 403 |
| United Kingdom | | 30,556 | 3 | 30,559 | 5 | 1,105 | 1,110 |
| United States of America . | | | 258 | 258 | 11 | 545 | 556 |
| Other Countries | | 1,266 | 125 | 1,391 | | 1,973 | 1.973 |
| Australia re-imported . | | | •• | • • • | 5 | 31 | 36 |
| Total | | 58,043 | 2,157 | 60,200 | 10,293 | 4,192 | 14,485 |

Total import clearances, dutiable clearances, and customs duties collected

The following table shows the value of total import clearances, total dutiable clearances, and the customs duties collected, together with the ratio of total dutiable clearances to total clearances.

TOTAL IMPORT CLEARANCES, DUTIABLE CLEARANCES, AND CUSTOMS DUTIES

| | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|---------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|
| Total import clearances | \$'000 | 4,103,786 | 3,976,345 | 4,132,983 | 6,015,035 | 7,976,280 |
| Total dutiable clearances | , ,, | 2,005,478 | 1,929,319 | 1,804,803 | 2,329,826 | 3,030,229 |
| Total customs duties collected . | , ,, | 503,686 | 506,905 | 537,544 | 621,864 | 857,386 |
| Ratio of dutiable clearances to total | ** | - | • | • | • | • |
| clearances | per cent | 48.9 | 48.5 | 43.7 | 38.7 | 38.0 |
| Ratio of duties collected to dutiable | : | | | | | |
| clearances | ,, | 25.1 | 26.3 | 29.8 | 26.7 | 28.3 |
| | | | | | | |

Overseas trade in calendar years

For the purpose of comparison with countries which record overseas trade in calendar years, the following table has been compiled to show estimates of Australian exports and imports on a calendar year basis.

OVERSEAS TRADE IN CALENDAR YEARS, AUSTRALIA (\$'000 f.o.b.)

| | | | Merchandis | e | Non-merci | handise | Total | | |
|------|--|--|------------|-----------|-----------|---------|---------|-----------|-----------|
| Year | | | | Exports | Imports | Exports | Imports | Exports | Imports |
| 1971 | | | | 4,471,998 | 4,085,975 | 126,825 | 53,149 | 4,598,823 | 4,139,124 |
| 1972 | | | | 5,303,919 | 3,826,249 | 128,185 | 50,809 | 5,432,104 | 3,877,058 |
| 1973 | | | | 6,590,153 | 4,786,732 | 147,121 | 53,017 | 6,737,272 | 4,839,749 |
| 1974 | | | | 7,509,538 | 7,705,050 | 175,076 | 64,037 | 7,684,614 | 7,769,087 |
| 1975 | | | | 8,829,562 | 7,506,561 | 233,402 | 127,532 | 9,062,964 | 7,634,093 |

Excise

Although excise goods have no immediate bearing on overseas trade, the rate of excise duty is in some cases related to the import duty on similiar goods. Moreover, as the Excise Acts are administered by the Bureau of Customs, it is convenient to publish here the quantities of Australian produce on which excise duty has been paid. Particulars of customs and excise revenue are shown in the chapter Public Authorities Finance. The following table shows the quantities of spirits, beer, tobacco, etc., on which excise duty was paid in Australia.

QUANTITIES OF PRINCIPAL EXCISABLE GOODS ON WHICH EXCISE DUTY WAS PAID: AUSTRALIA

| Article | | | | | 1973-74 | 1974-75 | Article 1973-74 | 1974-75 |
|-------------------|---------|-------|-------|-------|----------------|---------------|--|-------------|
| | | | | | '000 litre | '000 litre | '000 litre | |
| Beer . | | | | | 1,824,278 | 1,884,978 | Petrol— | inte |
| | • | • | • | • | 1,02.,2.0 | -,, | Aviation gasoline (by-law)(a). 53,644 | |
| | | | | | | | Aviation gasoline—Other(a) . 73 | |
| | | | | | '000 | '000 | Gasoline | 12,503,983 |
| | | | | | lal | l al | Total petrol 12,167,182 | 12,594,293 |
| | | | | | 1 ai | ı aı | Total petrol | 12,394,293 |
| Spirits- | | | | | | | Mineral turpentine 23 | 11 |
| Brandy | | | | | 3,382 | 2,925 | | |
| Gin . | | | • | | 777 | 718 926 | Aviation turbine kerosene(a) . 847,241 | 924,665 |
| Whisky | • | • | • | • | 1,057 1,511 | 1,354 | Other kerosene 516 | 4,066 |
| Rum . Liqueurs | • | • | • | • | 398 | 345 | Other kerosene | 4,000 |
| Vodka | • | : | • | : | 643 | 659 | Diesel fuel (as defined by by-law) 1,197,038 | 1,229,914 |
| Flavoured | spirit | uous | lique | ors . | 224 | 208 | | |
| Other . | ٠. | | ÷ | | 11 | 8 | | doz. packs |
| | | | | | 0.000 | 7141 | '000 | |
| Total : | spirit. | (poi | able) | • | 8,003 | 7,14 <i>1</i> | Playing cards 160 | 149 |
| | | | | | | | 60 papers | 60 papers |
| | | | | | | | or tube: | or tubes |
| | | | | | | | '000 | |
| | | | | | '000 kg | '000 kg | Cigarette papers and tubes . 58,555 | 3,344,827 |
| Tobacco | • | ٠ | • | • | 2,426 | 2,270 | matche | matches |
| | | | | | | | 'ooc | |
| | | | | | | | Matches | |
| | | | | | | | • | , |
| Cigars . | • | • | • | | 129 | 121 | | '000 tonnes |
| | | | | | | | Coal | 60,137 |
| | | | | | | | '000 do: | '000 doz |
| | | | | | | | | containers |
| Cigarettesr | mach | ine-m | ade | | 27,871 | 28,498 | Canned fruit 8,890 | |

⁽a) Includes supplies to Commonwealth Government on which excise was paid. During the years 1973-74 and 1974-75 refunds were made on 238,544,108 litres and 262,918,250 litres respectively.

PRIVATE OVERSEAS INVESTMENT

Surveys of overseas investment have been conducted since 1947-48 to obtain particulars of certain types of private capital flows to and from Australia. The surveys, when supplemented by other information, provide statistics of overseas investment in companies in Australia and in Australian public authority securities repayable in Australian currency, as well as statistics of Australian investment in companies overseas and in foreign government securities. Particulars of investment income from most of those classes of investment are also obtained from the surveys.

Certain types of private overseas investment are not included in the statistics which follow. Investment in real estate (except when made through companies) and loans between Australian individuals and non-resident individuals are not covered. Nor are changes in short-term liabilities between exporters and importers in Australia and overseas covered, except in so far as they arise from exports and imports between branches or subsidiaries and their home offices or parent companies. In this case they are included in the figures of investment in branches or subsidiaries.

In the tables which classify investment in Australia according to country of origin, the investment is shown as an inflow from the country which is the immediate source of the capital. Income payable overseas is classified on a similar basis, i.e. it is classified to the country to which it is directly payable.

Remittances between Australia and overseas by Australian life insurance companies are regarded as capital transactions made to bring assets located in overseas countries into line with commitments in those countries, and are included as a flow of investment between Australia and overseas. Similar considerations apply to overseas life insurance companies with branches in Australia.

The following are explanatory notes relating to some of the terms used in the tables.

Branches. Offices in Australia of companies incorporated overseas or offices in separate overseas countries of companies incorporated in Australia, the value of whose net liabilities to head office exceeds \$A10,000 or whose annual net profit or loss exceeds \$A10,000. Australian branches of companies overseas include other Australian offices of companies overseas where a branch register is maintained in Australia but exclude companies in Australia which are incorporated overseas but which have no business operations in Australia other than an account with a bank in Australia. Overseas branches of companies in Australia exclude companies overseas which are incorporated in Australia but which have no business operations overseas other than an account with a bank overseas. However, the short-term assets represented by the bank accounts overseas are included as Australian portfolio investment overseas for those companies included in the surveys of overseas investment.

Companies. Incorporated and unincorporated businesses and other organisations. Excludes companies which have no business operations in a country other than an account with a bank in that country.

Direct investment. All investment in branches and subsidiaries by direct investors and other related companies except branch liabilities, for interest, goods and services, to related companies overseas other than head offices of the Australian branches.

Overseas. Countries other than Australia. Includes Norfolk Island and other external territories of Australia. Overseas branches and subsidiaries of companies in Australia are also regarded as being resident overseas.

Portfolio investment and institutional loans. Investment in companies other than direct investment, i.e. investment other than investment by related companies in branches and subsidiaries.

Subsidiaries. An Australian subsidiary of a company overseas is a company in Australia, other than a branch, in which:

- (a) a single overseas resident (individual or company) or a group of related companies in the one overseas country holds 25 per cent or more of the equity, or, if this condition does not apply,
- (b) residents of one overseas country combined hold 50 per cent or more of the equity, together with other companies in Australia in which the Australian subsidiary holds, directly or indirectly, more than 50 per cent of the equity.

An overseas subsidiary of a company in Australia is a company overseas other than a branch, in which a company in Australia holds 25 per cent or more of the equity. In principle, companies overseas in which the combined Australian shareholding is 50 per cent or more would also be included but it is not practicable to ascertain the total investment by Australian shareholders in individual companies overseas.

Undistributed profits of subsidiaries. Equity of direct investors in the net earnings of a company during the year, less tax payable on those earnings and less dividends declared during the year whether relating to earnings of the same year or not. Net earnings are in general based on income for taxation purposes. However, certain deductions allowable for taxation purposes (e.g. mining exploration expenditure, Export Market Development Allowance, Investment Allowance for Manufacturing Plant, previous year's losses, etc.) are not deducted in calculating net earnings. Undistributed profits of Australian subsidiaries also includes undistributed income accruing to the subsidiary from related companies in Australia.

Unremitted profits of branches. Net earnings (after tax) during the year, less remittances of earnings to the head office during the year, irrespective of the year to which the earnings relate. Net earnings of branches are in general similar to those for subsidiaries. Also included is undistributed income accruing to the branch of other companies related to the branch.

The annual bulletin *Insurance and Other Private Finance* (5.15) and the Annual Bulletin of *Overseas Investment* (5.20) contain additional figures relating to overseas investment, including a longer range of years covered, and also a more detailed description of the figures.

Private overseas investment in companies in Australia and investment income payable overseas by companies in Australia

The inflow of private overseas investment in Australia in recent years is shown in the next three tables.

INFLOW OF OVERSEAS INVESTMENT IN COMPANIES IN AUSTRALIA BY CATEGORY OF INVESTMENT

(\$ million)

| | D | irect in | vestment | | | | | |
|-----------|------|-----------------------------------|-------------------------------|--|-------------------------------|-----------------|--|-------|
| | A | ustralia | n branches | Australian : | subsidiaries | | D (5.1) | |
| Year | - | Un- mitted profits (net) | Other direct investment | Un- distributed profits (net) | Other direct investment | Total direct | Portfolio investment and institutional loans | Total |
| 1969-70 . | | - 10 | 156 | 225 | 356 | 728 | 274 | 1,001 |
| 1970-71 . | , | 12 | 151 | 233 | 507 | 903 | 655 | 1,559 |
| 1971-72 . | | 21 | 129 | 201 | 523 | 873 | 600 | 1,473 |
| 1972-73 . | | 50 | 41 | 263 | - 1 | 353 | 104 | 457 |
| 1973-74 . | | 19 | 16 | 412 | 132 | 578 | -106 | 472 |
| 1974-75p | | 7 | 16 | 202 | 346 | 571 | 273 | 844 |

Minus sign (-) denotes outflow.

INFLOW OF OVERSEAS INVESTMENT IN COMPANIES IN AUSTRALIA, BY COUNTRY AND BROAD CATEGORY OF INVESTMENT

| Year | | | United Kingdom | U.S.A. | Canada | Japan | E.E.C. (a) | Other countries | Total |
|--|---------------------------------------|----------|---|--|---|-------------|--|--------------------|---|
| | | | 1 | UNDISTRII | BUTED IN | СОМЕ | | | |
| 1969-70 . | | <u> </u> | . 144 | 62 | 11 | | - 8 | 7 | 215 |
| 1970-71 . | | | . 138 | 90 | 15 | – 3 | - 1 | 6 | 245 |
| 1971-72 . | | | . 99 | 113 | 20 | – 1 | - 5 | – 5 | 221 |
| 1972-73 . | | | . 156 | 146 | 12 | 6 | 2 | - 9 | 313 |
| 1973-74 . | | | . 190 | 218 | 18 | 4 | -11 | 11 | 431 |
| 1974-75p | • | | . 74 | 175 | 2 | 5 | - 32 | 14 | 210 |
| | | | ОТ | HER DIR | ECT INVE | STMENT | | | |
| 1969-70 . | | | . 94 | 296 | 23 | 21 | 41 | 37 | 512 |
| 1970-71 . | | | . 156 | 238 | 23 | 65 | 50 | 128 | 658 |
| 1971–72 . | | | . 155 | 250 | 12 | 60 | 38 | 136 | 652 |
| 1972–73 . | | | . 58 | -28 | 8 | -20 | -10 | 32 | 40 |
| 1973-74 . | | | . 76 | 37 | 12 | 31 | 26 | -35 | 147 |
| 1974–75p | • | | . 74 | 45 | - 1 | 45 | 49 | 149 | 362 |
| | | | | | | | | | |
| | | POR | TFOLIO INV | ESTMENT | AND IN | STITUTIO | NAL LO | ANS | |
| 1060.70 | | POR | | | | OITUTITE | | ANS | 27.4 |
| 1969-70 . | • | | . 111 | - 3 | – 5 | STITUTIO | 171 | ANS | |
| 1970-71 . | · | POR | . 111 . 255 | - 3 141 | - 5 18 | STITUTIO | 171 242 | ANS | 655 |
| | : | | . 111 | - 3 | – 5 | STITUTIO | 171 | ANS | 655 |
| 1970-71 . | : | | . 111 . 255 . 158 | - 3 141 194 | - 5 18 8 | STITUTIO 64 | 171 242 | 118 | 655 600 |
| 1970–71 . 1971–72 . 1972–73 . | : | | . 111 . 255 . 158 | - 3 141 194 -37 | - 5 18 8 - 5 | | 171 242 239 | | 655 600 104 |
| 1970–71 . 1971–72 . | · · · · · · · · · · · · · · · · · · · | | . 111 . 255 . 158 | - 3 141 194 | - 5 18 8 | 64 | 171 242 239 | 118 | 274 655 600 104 -106 273 |
| 1970–71 . 1971–72 . 1972–73 . 1973–74 . | • | | . 111 . 255 . 158 108 150 | - 3 141 194 - 37 - 76 133 | - 5 18 8 - 5 -12 | 64 24 | 171 242 239 71 84 | 118 | 655 600 104 106 |
| 1970–71 1971–72 1972–73 1973–74 1974–75p | | | . 111 . 255 . 158 108 150 | - 3 141 194 - 37 - 76 133 | - 5 18 8 - 5 -12 12 | 64 24 | 171 242 239 71 84 98 | 118 | 655 600 104 - 106 273 |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 . 1974-75p | | | . 111 . 255 . 158 108 150 | - 3 141 194 - 37 - 76 133 | - 5 18 8 - 5 -12 12 | 64 24 | 171 242 239 71 84 98 | 118 | 655 600 104 - 106 273 |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 . 1974-75p 1969-70 . 1970-71 . | | | . 111 . 255 . 158 108 150 45 | - 3 141 194 - 37 - 76 133 | - 5 18 8 - 5 -12 12 FOTAL | 64 24 | 171 242 239 71 84 98 | 118 | 1,001 1,559 |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 . 1974-75p | | | . 111 . 255 . 158 108 150 45 | - 3 141 194 - 37 - 76 133 | - 5 18 8 - 5 -12 12 | 64 24 | 171 242 239 71 84 98 | 118 | 1,001 1,559 |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 . 1974-75p 1969-70 . 1970-71 . | | | . 111 . 255 . 158 108 150 45 | - 3 141 194 -37 -76 133 | - 5 18 8 - 5 -12 12 FOTAL | 64 24 | 171 242 239 71 84 98 | 118 | 1.001 1,473 |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 . 1974-75p 1969-70 . 1970-71 . 1971-72 . | | | . 111 . 255 . 158 108 150 45 | - 3 141 194 - 37 - 76 133 7 355 469 558 | - 5 18 8 - 5 -12 12 FOTAL 29 55 40 | 64 24 14 | 171 242 239 71 84 98 268 487 463 | 118 24 61 | 655 600 104 106 |

⁽a) Includes France, Federal Republic of Germany, Italy, Netherlands, Belgium, Luxembourg, Denmark, and Ireland from 1972-73 onwards.

Minus sign (—) denotes outflow.

PRIVATE OVERSEAS INVESTMENT

INFLOW OF DIRECT OVERSEAS INVESTMENT IN COMPANIES IN AUSTRALIA, BY INDUSTRY

(\$ million)

| Year | _ | | Primary production | Manu- facturing | Other industries | Total |
|-----------|---|--|------------------------|--------------------|---------------------|-------|
| 1969-70 . | | | 200 | 232 | 296 | 728 |
| 1970-71 . | | | 280 | 246 | 377 | 903 |
| 1971-72 . | | | 359 | 185 | 329 | 873 |
| 1972-73 . | | | 63 | 78 | 212 | 353 |
| 1973-74 . | | | 57 | 245 | 276 | 578 |
| 1974-75p | | | 53 | 272 | 246 | 571 |

The next three tables show investment income payable overseas by companies in Australia.

INVESTMENT INCOME PAYABLE OVERSEAS BY COMPANIES IN AUSTRALIA BY CATEGORY OF INCOME

| | | Direct investment income payable overseas by companies in Australia | | | | | | | | | | | | |
|-----------|--|---|-----------------------------|----------|-------------------------------------|---|-------------|---------------------|-----------------|--|--|--|--|--|
| | | | | | | Australian subsid | diaries | | | | | | | |
| | | | Austr | alian bi | ranches | | Distributed | d earnings | | | | | | |
| Year | | | Unremitted profits (net) | | Remitted profits and interest | Undistributed Dividena profits (net) payabl | | Interest payable | Total direct | | | | | |
| 1969-70 . | | | | 10 | 67 | 225 | 141 | 52 | 474 | | | | | |
| 1970-71 | | | | 12 | 83 | 233 | 131 | 63 | 523 | | | | | |
| 1971-72 . | | | | 21 | 81 | 201 | 134 | 87 | 523 | | | | | |
| 1972-73 . | | | | 50 | 108 | 263 | 203 | 88 | 712 | | | | | |
| 1973-74 . | | | | 19 | 128 | 412 | 203 | 87 | 849 | | | | | |
| 1974-75p | | | | 7 | 174 | 202 | 203 | 106 | 692 | | | | | |

| | | | | | | able overseas o estment and loans | on | |
|-----------|---|---|---|---|-----------|---|-------|----------------|
| Year | | | | | Dividends | Interest | Total | Grand total |
| 1969-70 . | | | | | 55 | 36 | 91 | 566 |
| 1970-71 . | | | | | 57 | 45 | 102 | 625 |
| 1971-72 . | | | | | 63 | 69 | 132 | 655 |
| 1972-73 . | | | | | 69 | 80 | 149 | 861 |
| 1973-74 . | | | | | 71 | 88 | 159 | 1,008 |
| 1974-75p | | | | | 71 | 129 | 200 | 892 |
| тэр | • | • | • | • | ,, | | 200 | ٠,٠ |

INVESTMENT INCOME PAYABLE OVERSEAS BY COMPANIES IN AUSTRALIA BY COUNTRY AND BROAD CATEGORY OF INCOME

| Year | | | | United ngdom | U.S.A. | Canada | Japan | E.E.C. (a) | Other countries | Total |
|--|---------------------------------------|-----------------------|-----------------------|---|----------------------------------|------------------------------|--------------|----------------------------------|--------------------|--|
| | | | | τ | JNDISTRI | BUTED IN | СОМЕ | | | |
| 1969-70 . 1970-71 . | | | | 144 138 | 62 90 | 11 15 | -2 -3 | -8 -1 | 7 | 21: 24: |
| 1971–72 . | : | Ċ | · | 99 | 113 | 20 | -1 | - 5 | – 5 | 22 |
| 1972-73 . | | | | 156 | 146 | 12 | 6 | 2 | -9 | 313 |
| 1973–74 . | | | | 190 | 218 | 18 | 4 | —11 | 11 | 431 |
| 1974–75p | • | • | ٠ | 74 | 175 | 2 | 5 | -32 | -14 | 210 |
| | | r | DISTR | IBUTEI | INCOM | E ON DIR | ECT INV | ESTMEN. | Γ | |
| 1969-70 . | | | | 96 | 134 | 7 | 5 | 6 | 11 | 25 |
| 1970-71 . | | | | 104 | 138 | 7 | 5 | 7 | 17 | 278 |
| 1971–72 . | | | | 91 | 165 | 6 | 9 | 7 | 23 | 30 |
| 1972–73 . | | | | 123 | 221 | 13 | 10 | 8 | 25 | 39 |
| 1973-74 | | | | 139 | 235 | 6 | 11 | 5 | 21 | 41 |
| 1974–75p | • | • | • | 127 | 299 | 12 | 13 | 9 | 24 | 483 |
| | | | | | | | | | | |
| | | IN | ICOM | | | PORTFOI UTIONAL | | STMENT | | |
| 1969-70 | | | ICOM | AN | ID INSTIT | TUTIONAL | | | | 9 |
| 1969-70 . | | | ICOM | 42 | ID INSTIT | TUTIONAL 1 | | 23 | | - |
| 1969-70 . 1970-71 . 1971-72 . | · : | : : : | | AN | ID INSTIT | TUTIONAL | | | | 10: |
| 1970-71 . 1971-72 . | : : | | | 42 44 51 | 25 26 34 | TUTIONAL 1 1 2 | LOANS | 23 32 44 | 35 | 10: 13: |
| 1970-71 . | : : | : : | : : : | 42 44 | 25 26 | TUTIONAL 1 1 | LOANS | 23 32 44 | 35 42 | 10: 13: 14: |
| 1970-71 . 1971-72 . 1972-73 . | · · · | | | 42 44 51 60 | 25 26 34 33 | 1 1 2 3 | LOANS | 23 32 44 | 35 42 58 | 10: 13: 14: 15: |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 | · · · · · · · · · · · · · · · · · · · | : : : : | | 42 44 51 60 56 | 25 26 34 33 29 35 | 1 1 2 3 2 | LOANS 2 5 | 23 32 44 16 24 | 42 | 10; 13; 14; 15; |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 | · · · · · · · · · · · · · · · · · · · | | : : : | 42 44 51 60 56 | 25 26 34 33 29 35 | 1 1 2 3 2 3 | LOANS 2 5 | 23 32 44 16 24 29 | 42 | 10; 13; 14; 15; 200 |
| 1970–71 . 1971–72 . 1972–73 . 1972–73 . 1973–74 1974–75p | · · · · · · · · · · · · · · · · · · · | | : : : | 42 44 51 60 56 67 | 25 26 34 33 29 35 | 1 1 2 3 2 3 TOTAL | LOANS 2 5 | 23 32 44 16 24 | 42 | 9 10: 13: 14: 15: 20: |
| 1970-71 . 1971-72 . 1972-73 . 1973-74 . 1974-75p . | | | : : : : : | 42 44 51 60 56 67 | 25 26 34 33 29 35 | 1 1 2 3 2 3 FOTAL | LOANS 2 5 | 23 32 44 16 24 29 | 42 | 10: 13: 14: 15: 20: 56: 62: |
| 1970-71 . 1971-72 . 1971-73 . 1973-74 . 1974-75p 1969-70 . 1970-71 . 1971-72 . | · · · · · · · · · · · · · · · · · · · | | : | 42 44 51 60 56 67 | 25 26 34 33 29 35 | 1 1 2 3 2 3 TOTAL | LOANS 2 5 | 23 32 44 16 24 29 | 42 | 10: 13: 14: 15: 20: |
| 1970-71 . 1971-72 . 1971-73 . 1973-74 . 1974-75p | · · · · · · · · · · · · · · · · · · · | : : : : : | : | 42 44 51 60 56 67 282 285 242 | 25 26 34 33 29 35 | 1 1 2 3 2 3 3 FOTAL 18 23 28 | LOANS 2 5 8 | 23 32 44 16 24 29 | 42 58 | 10. 13. 14' 15' 20' 560 62. 65. |

⁽a) Includes France, Federal Republic of Germany, Italy, Netherlands, Belgium, Luxembourg, Denmark, and Ireland from 1972-73 onwards.

(b) Not available for publication.

Minus sign (-) denotes outflow.

DIRECT INVESTMENT INCOME PAYABLE OVERSEAS BY COMPANIES IN AUSTRALIA, BY INDUSTRY

(\$ million)

| Year | | | rimary luction | Manu- facturing | Other industries | Total |
|----------|--|--|-------------------|--------------------|---------------------|-------|
| 1969–70 | | | 53 | 255 | 167 | 474 |
| 1970-71 | | | 134 | 240 | 149 | 523 |
| 1971-72 | | | 114 | 236 | 173 | 523 |
| 1972-73 | | | 182 | 284 | 246 | 712 |
| 1973-74 | | | 273 | 325 | 252 | 849 |
| 1974-75p | | | 294 | 259 | 139 | 692 |

Australian investment in companies overseas and investment income receivable from companies overseas

The outflow of Australian investment in companies in recent years and a classification by country in which the capital was invested are shown in the following two tables.

OUTFLOW OF AUSTRALIAN INVESTMENT IN COMPANIES OVERSEAS BY CATEGORY OF INVESTMENT

(\$ million)

| | | | | Dir | ect investmen | t | | Daniel Callia | |
|-----------|--|-------|-----------------------------|-------------------------------|-------------------------------------|-------------------------------|-------|---------------------------------------|----------------|
| | | Over | seas bro | nches | Overseas sul | sidiaries | | Portfolio investment | |
| Year | | profi | Unre- mitted ts (net) | Other direct investment | Undis- tributed profits (net) | Other direct investment | Total | and institu- tional loans(a) | Grand total |
| 1969-70 . | | | -6 | 4 | 20 | 108 | 125 | 6 | 131 |
| 1970-71 . | | | -8 | 12 | 25 | 39 | 68 | 12 | 80 |
| 1971-72 . | | | 10 | 24 | 36 | 70 | 120 | | 121 |
| 1972-73 . | | | -8 | 9 | 83 | 17 | 102 | 14 | 116 |
| 1973-74 | | | -2 | 52 | 102 | 34 | 186 | 16 | 201 |
| 1974-75p | | | -11 | 20 | 33 | 62 | 104 | 19 | 122 |

⁽a) Excludes portfolio investment in Papua New Guinea other than some long-term trade credit and short-term assets.

Minus sign (—) denotes inflow.

OUTFLOW OF AUSTRALIAN INVESTMENT IN COMPANIES OVERSEAS BY COUNTRY

| Year | | | K | United ingdom | New Zealand | U.S.A. and Canada | Papua New Guinea(a) | Other countries | Total |
|-----------|---|-----|---|------------------|----------------|-------------------------|---------------------------|--------------------|-------|
| 1969-70 . | | | | 35 | 10 | 5 | 72 | 10 | 131 |
| 1970-71 . | • | : | · | -1 | 21 | 9 | 36 | 15 | 80 |
| 1971-72 . | - | i i | | -11 | 26 | 10 | 63 | 32 | 121 |
| 1972-73 . | | - : | | -1 | 24 | 20 | (b) | (c)72 | 116 |
| 1973-74 | | | | 41 | 23 | 28 | (b) | (c)109 | 201 |
| 1974-75p | | | | 25 | 47 | 7 | <u>-6</u> | 50 | 122 |

⁽a) Excludes portfolio investment other than some long-term trade credit and short-term assets. (b) Not available for publication. (c) Includes Papua New Guinea.

The next two tables show income from direct investment receivable by Australian companies from companies overseas, and the countries from which it is receivable.

DIRECT INVESTMENT INCOME RECEIVABLE FROM OVERSEAS BY COMPANIES IN AUSTRALIA, BY TYPE OF COMPANY AND CATEGORY OF INCOME(a)

(\$ million)

| | | Oversea | is branches | Over subsi | seas diaries | |
|-----------|---------------------------------------|---|--|--|--|-------|
| Year | · · · · · · · · · · · · · · · · · · · | Unre- mitted profits (net) | Remitted profits and interest | Undis- tributed profits (net) | Dividends and interest receivable | Total |
| 1969–70 . | | -6 | 5 | 20 | 26 | 44 |
| 1970-71 . | | 8 | 6 | 25 | 27 | 49 |
| 1971-72 . | | -10 | 5 | 36 | 34 | 65 |
| 1972-73 . | | -8 | 16 | 83 | 36 | 127 |
| 1973-74 | | -2 | 19 | 102 | 66 | 185 |
| 1974-75p | | 11 | 20 | 33 | 53 | 95 |

⁽a) Details are not available of income receivable in Australia on either portfolio investment and institutional loans or on Australian holdings of foreign government securities.

Minus sign (---) denotes inflow.

DIRECT INVESTMENT INCOME RECEIVABLE FROM OVERSEAS BY COMPANIES IN AUSTRALIA, BY COUNTRY(a)

(\$ million)

| Year | | | _ | nited gdom | New Zealand | U.S.A. and Canada | Papua New Guinea(a) | Other countries | Total |
|-------------------|---|---|---|---------------|----------------|-------------------------|---------------------------|-----------------|-------|
| 1060 70 | | | | | 12 | , | 10 | | 4.4 |
| 1969–70. | • | • | • | 4 | 13 | 1 | 10 | 17 | 44 |
| 19 70-71 . | | | | 6 | 16 | (b) | 7 | (c)20 | 49 |
| 1971-72. | | | | 5 | 13 | 3 | 22 | 22 | 65 |
| 1972-73. | | | | 18 | 21 | 3 | (b) | (d)85 | 127 |
| 1973-74 | | | | 25 | 34 | 2 | (b) | (d)123 | 185 |
| 1974-75p | | | | 17 | 28 | 2 | 36 | 12 | 95 |

⁽a) Details are not available of income receivable in Australia on either portfolio investment and institutional loans or on Australian holdings of foreign government securities. (b) Not available for publication—included in 'Other countries'. (c) Includes U.S.A. and Canada. (d) Includes Papua New Guinea.

BALANCE OF PAYMENTS

Estimates of a country's balance of payments are prepared for the purpose of providing a systematic record in money terms of the economic transactions which take place over a period between that country and all other countries. Such records are essential to the examination of influences which external factors have on the domestic economy. The Australian economy is subject to fairly large fluctuations in export income, and it is also affected in important respects by variations in the level of foreign investment and the demand for imports. Consequently, these estimates have always assumed particular importance in this country.

Official estimates of Australia's balance of payments covering the period 1928-29 to 1930-31 were included in the Appendix to Year Book No. 24, 1931. Except for the war years (1939 to 1945), estimates have since been published annually. Detailed estimates are provided yearly in the publication Balance of Payments (8.1), which also provides a description of the various items included. A summarised statement of the principal current account items and capital movements is prepared and issued on a quarterly basis in the bulletin Balance of Payments.

In the form of presentation adopted for the Australian balance of payments estimates a basic distinction is made between 'current account' and 'capital account' transactions. Current account transactions may be defined as those involving changes in the ownership of goods or the rendering of services between residents of Australia and the rest of the world and include such items as exports, imports, shipping freights, dividends, profits and interest, travel, and government expenditure. The current account also includes the value of transfers in the form of gifts in cash or kind made or received by residents of Australia, both private and government, to or from the rest of the world. Capital account transactions may be defined as those involving claims to money and titles of investment between residents of Australia and those of another country and include government loan-raising operations overseas, investment by overseas residents in Australian companies, the investment of Australian residents in companies overseas, and changes in the level of Australia's foreign reserves.

By definition, the balance of payments on current account and the balance of payments on capital account during a given period must exactly offset one another. Errors and omissions, however, occur in the estimation of the amounts involved in various items in both the current and capital accounts, and, in addition, there are differences in timing between the statistical recording of trade and invisible transactions and the corresponding foreign exchange transactions. It is therefore necessary to introduce into the estimates a 'balancing item' which allows the identity between the current and capital account balances to be preserved. The 'balancing item' is included in the capital account, but, as mentioned above, it includes discrepancies in the current account and does not, as is frequently supposed, include only errors, omissions and timing differences related to capital transactions.

Details of the estimates are assembled from a variety of sources of which the following are the more important: (i) statistics of exports and imports obtained from Australian trade statistics; (ii) details of the import valuation adjustment obtained from a sample of the import warrants submitted to the Bureau of Customs in respect of imports into Australia; (iii) information on particular invisible current account items and capital movements obtained by regular inquiry from private organisations and government departments; (iv) details of receipts and payments of foreign exchange provided by the banking system; (v) information on profits remitted, undistributed income and private investment in companies provided by statistics of overseas investment collected by this Bureau; (vi) information on freight on imports and other items concerned with overseas transportation obtained from a sample of the import warrants submitted to the Bureau of Customs in respect of imports into Australia and from a survey conducted by the Australian Bureau of Statistics of overseas shipping and airline operations; and (vii) information supplied by the Reserve Bank of Australia on gold and other reserve assets of official and banking institutions.

Current account

The balance of payments on current account is arranged to show a series of items for each of which there is a credit and/or a debit entry. In most cases the credit entries represent transactions in goods and services, property income, and transfers, which result in receipts of foreign exchange, while the debit entries represent similar transactions which result in payments of foreign exchange. Some entries which do not entail movements of foreign exchange are also included, the principal examples being those for undistributed income and transactions, mainly in goods, in which the payments due are subsequently capitalised. These amounts are treated as credits or debits in the relevant sections of the current account, and as corresponding outflows or inflows in non-monetary items in the capital account. Transfers in kind provide a further example of transactions which do not require a movement of foreign exchange. The values of transfers received or provided in kind are shown as credits or debits respectively.

The largest items shown in the current account are exports and imports, and the difference between them represents the balance of trade. For balance of payment purposes, certain adjustments are made to the recorded trade statistics. Briefly, these adjustments are made to exclude those transactions for which there is no change of ownership between residents and non-residents of Australia and to include certain transactions for which there has been a change of ownership but for which customs entries are not required. In addition, a valuation adjustment is made to the recorded import statistics in order to remove the overstatement which results from the basis of valuation for customs duty. A full description of the adjustments was provided in the Appendix to the publication Balance of Payments (8.1), 1968-69. A full evaluation of the overall position on current account, however, occurs only after the invisible items have been taken into account. In value terms the most important of these are the transportation items. Entries appear on both the debit and credit sides, the principal component on the debit side being freight payable overseas on imports into Australia. The principal component on the credit side is expenditure by overseas carriers, which represents mainly overseas ships' expenditure for stevedoring, port charges, etc., incurred in loading and discharging

goods at Australian ports, and stores purchased in Australia. The items next in importance are those concerning income from property. Debit entries under this heading include dividends, profits, interest and royalties payable overseas, while the credit entries include similar details of amounts receivable by Australian residents. These items include undistributed income in respect of which, as mentioned above, no monetary movements occur. The remaining items are smaller than those mentioned above, and include travel, government transactions, transfers (including foreign aid made available by the Australian Government), and, on the credit side, the net value of Australian gold production.

Capital account

In the capital account, transactions are recorded on a net basis; that is, according to the net effect of all debit and credit entries relating to each item. Thus entries on the credit side represent a net increase in non-residents' assets in Australia or a net decrease in Australian assets overseas, while debit entries represent a net decrease in non-residents' assets in Australia or a net increase in Australian assets overseas.

Capital account transactions are grouped according to the sector of the Australian party to the the transactions. The government sector, therefore, includes all capital transactions of central, State, local and semi-government authorities with the exception of transactions of monetary institutions (which are included in the monetary sector), while the private sector covers transactions of all resident individuals and private institutions (again excepting monetary institutions). The monetary sector covers all banking institutions, including government-owned banks. Transactions of the monetary sector are further sub-divided into those of official and 'non-official' monetary institutions. Transactions of official institutions include changes in Australia's official reserve assets (consisting of gold, foreign exchange, the I.M.F. gold tranche and special drawing rights in the I.M.F.) and transactions between the Reserve Bank of Australia and foreign central monetary authorities and the I.M.F. Also included is an item, 19.3 Allocation of Special Drawing Rights. This the counterpart to the change in official reserve assets due to the allocation to Australia of S.D.R.s by the I.M.F. Such an entry is necessary in this case because without it there would be no corresponding credit to the increase in assets (debit) and the allocation would be reflected in an offsetting movement in the balancing item. 'Non-official' monetary institutions includes all other transactions of Australian monetary institutions.

In the government sector the most important items include transactions by non-residents in government securities domiciled overseas and in Australia and transactions involving changes in Australia's assets with and liabilities to international development institutions such as the International Bank for Reconstruction and Development and the Asian Development Bank. Other government transactions are largely a reflection of the net effect on the balance of payments of leads and lags between payments made overseas for items of equipment for the defence services or government airlines and the delivery of the equipment. In periods where payments exceed the value of deliveries a net debit results; in periods where the value of deliveries exceeds payments a net credit is recorded.

In the private sector the most important items are overseas investment in Australian companies, Australian investment overseas, and the transactions of marketing authorities. The figures for marketing authorities represent changes in the estimated value of commodity stock levels held overseas by, and in amounts owed by overseas debtors to, the principal Australian marketing authorities.

In the monetary sector the most important item is that which shows the net changes in Australia's official reserve assets.

The balancing item includes errors and omissions and timing differences, referred to on page 357.

Tables-Balance of payments

The following tables show particulars of:

- (i) the balance of payments; and
- (ii) the balance of payments by regions.

BALANCE OF PAYMENTS

BALANCE OF PAYMENTS: AUSTRALIA (\$ million)

| | | 1972–73 | | 1973-74 | | 1974–75 | |
|---|-----|------------|------------|------------|------------|------------|------|
| | | Credit | Debit | Credit | Debit | Credit | Debi |
| | | CURRENT | ACCOU | NT | - | | |
| Goods— | | | | | | | _ |
| 1 Exports f.o.b.(a) | | 6,010 | 3,808 | 6,688 | 5,753 | 8,434 | 7,66 |
| Balance of trade | | 2,202 | • • | 935 | • • | 772 | |
| nvisibles— | | | | • | | | |
| 3 Gold production 4 Transportation— | | 27 | • • | 30 | • • | 56 | |
| 4.1 Freight on imports(b) 4.2 Expenditure of overseas | • | •• | 426 | •• | 63.7 | •• | 80 |
| carriers 4.3 Other transportation | | 390 182 | 415 | 460 220 | 528 | 648 319 | 65 |
| 5 Travel | | 123 | 321 | 162 | 341 | 213 | 40 |
| 6 Government— | | | | | | | |
| 6.1 Australian government- | | | | | | | |
| 6.11 Defence expenditure | | •• | 49 | •• | 43 73 | •• | 10 |
| 6.12 Other expenditure 6.13 Services to non- | • | • • | 73 | • • | 13 | • • | • |
| residents | | 27 | | 24 | | 23 | |
| 6.2 Foreign governments' | | | | | | | |
| expenditure | • | 64 | •• | 65 | • • | 77 | |
| 7 Miscellaneous— | | | | | | | |
| 7.1 Business expenses . | | 90 | 156 | 82 | 205 | 93 | 19 |
| 7.2 Other | • | 45 | 79 | 48 | 66 | 59 | 11 |
| 8 Property income— | | | | | | | |
| 8.1 Direct investment— | | 25 | 302 | 99 | 424 | 33 | 2 |
| 8.11 Undistributed . 8.12 Distributed . | • | 75 51 | 302 404 | 99 87 | 415 | 83 | 41 |
| 8.2 Interest on government | • | ٥. | ,,,, | • | | | |
| loans | | • • | 82 | •: | 76 | | |
| 8.3 Royalties and copyright 8.4 Other | s . | 4 240 | 75 149 | 5 319 | 66 158 | 288 | 2 |
| 9 Government transfers— | | | | | | | |
| 9.1 Papua New Guinea . | _ | | 158 | | 197 | | 1 |
| 9.2 Other foreign aid . | • | ••• | 94 | •• | 93 | • • | 1 |
| 10 Private transfers— | | | | | | | |
| 10.1 Migrants' funds . 10.2 Other | : | 167 71 | 95 121 | 156 98 | 119 143 | 166 231 | 1 |
| Balance on current account | | 758 | | •• | 792 | ., | 9 |
| | - | _ | | | | | |

For footnotes see next page.

OVERSEAS TRANSACTIONS

BALANCE OF PAYMENTS: AUSTRALIA—continued (\$ million)

| | 1972–73 | | 1973–74 | | 1974-75 | |
|--|---------------|--------------------|---------------|-----------------|------------------|----------------|
| | Credit | Debit | Credit | Debit | Credit | Debit |
| CAPITAL A | ACCOUNT | (NET) | | | | |
| Government— | | _ | | | | |
| 11 Government securities— 11.1 Domiciled overseas 11.2 Domiciled in Australia | . 33 | 66 | 46 | 130 | 1 21 | |
| 12 International development institutions . | | 9 | | 11 | | 27 |
| 13 Other government transactions | | 22 | 91 | | | 19 |
| Private— 14 Overseas investment in Australian companies- 14.1 Direct investment— | | | | | | |
| 14.11 Undistributed income 14.12 Other 14.2 Portfolio investment and institution | . 302 . 47 | | 424 163 | | 232 384 | • • |
| loans | . 107 | | | 135 | 309 | |
| 15 Australian investment overseas— | | | | | | |
| 15.1 Direct investment— 15.11 Undistributed income 15.12 Other 15.2 Portfolio investment | | 74 26 26 | | 99 123 15 | •• | 33 81 33 |
| 16 Other private investment | . 17 | | 14 | | 14 | |
| 17 Marketing authorities | . 34 | | • • | 95 | | 59 |
| Monetary— 18 Non-official monetary institutions— 18.1 Changes in liabilities— | | | | | | |
| 18.11 Borrowings overseas 18.12 Other liabilities 18.2 Changes in assets— | . 4 | • • | 7 14 | • • | 60 81 | •• |
| 18.21 Advances to non-residents 18.22 Foreign currency balances | | 6 133 | 138 | 4 | • • | 3 91 |
| 19 Official monetary institutions— 19.1 Changes in liabilities— 19.11 Use of I.M.F. credit 19.12 Other liabilities 19.2 Changes in official reserve assets 19.3 Allocation of S.D.R.'s 19.4 Other transactions | | 1,079 2 | 50 384 | | 7 460 | |
| Balancing item | . 40 | | 74 | | | 285 |
| Balance on capital account | | 758 | 792 | | 935 | |

⁽a) The amounts shown represent the recorded trade figures adjusted for balance of payments purposes. Adjustments affect timing, coverage and valuation. (b) Freight payable overseas only. Total freight and insurance on imports, whether payable overseas or in Australia, is estimated at \$463 million in 1971-72, 489 million in 1972-73, and \$745 million in 1973-74.

BALANCE OF PAYMENTS

BALANCE OF PAYMENTS BY REGIONS: AUSTRALIA (\$ million)

| Canada | | | | | | | | 1972-73 | 1973–74 | 1974-75 |
|--|--------------------------|------------|-----|--------|-----|------|-----|--------------|--------------|-----------|
| Ünited States of America 714 723 72 Canada 163 173 2 United Kingdom 565 436 48 European Economic Community(c) 661 649 8 Japan 1,921 2,139 2,3 New Zealand 311 434 5 Spapua New Guinea 121 128 11 Sino-Soviet Area 275 451 6 Other countries 1,280 1,562 2,4 Total exports 6,010 6,688 8,4 Imports f.o.b.(b)— United States of America 805 1,334 1,5 Canada 122 182 2,4 United Kingdom 682 756 1,1 European Economic Community(c) 533 786 1,0 Japan 1,2 160 1 Papua New Guinea 23 38 38 3,606 1,3 New Zealand 2,0 2,7 3 7,6 | | | C | URRENT | ACC | דאטכ | (a) | | | |
| Canada 163 173 2 United Kingdom 565 436 4 European Economic Community(c) 661 649 8 Japan 1,921 2,139 2,3 New Zealand 311 434 5 Papua New Guinea 121 128 18 Sino-Soviet Area 275 451 6 Other countries 1,280 1,562 2,4 Total exports 6,010 6,688 8,4 Imports f.o.b.(b)— United States of America 805 1,334 1,5 Canada 122 182 2 United States of America 880 1,334 1,5 Canada 122 182 2 United Kingdom 682 756 1,1 Sino-Soviet Area 688 1,036 1,3 New Zealand 122 160 1 Papua New Guinea 3 38 5,753 7,6 Invisibles (net)— United States of America -456 533 5 | Exports f.o.b.(b)— | | | | | | | | | |
| United Kingdom 565 436 436 18 1921 2139 23 18 1921 2139 2,3 18 1921 2139 2,3 18 213 2,3 18 213 2,3 18 2,3 18 2,3 18 2,3 13 434 5 2,4 18 2,3 18 2,4 18 12 18 1.2 18 1.2 18 1.2 18 1.2 18 1.2 18 1.2 18 1.2 18 1.2 18 2.2 4 10 1.4 1.4 1.2 1.4 1.4 1.4 1.2 1.4 1.4 1.4 1.2 1.4 1.4 1.2 1.4 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.2 1.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | | | | | | | | | 723 | 781 |
| European Economic Community(c) 661 649 8 1,921 2,139 2,3 New Zealand 311 434 5 Papua New Guinea 121 128 11 128 12 13 128 13 14 14 14 14 14 14 14 | | | | | • | | | | | 288 |
| Japan 1,921 2,139 2,3 New Zealand 311 434 5 Papua New Guinea 121 128 15 16 Other countries 1,280 1,562 2,4 Total exports 6,010 6,688 8,4 Imports f.o.b.(b)— United States of America 805 1,334 1,5 | | · | • | | | | | | | 428 |
| New Zealand | | nmunity(c) | | | | | • | | | 834 |
| Papua New Guinea 121 128 128 128 128 1275 451 6 6 6 6 6 6 6 6 6 | | • • | • | | • | | • | | | 2,398 |
| Sino-Soviet Area 275 451 6 Other countries 1,280 1,562 2,4 Total exports 6,010 6,688 8,4 Imports f.o.b.(b)— United States of America 805 1,334 1,5 Canada 122 182 2 United Kingdom 682 756 1,1 European Economic Community(c) 533 786 1,0 Japan 688 1,036 1,3 New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area 74 139 1 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America – 456 – 553 – 5 Canada – 29 – 27 – – United Kingdom – 500 – 583 – 4 European Economic Community(c) – 130 – 161 – 1 Japan – 76 – 63 – 1 <td< td=""><td></td><td>• •</td><td>•</td><td></td><td>•</td><td>•</td><td>•</td><td></td><td></td><td>513</td></td<> | | • • | • | | • | • | • | | | 513 |
| Other countries 1,280 1,562 2,4 Total exports 6,010 6,688 8,4 Imports f.o.b.(b)— United States of America 805 1,334 1,5 Canada 122 182 2 United Kingdom 682 756 1,1 European Economic Community(c) 533 786 1,0 Japan 688 1,036 1,3 New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area 74 139 1. Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America - 456 - 553 - 5 Canada - 29 - 27 - - United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Japan 10 41 - 6 New Zealand 10 41 - 6 Internat | | | ٠ | | • | • | • | | | 183 |
| Total exports 6,010 6,688 8,4 | | • • | ٠ | | • | • | | | | 602 |
| Imports f.o.b.(b) — United States of America | Other countries . | • • | • | • • | • | • | • | 1,280 | 1,562 | 2,407 |
| United States of America 805 1,334 1,5 Canada 122 182 2 United Kingdom 682 756 1,1 European Economic Community(c) 533 786 1,0 Japan 688 1,036 1,3 New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area 74 139 1 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America 456 553 -5 Canada -29 27 - - United Kingdom -500 583 -4 European Economic Community(c) -130 -161 -1 Japan 10 41 -6 New Zealand 10 41 -6 Papua New Guinea -76 -63 - Sino-Soviet Area -6 -4 - Other countries -262 -380 <t< td=""><td>Total exports .</td><td></td><td></td><td></td><td></td><td>•</td><td></td><td>6,010</td><td>6,688</td><td>8,434</td></t<> | Total exports . | | | | | • | | 6,010 | 6,688 | 8,434 |
| Canada 122 182 2 United Kingdom 682 756 1,1 European Economic Community(c) 533 786 1,0 Japan 688 1,036 1,3 New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area 74 139 1 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America - 456 - 553 - 5 Canada - 29 - 27 - United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Japan - 3 - 11 - New Zealand 10 41 0 Papua New Guinea - 76 - 63 - Sino-Soviet Area - 6 - 4 - Other countries - 262 - 380 - 4 International agencies - 2,44 - 1,727 | | | | | | | | | | |
| United Kingdom European Economic Community(c) Japan 688 1,036 1,33 New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area Other countries 759 1,322 1,93 Total imports 3,808 5,753 7,66 Invisibles (net)— United States of America United Kingdom Sino-Soviet Area Other countries - 130 - 161 - 11 Japan - 3 - 11 - 11 New Zealand - 10 41 Papua New Guinea Sino-Soviet Area Other countries - 262 - 380 - 44 International agencies - 1,444 - 1,727 - 1,76 Balance on current account— United Kingdom - 618 - 903 - 1,1 European Economic Community(c) - 1 2 - 298 - 4 Japan - 1 - 1,444 - 1,727 - 1,76 Balance on current account— United Kingdom - 618 - 903 - 1,1 European Economic Community(c) - 2 - 298 - 4 Japan - 10 - 1,444 - 1,727 - 1,76 Balance on current account— United Kingdom - 618 - 903 - 1,1 European Economic Community(c) - 2 - 298 - 4 Japan - 1 1230 1 092 - 97 New Zealand - 199 315 44 Papua New Guinea - 262 - 380 - 4 Japan - 1 1230 1 092 - 97 New Zealand - 199 315 44 Papua New Guinea - 259 - 139 International agencies - 20 - 17 - 10 Gold production - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 - 27 30 | | | | | | • | • | | | 1,568 |
| European Économic Community(e) 533 786 1,0 Japan 688 1,036 1,3 New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area 74 139 1 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,60 Invisibles (net)— United States of America − 456 − 553 − 5 Canada − 29 − 27 − United Kingdom − 500 − 583 − 4 European Economic Community(e) − 130 − 161 − 1 Japan − 3 − 11 − New Zealand 10 41 ← Papua New Guinea − 76 − 63 − 1 Sino-Soviet Area − 6 − 4 − Other countries − 262 − 380 − 4 International agencies − 200 − 17 − Gold production − 1,444 − 1,727 − 1,70 Balance on current account— United Kingdom − 546 − 1,164 − 1,32 Canada 12 − 37 ← United Kingdom − 618 − 903 − 1,11 European Economic Community(c) − 2 − 298 − 4 Japan 1230 1092 99 New Zealand 199 315 44 Papua New Guinea 22 21 5 Sino-Soviet Area 195 307 4 Other countries − 259 − 139 New Zealand 199 315 44 Papua New Guinea 22 21 5 Sino-Soviet Area 195 307 4 Other countries − 259 − 139 International agencies − 200 − 17 − − Gold production − 27 30 Total invisibles (net) − 2 − 298 − 4 Japan 1230 1092 99 New Zealand 199 315 44 Papua New Guinea 22 21 5 Sino-Soviet Area 195 307 4 Other countries 259 − 139 International agencies − 200 − 17 − − Gold production − 27 30 | | | • | | • | • | • | | | 204 |
| Japan 688 1,036 1,3 New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area 74 139 1 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America - 456 - 553 - 5 Canada - 29 - 27 - United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Japan - 3 - 11 - New Zealand 10 41 6 Papua New Guinea - 76 - 63 - 1 Sino-Soviet Area - 262 - 380 - 4 Other countries - 262 - 380 - 4 International agencies - 20 - 17 - 2 Gold production - 27 30 - 2 Total invisibles (net) - 1,444 - 1,727 - 1,70 Balance on current account— <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td></td><td></td><td></td><td>1,144</td></td<> | | | | | • | • | | | | 1,144 |
| New Zealand 122 160 1 Papua New Guinea 23 38 Sino-Soviet Area 74 139 1 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America - 456 - 553 - 5 Canada - 29 - 27 - - United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Lungan - 3 - 11 - New Zealand 10 41 - Papua New Guinea - 76 - 63 - 6 Sino-Soviet Area - 6 - 4 - Other countries - 262 - 380 - 4 International agencies - 262 - 380 - 4 International agencies - 20 - 17 - 1,70 Balance on current account— - 1,444 - 1,727 - 1,70 Balance on current account— - 1,444 - 1,727 - 1,70 | | munity(c) | • | | • | | • | | | 1,097 |
| Papua New Guinea 23 38 Sino-Soviet Area 74 119 1 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America — 456 — 553 — 5 Canada — 29 — 27 — United Kingdom — 500 — 583 — 4 European Economic Community(c) — 130 — 161 — 1 Japan — 3 — 11 — 1 New Zealand 10 41 — 6 — 1 — 1 Papua New Guinea — 76 — 63 — 1 | | | • | | • | • | • | | , | 1,396 |
| Sino-Soviet Area 74 139 1.00 Other countries 759 1,322 1,9 Total imports 3,808 5,753 7,6 Invisibles (net)— United States of America - 456 - 553 - 55 Canada - 29 - 27 - United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Japan - 3 - 11 - New Zealand 10 41 - 1 Papua New Guinea - 76 - 63 - 1 Sino-Soviet Area - 6 - 4 Other countries - 262 - 380 - 4 International agencies - 20 - 17 Gold production 27 30 - 1,70 Balance on current account— United States of America - 546 - 1,164 - 1,30 United Kingdom - 618 - 903 - 1,1 European Economic Community(c) - 2 - 298 - 4 United Kingdom - 618 | | | • | | • | • | • | | | 175 |
| Other countries 759 1,322 1,92 Total imports 3,808 5,753 7,60 Invisibles (net)— United States of America — 456 — 553 — 5 Canada — 29 — 27 — United Kingdom — 500 — 583 — 4 European Economic Community(c) — 130 — 161 — 1 Japan — 3 — 11 — New Zealand 10 41 — 6 Papua New Guinea — 76 — 63 — 6 Sino-Soviet Area — 6 — 4 Other countries — 262 — 380 — 4 International agencies — 20 — 17 — Gold production 27 30 — Total invisibles (net) — 1,444 — 1,727 — 1,70 Balance on current account— United States of America — 546 — 1,164 — 1,31 Canada — 12 — 37 — United Kingdom — 618 — 903 — 1,11 European Economic Community(c) — 2 — 20 | | | • | | • | • | | | | 31 |
| Total imports 3,808 5,753 7,66 | | | • | | • | • | • | | | 124 |
| Invisibles (net) — | Other countries . | ٠., | • | | • | • | ٠ | 739 | 1,322 | 1,923 |
| United States of America - 456 - 553 - 55 Canada - 29 - 27 - United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Japan - 3 - 11 - New Zealand 10 41 - Papua New Guinea - 76 - 63 - Sino-Soviet Area - 6 - 4 - Other countries - 262 - 380 - 4 International agencies - 20 - 17 - Gold production 27 30 - Total invisibles (net) - 1,444 - 1,727 - 1,76 Balance on current account— - United States of America - 546 - 1,164 - 1,36 Canada 12 - 37 - 1,44 - 1,727 - 1,76 Balance on current account— 12 - 298 - 4 United States of America - 546 - 1,164 - 1,36 Canada 12 - 37 - 1,26 United Kingdom | Total imports . | | | | | | | 3,808 | 5,753 | 7,662 |
| Canada - 29 - 27 - United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Japan - 3 - 11 - 1 New Zealand 10 41 - 6 Papua New Guinea - 76 - 63 - 8 Sino-Soviet Area - 6 - 4 - 4 Other countries - 262 - 380 - 4 International agencies - 20 - 17 Gold production 27 30 - 1,727 - 1,70 Balance on current account— - 1,444 - 1,727 - 1,70 Balance on current account— - 2 - 2,44 - 1,727 - 1,70 Balance on current account— - 1,444 - 1,727 - 1,70 Balance on current account— - 2 - 2,98 - 4 United Kingdom - 618 - 903 - 1,17 European Economic Community(c) - 2 - 298 - 4 Japan 1 230 1092 9 New Zealand 1 230 | Invisibles (net)— | | | | | | | | | |
| Canada - 29 - 27 - 1 United Kingdom - 500 - 583 - 4 European Economic Community(c) - 130 - 161 - 1 Japan - 3 - 11 - New Zealand 10 41 - 1 Papua New Guinea - 76 - 63 - 1 Sino-Soviet Area - 6 - 4 - 6 - 4 Other countries - 262 - 380 - 4 International agencies - 20 - 17 Gold production 27 30 - 4 United Invisibles (net) - 1,444 - 1,727 - 1,76 Balance on current account— - 1,444 - 1,727 - 1,76 United States of America - 546 - 1,164 - 1,33 Canada 12 - 37 - 1,33 United Kingdom - 618 - 903 - 1,17 European Economic Community(c) - 2 - 298 - 4 Japan 1230 1092 99 New Zealand 199 315 40 | United States of America | | | | | | | - 456 | - 553 | 596 |
| European Economic Community(c) — 130 — 161 — 1 Japan — 3 — 11 — 1 New Zealand — 10 41 — 6 Papua New Guinea — 76 — 63 — 6 Sino-Soviet Area — 6 — 4 — 6 Other countries — 262 — 380 — 4 International agencies — 20 — 17 — 7 Gold production — 27 — 30 — 7 Total invisibles (net) — 1,444 — 1,727 — 1,76 Balance on current account— — 1,444 — 1,727 — 1,76 United States of America — 546 — 1,164 — 1,36 Canada — 12 — 37 — 6 United Kingdom — 618 — 903 — 1,17 European Economic Community(c) — 2 — 298 — 4 Japan — 1230 — 1092 — 9 New Zealand — 199 — 315 — 4 Papua New Guinea — 22 — 21 — 2 Sino-Soviet Area — 195 — 307 — 4 | | | | | | | | - 29 | – 27 | - 22 |
| Japan | United Kingdom . | | | | | | | - 500 | - 583 | - 457 |
| New Zealand 10 41 6 Papua New Guinea -76 -63 - Sino-Soviet Area -6 -4 - Other countries -262 -380 -4 International agencies -20 -17 - Gold production 27 30 - Total invisibles (net) -1,444 -1,727 -1,76 Balance on current account— -1,444 -1,727 -1,76 United States of America -546 -1,164 -1,33 Canada 12 -37 0 United Kingdom -618 -903 -1,1 European Economic Community(c) -2 -298 -4 Japan 1230 1092 9 New Zealand 199 315 44 Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4 Other countries 259 -139 6 International agencies -20 -17 - Gold production 27 <td< td=""><td>European Economic Com</td><td>munity(c)</td><td></td><td></td><td></td><td></td><td></td><td>- 130</td><td> 161</td><td>- 150</td></td<> | European Economic Com | munity(c) | | | | | | - 130 | 161 | - 150 |
| Papua New Guinea - 76 - 63 - 6 Sino-Soviet Area - 6 - 4 - Other countries - 262 - 380 - 4 International agencies - 20 - 17 - Gold production 27 30 - Total invisibles (net) - 1,444 - 1,727 - 1,70 Balance on current account— - - 1,444 - 1,727 - 1,70 United States of America - 546 - 1,164 - 1,33 Canada 12 - 37 0 United Kingdom - 618 - 903 - 1,1° European Economic Community(c) - 2 - 298 - 4 Japan 1 230 1 092 9° New Zealand 199 315 44 Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4 Other countries 259 - 139 6 International agencies - 20 - 17 - 27 Gold production 27 30 | Japan | | | | | | | - 3 | 11 | - 32 |
| Sino-Soviet Area - 6 - 4 - 4 Other countries - 262 - 380 - 45 International agencies - 20 - 17 - 2 Gold production 27 30 Total invisibles (net) - 1,444 - 1,727 - 1,76 Balance on current account— United States of America - 546 - 1,164 - 1,36 Canada 12 - 37 - 618 - 903 - 1,17 European Economic Community(c) - 2 - 298 - 4 Japan 1 230 - 1092 - 97 New Zealand 199 - 315 - 44 Papua New Guinea 22 - 21 - 6 Sino-Soviet Area 195 - 307 - 4 Other countries 259 - 139 - 6 International agencies - 20 - 17 - 6 Gold production 27 - 30 | New Zealand | | | | | | | 10 | 41 | 64 |
| Other countries - 262 - 380 - 47 International agencies - 20 - 17 - Gold production 27 30 - Total invisibles (net) -1,444 -1,727 -1,76 Balance on current account— United States of America - 546 -1,164 -1,33 Canada 12 - 37 6 United Kingdom - 618 - 903 -1,17 European Economic Community(c) - 2 - 298 - 4 Japan 1230 1092 9 New Zealand 199 315 46 Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4 Other countries 259 - 139 6 International agencies - 20 - 17 - Gold production 27 30 - | Papua New Guinea | | | | | | | - 76 | – 63 | - 88 |
| International agencies | Sino-Soviet Area | | | | | | | - 6 | - 4 | - 7 |
| Gold production 27 30 Total invisibles (net) -1,444 -1,727 -1,76 Balance on current account— -1,444 -1,727 -1,76 United States of America -546 -1,164 -1,33 Canada 12 -37 0 United Kingdom -618 -903 -1,11 European Economic Community(c) -2 -298 -4 Japan 1230 1092 -9 New Zealand 199 315 44 Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4 Other countries 259 -139 6 International agencies -20 -17 - Gold production 27 30 | Other countries | | | | | | | - 262 | – 380 | - 421 |
| Total invisibles (net) -1,444 -1,727 -1,76 Balance on current account— United States of America -546 -1,164 -1,33 Canada 12 -37 0 United Kingdom -618 -903 -1,1° European Economic Community(c) -2 -298 -4 Japan 1230 1092 9° New Zealand 199 315 44 Papua New Guinea 22 21 0 Sino-Soviet Area 195 307 4° Other countries 259 -139 0 International agencies -20 -17 - Gold production 27 30 - | International agencies . | | | | | | | | | - 54 |
| Balance on current account— United States of America - 546 -1,164 -1,33 Canada 12 - 37 0 United Kingdom - 618 - 903 -1,17 European Economic Community(c) - 2 - 298 - 4 Japan 1230 1092 97 New Zealand 199 315 40 Papua New Guinea 22 21 0 Sino-Soviet Area 195 307 4 Other countries 259 - 139 0 International agencies - 20 - 17 - 20 Gold production 27 30 | Gold production | | | | | | • | 27 | 30 | 56 |
| United States of America - 546 -1,164 -1,31 Canada 12 - 37 0 United Kingdom - 618 - 903 -1,11 European Economic Community(c) - 2 - 298 - 4 Japan 1 230 1 092 9 New Zealand 199 315 40 Papua New Guinea 22 21 0 Sino-Soviet Area 195 307 4 Other countries 259 - 139 0 International agencies - 20 - 17 - 2 Gold production 27 30 - 30 | Total invisibles (net) | | | | | | | 1,444 | -1,727 | -1,708 |
| Canada 12 - 37 0 United Kingdom - 618 - 903 -1,1° European Economic Community(c) - 2 - 298 - 4 Japan 1 230 1 092 9° New Zealand 199 315 44 Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4° Other countries 259 - 139 6 International agencies - 20 - 17 - Gold production 27 30 - | | _ | | | | | | | | |
| United Kingdom - 618 - 903 -1,1° European Economic Community(c) - 2 - 298 - 4 Japan 1 230 1 092 9° New Zealand 199 315 40° Papua New Guinea 22 21 60° Sino-Soviet Area 195 307 4° Other countries 259 - 139 60° International agencies - 20 - 17 - 20° Gold production 27 30 - 30° | | • | • | | | • | | | | -1,384 |
| European Economic Community(c) - 2 - 298 - 4 Japan 1 230 1 092 9° New Zealand 199 315 40° Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4° Other countries 259 - 139 6 International agencies - 20 - 17 - Gold production 27 30 - | | | ٠ | | | • | | | | 62 |
| Japan 1 230 1 092 9° New Zealand 199 315 40° Papua New Guinea 22 21 6° Sino-Soviet Area 195 307 4° Other countries 259 139 6° International agencies -20 17 - Gold production 27 30 - | | | • | | • | • | | | | , |
| New Zealand 199 315 40 Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4 Other countries 259 139 6 International agencies -20 17 - Gold production 27 30 - | | munity(c) | • | | • | • | | | | - 412 |
| Papua New Guinea 22 21 6 Sino-Soviet Area 195 307 4 Other countries 259 139 6 International agencies -20 17 - Gold production 27 30 - | | | ٠ | | • | • | | | | 970 |
| Sino-Soviet Area 195 307 4 Other countries 259 - 139 0 International agencies - 20 - 17 - Gold production 27 30 - | | | • | | • | • | • | | | 402 |
| Other countries | | | • | | • | • | • | | | 63 471 |
| International agencies | | | ٠ | | • | • | • | | | 471 |
| Gold production | | | • | | • | | • | | | 62 54 |
| | | • | • | | • | • | | | | - |
| | Goia production | | • | | • | • | • | 21 | 30 | 56 |
| Balance on current account | Balance on curre | ent accoun | t . | | | | | 758 | - 792 | - 935 |

For footnotes see next page.

OVERSEAS TRANSACTIONS

BALANCE OF PAYMENTS BY REGIONS: AUSTRALIA—continued (\$ million)

| | | | | | | | | | 197. | 2–7 <i>3</i> | 197 | 3–74 | 197 | 4–7 |
|--|----------|---------------|-------|---------|----------------|------|-----|--------|------|--------------|-----|----------|-----|-----|
| | | CA | PIT | AL A | ACC | ראטכ | (NE | ET)(a) | | - | | | | |
| on-monetary sector— | | | | | | | | | | | | | | |
| Government capital mov | | ;— | | | | | | | | | | | | |
| United States of Amer | ica . | | | • | | • | • | • | _ | 69 | | 27 | | |
| Canada | • | • | • | • | • | • | • | • | _ | 1 | | :: | | |
| United Kingdom | | ٠.,, | ; | • | • | ٠ | • | • | _ | 51 | _ | 35 | _ | 6 |
| European Economic C | ommu | nity(| c) | • | • | • | • | • | _ | 10 | | 3 | | 2 |
| Japan New Zealand . | • | • | • | • | • | • | • | • | | 28 | | 1 | | |
| Papua New Guinea | • | • | • | • | • | • | • | • | | 1 | | 2 | | |
| Sino-Soviet Area | • | • | • | • | • | • | • | • | | • • | _ | | | |
| International developm | nent fir | Iancii | no ir | setitut | ione | • | • | • | _ | 20 | | 24 | _ | 3 |
| Other countries . | | | | | | ÷ | : | | | 58 | | 26 | | 3 |
| Total government cap | pital m | ovem | ents | | | | | | _ | 64 | | 4 | - | 2 |
| Overseas investment in A | | an co | omp | anies- | | | | | | | | | | |
| United States of Amer | ica . | • | | | • | • | | • | | 91 | | 189 | | 44 |
| Canada | • | | | • | • | • | | • | | 8 | | 18 | | |
| United Kingdom | | | | • | • | • | | • | | 106 | | 92 | | 1 |
| European Economic C | ommu | nity(| c) | ٠ | • | • | • | • | | 55 | | 90 | | |
| Japan New Zealand . | • | • | • | • | • | • | • | • | | 5 3 | | 64 9 | | • |
| Papua New Guinea | • | • | • | • | • | • | • | • | _ | 4 | _ | 13 | _ | |
| Sino-Soviet Area | • | • | • | • | • | • | • | • | | | | | _ | |
| Other countries(c) | | • | | | | | | | | 147 | _ | 6 | | 15 |
| Total overseas invest | ment ir | a Aus | trali | an coi | npani | es. | | | | 455 | | 451 | | 9 |
| Other capital movements | | | | | | | | | | _ | | | | |
| United States of Amer | | • | • | • | • | • | | • | _ | 7 | _ | 37 | _ | |
| Canada | • | • | • | • | • | • | • | • | _ | 6 | - | 1 | | : |
| United Kingdom European Economic C | | :4/ | | • | • | • | • | • | | 1 23 | _ | 21 27 | _ | • |
| Japan | Ommu | шцу | 9 | • | • | • | • | • | _ | | _ | | | |
| New Zealand . | • | • | • | , . | • | • | • | • | | 20 | _ | 24 | _ | |
| Papua New Guinea | • | | • | • | • | • | • | • | _ | 50 | _ | 49 | _ | - |
| Sino-Soviet Area | • | • | • | • | • | • | • | • | _ | 9 | _ | 58 | | |
| Other countries(c) | • | • | • | • | • | • | • | • | | 38 | | 101 | _ | ; |
| Total other private co | anital s | | | | • | • | • | • | | 76 | | 319 | | 19 |
| Total non-monetary sect | - | | | | • | • | • | • | _ | 70 | • | 319 | | 1. |
| United States of Amer | | Sacti | J113 | | | | | | | 15 | | 179 | | 4. |
| Canada | | | • | • | • | • | · | • | | 1 | | 17 | | • |
| United Kingdom | | • | | | | | • | | | 56 | | 36 | | |
| European Economic C | Commu | nity(| c) | | | | | | | 22 | | 66 | | 1 |
| Japan | | . *` | | | | | | | | 81 | | 65 | | |
| New Zealand . | | | | | | | | | _ | 28 | _ | 33 | _ | |
| Papua New Guinea | | | | | | | | | _ | 46 | _ | 38 | _ | |
| Sino-Soviet Area | | | · | • | | | • | | _ | 9 | _ | 58 | - | |
| International develops Other countries and in | | | | | ns(<i>c</i>) | : | | : | _ | 20 243 | _ | 24 81 | _ | 1 |
| Total non-monetary | sector | trans | actio | ns | | | | | | 315 | | 128 | | 7 |
| onetary sector transactio | | | | | | | | | | | | | | |
| Net official monetary mo | | | | | | | | • . | -1 | ,071 | | 435 | | 4 |
| Non-official monetary se | ctor tr | ansac | tion | ıs(c) | | | | | _ | 44 | | 154 | | _ |
| | | | | | | | | | | 40 | | 74 | _ | 2 |
| alancing item(c) . | • | • | ٠ | • | • | • | • | • | | 40 | | , , | | |

⁽a) For current account balances minus sign (-) denotes deficit; for capital account items minus sign (-) denotes an increase in overseas assets or a decrease in liabilities to overseas.

(b) The amounts shown represent recorded trade figures adjusted for balance of payments purposes. Adjustments affect timing, coverage and valuation.

(c) Excluding United Kingdom.

(d) No regional split is available for these items.

International reserves

The following table shows Australia's official reserve assets as at 30 June for recent years.

OFFICIAL RESERVE ASSETS

(Source: Reserve Bank of Australia)
(\$ million)

| | | | 30 June | | | | |
|--------------------------|--|------|---------|-------|-------|--|--|
| | | | 1974 | 1975 | 1976 | | |
| Official reserve assets— | | | | | | | |
| Gold | | | 210 | 238 | 239 | | |
| Special Drawing Rights | | | 150 | 89 | 37 | | |
| I.M.F. gold tranche | | | 149 | 156 | 155 | | |
| Foreign exchange | | | | | | | |
| United States dollars | | | 1,852 | 2,252 | 1,457 | | |
| Others | | | 1,199 | 758 | 688 | | |
| Total | | | 3,560 | 3,493 | 2,576 | | |

FOREIGN OWNERSHIP AND CONTROL

Introduction

A program of studies of foreign participation in key industries, economic activities and resources in Australia is being undertaken. Studies have been completed for mining, manufacturing, tourist accommodation, accredited advertising agencies, finance companies, general insurance and life insurance. The program of foreign participation studies will be extended progressively to cover other areas of the Australian economy and will provide for updating of studies in selected areas to monitor trends in foreign participation over time.

Brief explanatory notes and a summary of the main results of these studies are given below. More detailed statistics and explanatory notes are contained in the following bulletins on individual foreign participation studies.

Foreign Ownership and Control in Manufacturing Industry, 1972–73 (12.38), Foreign Control in Manufacturing, Study of Large Enterprise Groups, 1972–73 (12.35), Foreign Ownership and Control of the Mining Industry, 1973–74 and 1974–75 (10.42), Foreign Ownership and Control of General Insurance Business, 1972–73 (5.52), Foreign Ownership and Control of Life Insurance Business, 1973 (5.53), Foreign Ownership and Control of Finance Companies, 1973 (5.50), Foreign Ownership and Control of Tourist Accommodation Establishments, 1973–74 (11.47) and Foreign Ownership and Control of Accredited Advertising Agencies, 1974–75 (17.28).

Foreign Ownership

Foreign ownership of a statistical unit (establishment, enterprise, etc.) is measured in terms of the total beneficial equity interest in that unit held by all identified foreign residents (enterprises and persons). Equity interest in companies is measured by the percentage paid-up value of voting shares held, with equivalent measures of equity interest being used for unincorporated enterprises.

Foreign ownership is classified into direct foreign ownership and other identified foreign ownership. Direct foreign ownership is defined as ownership of at least 25 per cent of equity by a foreign resident (person, company or group of related companies). Other identified foreign ownership is the remaining foreign ownership by way of portfolio investment that can be traced to a statistical unit. The procedures for indentifying this latter component of foreign ownership have varied somewhat between studies and, consequently, the percentages of 'other identified foreign ownership' and 'total foreign ownership' given in the following table are not exactly comparable between industries.

To obtain aggregate measures of the extent of foreign ownership in a particular industry, operations data for each statistical unit in the industry are apportioned to 'foreign ownership' and 'Australian ownership' in proportion to the percentage of foreign and Australian ownership in that unit and the results summed over all units in the industry.

Foreign Control

Broadly, a company in Australia is classified as *foreign-controlled* if a single foreign resident (person or company) holds at least 25 per cent of the paid-up value of its voting shares (or equivalent equity interest in the case of unincorporated enterprises), provided that there is no larger holding by an Australian-controlled enterprise or Australian resident person. Under this definition, enterprises in which there is an *equal* holding by an Australian-controlled enterprise or Australian resident person are classified as *foreign-controlled*. All enterprises not classified as foreign-controlled are classified as *Australian-controlled*.

It is to be noted that the classification to foreign control is based on statistical criteria which may not accord with the realities of control in any given case. The statistics on foreign control therefore should be understood to be subject to that important qualification.

To obtain aggregate measures of the extent of foreign control of an industry, operations data for each statistical unit in that industry are allocated wholly to the appropriate control category for that unit and the results summed over all units in the industry.

In the following table the classification by country of foreign control is based on the country of domicile of the foreign resident who holds the controlling interest (of 25 per cent or more). This may not correspond to the country of ultimate control since the foreign resident may be a company that is controlled by residents of another country.

FOREIGN OWNERSHIP OF AUSTRALIAN INDUSTRIES

| | | Foreign own | ership | | | | |
|--|--|-----------------------|----------|-------------------------------|-------------------------|----------|------------|
| Industry and period | Foreign! Aust. ownership measured in terms of | foreign foreign forei | | Total foreign ownership | Australian ownership | Total | Total |
| | | per cent | per cent | per cent | per cent | per cent | \$ million |
| Manufacturing 1972-73 | value added | 27.7 | 3.5 | 31.2 | 68.8 | 100.0 | 10,746 |
| Mining 1974-75 | value added | 40.9 | 10.9 | 51.8 | 48.2 | 100.0 | 2,641 |
| General insurance busi- ness 1972-73 | premiums received | 41.4 | 4.3 | 45.7 | 54.3 | 100.0 | 1,323 |
| Life insurance business | premiums received | 18.8 | 18.0 | 36.8 | 63.2 | 100.0 | 1,101 |
| Finance companies 1973 | balances outstanding | 26.6 | 21.3 | 48.0 | 52.0 | 100.0 | 8,446 |
| Tourist accommodation establishments 1973-74 | total takings | 2.3 | 1.2 | 3.5 | 96.5 | 100.0 | 1,361 |
| Accredited advertising agencies 1974-75 | turnover | 42.5 | 0.3 | 42.8 | 57.2 | 100.0 | 464 |

FOREIGN CONTROL OF AUSTRALIAN INDUSTRIES

| | F | Foreign co | ntrol | | | | | |
|--|---|--------------------------------|----------|----------|-----------------------|----------|----------|------------|
| Industry and period | Foreign Aust. control measured in terms of | United red in United States of | | Total | Australian control | Total | Total | |
| | | per cent | per cent | per cent | per cent | per cent | per cent | \$ million |
| Manufacturing 1974-75 | value added | 16.2 | 13.1 | 5.0 | 34.3 | 65.7 | 100.0 | 10,746 |
| Mining 1974-75 | value added | 12.6 | 40.6 | 5.7 | 58.9 | 41.1 | 100.0 | 6,641 |
| General insurance busi- ness 1972-73 | premiums received | 31.6 | 2.9 | 10.5 | 45.0 | 55.0 | 100.0 | 1,323 |
| Life insurance business | premiums received | 13.9 | 2.1 | 3.4 | 19.4 | 80.6 | 100.0 | 1,101 |
| Finance companies 1973 | balances outstanding | 19.5 | 17.5 | 4.5 | 41.5 | 58.5 | 100.0 | 8,446 |
| Tourist accommodation establishments 1973-74 | total takings | 1.2 | 0.7 | 2.3 | 4.3 | 95.7 | 100.0 | 1,361 |
| Accredited advertising agencies 1974-75 | turnover | 6.4 | 44.5 | • • | 50.9 | 49.1 | 100.0 | 464 |

INDEXES OF VALUES OF EXPORTS AND IMPORTS AT CONSTANT PRICES

The following tables show annual indexes of the values of Australian exports and imports of merchandise at constant (average 1966-67) prices. Further information concerning the sources and methods used in compiling the series is contained in the bulletin Exports and Imports of Merchandise at Constant Prices (8.21) published on 10 October 1968. Quarterly figures in original and seasonally adjusted terms are published regularly in the bulletin Exports and Imports of Merchandise at Constant Prices (8.22).

Nature of the indexes

Indexes of this type are designed to provide, in convenient summary form, measures of change in the quantum of exports and imports. They are sometimes referred to as measures of change in the volume of exports and imports, though strictly speaking they measure change in the value of exports and imports after the direct effects of price changes have been eliminated. Measures of this type are, of necessity, subject to approximations and assumptions, and they should not be interpreted in any precise quantitative sense.

In concept, the indexes may be thought of as being derived by expressing the value of each export or import item as the product of a price and a quantity, and by then substituting for each actual current price the corresponding price in the chosen base year. The total value of exports or imports in the current year, expressed at the prices of the base year, is then obtained by summing and is converted to an index number by dividing by the total value of exports or imports in the base year. Indexes so derived may be described as 'fixed-weight' indexes, the weights of individual items in the composite measure being determined by their relative prices in the base year. It follows that the choice of a particular base year will normally affect the trend of such indexes (so long as there are variations in the rate of change in quantity of individual items, and variations in relative prices of such items from one year to the next).

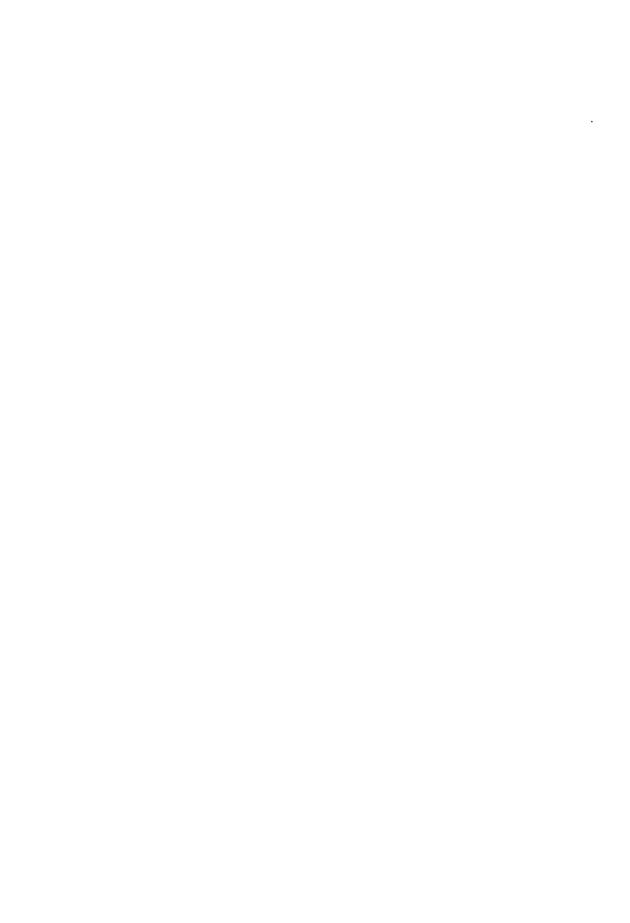
The indexes are compiled on the basis of recorded statistics of exports and imports of merchandise. They should therefore be interpreted in conjunction with the statistics of overseas trade published by the Australian Bureau of Statistics. In particular, it should be noted that in overseas trade statistics (and in the index series derived from them) all values are determined on a 'free on board (f.o.b.) port of shipment' basis so that charges such as the cost of freight and insurance incurred after the goods have been exported from the port of shipment are excluded. It should also be noted that the indexes published below exclude from their scope non-merchandise trade as currently defined (i.e. Sections 9B of the new commodity classifications which contain commodities such as gold, legal tender, decorations, trophies, samples, passengers' personal effects, military equipment and stores for Australian forces abroad).

EXPORTS OF MERCHANDISE Indexes of Values at Average 1966-67 Prices (Base: Year 1966-67 = 100)

| - | Food | and live an | imals | | | | Madel | | |
|--------------------------------|--|--|--|-------|--------------------------------|--|--|------------------|--|
| | Meat and meat prepar- ations | Cereal grains and cereal prepar- ations | Other (dairy produce, fruit, sugar, etc.) | Total | Wool and sheep- skins | Metal- liferous ores and metal scrap | Metal manu- factures, machin- ery, transport equipment | Other exports | All exports of merchan- dise |
| Percentage of tota | | | | | | | | | |
| value of exports in 1966-67(a) | 9.5 | 15.8 | 12.5 | 37.8 | 29.7 | 5.6 | 14.2 | 12.7 | 100.0 |
| 1966-67 | . 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1967-68 | . 100 | 94 | 99 | 97 | 102 | 147 | 100 | 121 | 105 |
| 1968–69 | | 80 | 102 | 92 | 107 | 211 | 116 | 147 | 114 |
| 1969–70 | . 132 | 106 | 100 | 111 | 115 | 302 | 151 | 174 | 136 |
| 1970-71 | . 135 | 146 | 109 | 131 | 105 | 385 | 156 | 189 | 148 |
| 1971–72 | . 167 | 150 | 111 | 141 | 113 | 392 | 186 | 217 | 163 |
| 1972–73 | 214 | 95 | 126 | 135 | 108 | 474 | 226 | 237 | 172 |
| 1973–74 | . 158 | 93 | 112 | 116 | 77 | 553 | 186 | 268 | 158 |
| 1974–75 | . 136 | 141 | 102 | 127 | 75 | 597 | 201 | 272 | 167 |

IMPORTS OF MERCHANDISE Indexes of Values at Average 1966-67 Prices (Base: Year 1966-67 = 100)

| | | | beve | Food, rages, and bacco | Fuels | Basic materials | Chemicals (including plastics) | Textiles, fabrics, etc. | Metal manu- factures, machinery, transport equipment | Other imports | All imports of merchan- dise |
|------------|--------|--------|---|---------------------------------|-------|--------------------|--------------------------------------|-------------------------------|---|------------------|---------------------------------------|
| Percentage | of tot | al val | ue | | | | | | | | |
| of impor | | | | 5.2 | 8.2 | 7.4 | 9.9 | 8.0 | 43.3 | 18.0 | 100.0 |
| 1966-67 | | | • | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1967-68 | | | | 99 | 100 | 107 | 109 | 107 | 111 | 111 | 109 |
| 1968-69 | | | | 110 | 105 | 106 | 123 | 114 | 116 | 121 | 116 |
| 1969-70 | | | | 116 | iii | 112 | 132 | 122 | 127 | 137 | 126 |
| 1970-71 | • | - | | 120 | 81 | 108 | 145 | 127 | 133 | 152 | 130 |
| 1971-72 | • | | | 124 | ži | 104 | 139 | 133 | 113 | 153 | 121 |
| 1972-73 | • | | • | 127 | 64 | 125 | 150 | 143 | 115 | 164 | 129 |
| 1973-74 | • | • | • | 156 | 67 | 152 | 176 | 208 | 165 | 212 | 167 |
| 1974-75 | | : | · | 161 | 63 | 110 | 167 | 178 | 188 | 217 | 170 |



CHAPTER 12

TRANSPORT AND COMMUNICATION

The statistics in this chapter relate in the main to the year 1974-75, with comparisons restricted to a few recent years. More detailed figures and particulars for earlier years are included in the annual bulletins, Rail, Bus and Air Transport (14.21), Public Authority Finance—Federal Authorities (5.12), and in the annual mimeographed statement Motor Vehicle Registrations (14.1). Current information on subjects dealt with in this chapter appears in the Monthly Review of Business Statistics (1.4), the Digest of Current Economic Statistics (1.5), Overseas and Coastal Shipping (annual) (14.10), Motor Vehicle Registrations (quarterly) (14.2), one preliminary monthly statement Registration of New Motor Vehicles (14.6), two quarterly bulletins Road Traffic Accidents involving Casualties (14.9), (14.14), Road Accident Fatalities (monthly) (14.13).

Information additional to that contained in Bureau publications is available in the annual reports and other statements of the Department of Transport, the various harbour boards and trusts, the several Government railway authorities, the Australian Postal Commission, the Australian Telecommunications Commission, the Australian Broadcasting Control Board, and the Australian Broadcasting Commission.

THE AUSTRALIAN TRANSPORT ADVISORY COUNCIL

In April 1946, the State and Commonwealth Governments agreed to establish a co-ordinating and advisory committee at Ministerial level to review annually the various laws and regulations deemed necessary to safeguard the interests of the State Governments and road users generally and to consider matters of transport policy.

The Australian Transport Advisory Council (A.T.A.C.) thus established is comprised of the Commonwealth Minister for Transport as Chairman, the Minister for the Capital Territory and Minister for the Northern Territory and each State Minister for Transport.

The Council primarily considers policy matters relating to transport operations, co-ordination and development. Its functions are: to initiate discussion and report to the respective Governments as necessary on any matter raised by the Council, or any State or Commonwealth Government Authority; generally to exercise its purely advisory functions, and to report as necessary to the respective Governments concerned on any matter which will tend to promote a better co-ordination of transport development, while at the same time encouraging modernisation and innovation to meet changing needs; and to assist in maintaining continuous and comprehensive research in relation to transport development in Australia and abroad; such research to be carried out for the benefit of Australian Transport authorities and agencies.

The regulation of and the executive responsibility for transport is shared between the Commonwealth and State Governments. A.T.A.C. is the meeting ground at a Ministerial level and provides an effective means for inviting discussion and reaching uniformity of approach towards transport administrative procedures and policy. It also provides a means for reviewing and discussing national solutions of transport problems and the rectification of transport deficiencies generally. The Council has been active in: the establishment of special committees and conferences to examine and report on specific problems such as road safety, motor vehicle standards and safety features, motor vehicle emissions, transport economic research, highway planning, level crossing accidents, blood tests for road users, driver improvement, pedestrian behaviour, etc.; the exchange of views and formulation of common policies on a wide range of transport matters; effecting at ministerial level Commonwealth-State and interstate co-operation on such matters as construction and operation of interstate railway links, collecting of fines and fees interstate, policing of regulations, etc.; and the publication of comprehensive surveys of Australian transport.

Typical of matters A.T.A.C. has examined from time to time are the following: the effect of standardisation of railway gauges on other modes of transport; advanced national policies of road development and research; transport in relation to interstate tourist traffic; standardisation of traffic signs and road signs; standard and improved statistical data relating to transport of passengers and goods; uniform road traffic laws and standards for motor vehicle design and equipment; control of emissions from motor vehicles; pipelines as a transport medium; and containerisation and the need for uniform legislation, particularly in relation to maximum weights of road vehicles.

Details of the advisory committees established at February 1973 by the Transport Advisory Council are given in Year Book No. 59, pages 330-1.

SHIPPING

Control of shipping

Commonwealth Government navigation and shipping legislation

For an outline of the development and scope of Commonwealth Government legislation, see Year Book No. 55, pages 366-7.

Commonwealth Government Acts concerned with shipping are: the Navigation Act 1912, the Sea Carriage of Goods Act 1924, the Seamen's Compensation Act 1911, the Seamen's War Pensions and Allowances Act 1940, the Pollution of the Sea by Oil Act 1960, the Pollution (Shipping Levy) Act 1972, the Pollution (Shipping Levy Collection) Act 1972, the Australian Shipping Commission Act 1956, the Australian Coastal Shipping Agreement Act 1956, the Stevedoring Industry Act 1956, the Beaches, Fishing Grounds and Sea Routes Protection Act 1932, the Submarine Cables and Pipelines Protection Act 1963, the Lighthouses Act 1911, the Explosives Act 1961, the Inter-State Commission Act 1975, the King Island Harbour Agreement Act 1973, the King Island Shipping Service Agreement Act 1974 and the Ship Construction Bounty Act 1975.

Australian Shipping Commission

The Commission was established by the Australian Coastal Shipping Commission Act 1956. The Commission's role is to establish, maintain and operate interstate, overseas and territorial shipping services. In October 1974 when the Act was amended the title was changed to the Australian Shipping Commission to reflect the increasing importance of overseas trading activities. As at 31 December 1975 the Commission, operating as the Australian National Line, owned and/or operated a fleet of 34 vessels.

The fleet includes seven vessels engaged in overseas trading; five vehicle deck cargo ships, Australian Emblem 23,481 tonnes deadweight, Australian Escort 23,481 tonnes deadweight, Australian Enterprise 14,308 tonnes deadweight, Australian Explorer 14,151 tonnes deadweight and Allunga 20,626 tonnes deadweight; and two cellular container ships Australian Endeavour 26,844 tonnes deadweight and Australian Exporter 26,515 tonnes deadweight. The coastal fleet of 27 vessels includes two vehicle deck passenger ships, Empress of Australia 2,725 tonnes deadweight and Australian Trader 3,479 tonnes deadweight; six vehicle deck cargo ships totalling 35,175 tonnes deadweight; one container/bulkship of 12,093 tonnes deadweight in the Darwin trade; two bulk carriers in the 100,000 tonnes deadweight class; four bulk carriers in the 50-100,000 tonnes deadweight class; eleven other bulk carriers each less than 50,000 tonnes deadweight totalling 132,941 tonnes deadweight; and one 3,261 tonnes deadweight cellular container ship.

The Line has two 25,000 tonnes deadweight bulk carriers and one 5,500 tonnes deadweight vehicle deck (cargo ship) under construction in an Australian yard. Two 121,000 and two 139,000 tonnes deadweight bulk carriers, and one 29,000 tonnes deadweight cellular container vessel are also under construction in overseas yards.

The Line operates specialised terminals at Adelaide, Melbourne, Geelong, Burnie, Devonport, Bell Bay, Hobart, Sydney, Port Kembla, Brisbane, Rockhampton (Port Alma), Mackay, Townsville, Cairns and Darwin.

The vehicular passenger ships *Empress of Australia* and *Australian Trader* carry passengers between the mainland and Tasmania. In the year ended 30 June 1974 they carried 128,940 passengers and the year ended 30 June 1975 a record 133,591 passengers. During the same periods 9.3 and 10.4 million tonnes of cargo respectively, were carried by Australian National Line vessels.

Australian Shipbuilding Board

Advice to the Minister on the shipbuilding industry, including recommendations on bounty for each particular shipbuilding proposal, is provided by the Australian Shipbuilding Board. This Board has a membership of six including a representative of the Naval Board and of the Trade Union movement.

To 31 December 1975, 329 vessels valued at approximately \$734 million had been completed by Australian shipyards. Seventy-two of the vessels (ranging from customs launches to survey and research vessels, landing craft and lighthouse supply vessels, were built for the Commonwealth Government. The remaining 257 were built under the Commonwealth's subsidy scheme for other ship owners, including the Australian National Line.

Three major Australian shipyards are building merchant vessels—one in South Australia, and two in New South Wales; two other shipyards are engaged principally in naval shipbuilding—one in New South Wales and one in Victoria. There are numerous smaller yards building fishing vessels and other small craft and many builders of wooden commercial and pleasure boats.

Shipbuilding Assistance

The shipbuilding industry in Australia has been given Government assistance since the introduction of the shipbuilding subsidy scheme in 1947. The level of maximum subsidy has been determined by the Government on the basis of enquiries into the industry by the former Tariff Board now the Industries Assistance Commission. These enquiries have been held in 1954, 1959, 1963, and 1969.

Present policy is given effect by the Ship Construction Bounty Act 1975. Assistance is by way of a bounty at a fixed percentage dependant upon the size of the vessel and for maximum bounty, the date upon which construction was commenced in the shipyard. This rate is applied to the lowest acceptable Australian tender received as a result of public calling of tenders with appropriate deductions applied for items ineligible for bounty. Under the policy Australian owners may seek approval to import ships when overseas prices are less than the bounty-paid Australian price.

Vessels eligible for the bounty are fishing vessels of 21 metres length and above and other vessels of 150 tons Gross (Construction) Tonnage and above. For the smallest vessels bounty is at 25 per cent; this rising at $2\frac{1}{2}$ per cent per 1,000 tons gross to the maximum. The maximum in 1976 is 35 per cent. This diminishes to a long-term rate of 25 per cent for vessels commenced in 1981. The policy and administration of the policy on shipbuilding assistance is the responsibility of the Minister for Industry and Commerce.

Australian Stevedoring Industry Authority

In June 1949 legislation was enacted to abolish the Stevedoring Industry Commission, on which employers and employees were represented, and establish in its place a Stevedoring Industry Board of three members, to attend to administrative matters formerly under the control of the Commission. The industrial functions which previously came within the province of the Commission were assigned to a single Judge of the Commonwealth Court of Conciliation and Arbitration. In August 1956, the Stevedoring Industry Board was replaced by the Australian Stevedoring Industry Authority of three members, including a representative of the management side of industry and a representative of the trade union movement. At the same time the judicial and non-judicial functions formerly exercised by the Commonwealth Court of Conciliation and Arbitration were divided between the Commonwealth Industrial Court and the Commonwealth Conciliation and Arbitration Commission respectively. Awards of the Conciliation and Arbitration Commission subsequently placed payment of sick pay, public holiday pay and annual leave under the administration of the Authority. Under amending legislation, which operated from 6 June 1961, the Authority became responsible for payment of long service leave to registered waterside workers, and its disciplinary powers were strengthened to reduce the time lost through unauthorised stoppages. Further amending legislation which operated from 8 October 1965 made the Authority responsible for the recruitment of waterside workers. In July 1970, by legislative amendment, the management and union positions on the Authority were abolished. The functions of the Authority are now exercised by one full-time Director.

Following adoption of the General Report of the National Stevedoring Industry conference of April 1967, the Stevedoring Industry (Temporary Provisions) Act 1967 provided for permanent employment of registered waterside workers. This was introduced in Sydney in November 1967 and has since been extended to all the principal ports. Arrangements for a permanent labour force in small ports throughout Australia was introduced into Darwin in November 1974 and into Northern Tasmanian ports and the port of Hobart in November 1975 and January 1976 respectively. Operation of the Stevedoring Industry (Temporary Provisions) Act, initially for a period of three years, was extended in 1970, 1972, 1973 and 1974 and is currently due to expire on 30 June 1976.

In July 1970 the National Stevedoring Industry Conference was given a statutory basis and redesignated the Stevedoring Industry Council. The Council is constituted along the same lines as the National Stevedoring Industry Conference. Its functions are primarily to advise the Minister for Employment and Industrial Relations on the operation of the existing employment arrangements, the development of new employment schemes and such other matters as the Minister might refer to it. It is also required to endeavour to bring about amicable agreement in relation to industrial questions in the industry. The statutory provisions relating to the industry are now contained in the Stevedoring Industry Act 1956, the Stevedoring Industry Act 1965, the Stevedoring Industry (Temporary Provisions) Act 1967, the Stevedoring Industry Charge Act 1947, the Stevedoring Industry Charge Assessment Act 1947 and Division 4 of Part III of the Conciliation and Arbitration Act 1904.

Trade Practices Act 1974 (Part X-Overseas Cargo Shipping)

The Overseas Cargo Shipping provisions of the Trade Practices Act are administered by the Minister for Transport.

The principal object of the Overseas Cargo Shipping provisions is the control of the operations of shipping conferences (associations into which shipowners have traditionally combined) and of individual shipowners in relation to the carriage of goods by sea from Australia to other countries. To achieve that object the provisions are designed to facilitate negotiations between shipowners and 'The Australian Shippers' Council', an association, designated under the Act by the Minister, that represents the interests of shippers and producers of goods exported from Australia.

Regarding shipping conferences, the provisions require certain agreements of a specified character between shipowners operating in the outward trades from Australia to be filed with the Clerk of Shipping Agreements. A shipowner who is a party to such an agreement may be requested, by the Minister, to give to the Minister an undertaking to negotiate with the Council with regard to the arrangements for, and the terms and conditions that are applicable to, cargo shipping to which the agreement relates. Whether such a shipowner has failed so to negotiate or whether the services provided pursuant to the agreement are adequate, efficient or economical, are matters that may be referred by the Minister for enquiry and report by the Trade Practices Tribunal. Certain powers are vested in the Governor-General to disapprove the agreement after consideration of a report by the Tribunal to the Minister. A probable effect of such a disapproval would be to force a shipowner party to the agreement to carry on its business in the absence of any agreement with other shipowners. The Governor-General may, however, in his discretion approve such a shipowner entering into another agreement.

Provisions, similar to the provisions in respect of shipping conferences, apply in respect of individual shipowners. In addition, an individual shipowner may, as a result of a declaration by the Governor-General, be prohibited from engaging in certain specified activities in carrying on its business, for example engaging in freight cutting with the object of substantially damaging the business of another shipowner.

The provisions also protect the rights of efficient Australian flag operators to participate to a reasonable extent in overseas cargo shipping.

Maritime Industry Commission of Inquiry

The Commission was established in September 1973 with the following terms of reference:

To ensure that the development of the Australian maritime industry proceeds in harmony with the overall transportation policies and general economic and social aims of the Government and that that development should have full regard to the encouragement of the best use of manpower resources, the application of modern technological developments and the promotion of safe and efficient working operations.

To inquire into, and report upon, all matters related to the development of the Australian maritime industry, so far as they are matters connected with the peace, order and good government of the Commonwealth and are relevant to the exercise and performance of the powers of the Australian Parliament or the performance of the functions of the Australian Government, and to make recommendations for a comprehensive framework for the long-term development of that industry, having regard to the foregoing objectives and the best overseas' policies and practices and recommendations for the specific programs of action required to achieve those objectives.

The inquiry and recommendations shall include, in addition to all other relevant matters, the following specific matters, namely:

the need for revision and modernisation of existing legislation;

the most appropriate administrative and organisational arrangements for the exercise of operational and safety policies, standards and controls over the maritime industry;

the significance of international treaties, conventions and agreements for the industry, and the need for Australian initiatives in relation thereto;

a desirable program for modernisation and extension of navigational aid systems;

the adequacy of existing port and associated facilities and their future development requirements, having regard to such factors as location, capacity and user needs, and the requirements of interstate and international trade and commerce; and

the training requirements of the industry, including the establishment of an Australian Merchant Marine College.

The Commission completed its work in June 1976, having submitted seven reports as follows:

Report on the Training Requirements of Sea-going Personnel, May 1974;

Report on Navigational Aid Systems, November 1974;

Report on Adequacy of Australia's Ports, February 1976;

Report on Australian Maritime Legislation, June 1976;

Report on Maritime Standards and Controls, June 1976;

Report on International Maritime Conventions, June 1976; and

Report on The Future of the Australian Maritime Industry, June 1976.

Collection and presentation of statistics

Basic documents

From 1 July 1966 shipping statistics have been compiled by the Australian Bureau of Statistics from returns submitted by shipping companies or their representatives to Customs Houses at the various seaports throughout Australia. A return is required for the departure of a vessel from a port as well as for its arrival at that port.

Scope of the statistics

Arrivals and departures of vessels are treated separately in shipping statistics. Not all vessels are included in the statistics as returns are not required for (i) naval vessels; (ii) yachts and other craft used for pleasure; (iii) foreign fishing vessels that neither load nor discharge cargo; (iv) Australian registered fishing vessels operating from Australian ports; (v) geographical survey vessels, seismic survey vessels, oceanographic survey vessels; (vi) offshore oil drilling rigs and vessels servicing them; (vii) vessels of 200 registered net tons and under.

Period covered by the statistics

Monthly shipping statistics relate to vessels arriving at and departing from each port in a calendar month. Annual statistics are published on a financial year basis.

Statistics of vessels

Statistics of vessels are compiled in terms of registered net tonnages. Net tonnage is expressed in units of 100 cubic feet (i.e. 100 cu ft equals 1 ton) and represents the volume of enclosed space which can be utilised for cargo or passengers.

Statistics of vessel movements

Returns show the last or next port of call of a vessel according to whether an arrival or departure at a port is being reported. Each vessel is classified to either the overseas or the coastal fleets serving Australia. This information, supplemented by the voyage of the vessel indicated by ports it visits to load or discharge cargo, is the basis on which each vessel movement is allocated to one of the following classifications: overseas direct; overseas via other States; interstate direct; interstate via ports in the same State; intrastate.

Cargo loaded or discharged

Returns for arrivals show cargo discharged, and for departures cargo loaded, in terms of tonnes or cubic metres, depending on the basis on which freight is charged.

Type of service

Overseas shipping cargo statistics are classified by type of service. Coastal shipping cargo statistics, on the other hand, combine all service types.

For overseas shipping, cargo shipped in liners is shown separately from cargo shipped in tramps, bulkships and tankers. A liner is a vessel which, on the voyage on which cargo is loaded or discharged at an Australian port, is operated to provide services on a specified route on a relatively regular basis.

Statistics of cargo shipped in liner services do not necessarily provide a measure of cargo carried by ships operating under shipping conference arrangements. For example, liner services may be provided by shipping companies which are not parties to conference agreements. Cargo may also be shipped under shipping conference conditions in vessels operating on a voyage charter basis for specific cargo, and, in the statistics, such cargo is classified as cargo shipped in tramp vessels.

Country of loading or discharge of overseas cargo

In statistics of overseas shipping cargo, country of loading or discharge of cargo is the country of location of the port where the cargo was loaded on to, or is to be discharged from, a reporting vessel. The countries shown are not necessarily the countries of origin or ultimate destination of

cargo because previous or subsequent transhipments of cargo are not taken into account. The statistics of cargo classified by the country in which it was loaded or discharged cannot therefore be compared directly with statistics of overseas trade classified by country of origin or consignment.

Transhipments of cargo within Australia

The State of loading or discharge shown in the statistics is the State in which cargo is loaded onto, or discharged from, reporting vessels. Cargo loaded in a given State can therefore include cargo previously shipped interstate, while cargo discharged can include cargo which would subsequently be shipped interstate.

Units of measurement

Deadweight tonnage. A measure of the total mass (weight) of cargo, fuel, potable water, boiler feed water, ballast, stores, crew and their gear, etc. It is equal to loaded displacement tonnage less light displacement tonnage.

Gross tonnage. A measure of the enclosed internal volume of a ship and its superstructure, with certain spaces exempted. It is also an indicator of the total volumetric size of a ship.

Net tonnage. A volumetric measure consisting of the gross tonnage less the volume of nonearning spaces, e.g. master's cabin, crew accommodation, wheelhouse, galley, etc., and an allowance for machinery spaces. Volumetric measurement of ships have not yet been converted to metric.

Overseas shipping

Total movement

The following table shows the sum of the number of vessels entered and cleared direct from and to overseas countries, and the aggregate net tonnage involved.

OVERSEAS SHIPPING: VESSELS ENTERED AND CLEARED (COMBINED), AUSTRALIA(a)

| | | | 1970-71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|------------------------------------|---|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Number of vessels Net tonnage . | : | '000 tons | 11,054 102,219 | 10,886 106,636 | 11,278 124,659 | 11,844 143,148 | 12,395 159,577 |

⁽a) Excludes vessels of 200 net tons and under.

Particulars of the total overseas movement of shipping for each year from 1822 to 1920-21 were published in Year Book No. 15, page 507, those for each year from 1921-22 to 1950-51 in Year Book No. 40, page 97, while those for each year from 1947-48 are shown in the Statistical Summary of this Year Book.

Total overseas shipping

The following table shows, for each State and the Northern Territory, the number of vessels entered and cleared direct from and to overseas countries, and the aggregate net tonnage involved.

OVERSEAS SHIPPING: VESSELS ENTERED AND CLEARED(a)

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|-----------|---------------|--------|-------|--------|-------|--------|-------|-------|--------|
| Entered . | . number | 1,598 | 708 | 1,136 | 321 | 2,049 | 188 | 184 | 6,184 |
| | '000 net tons | 15,394 | 4,877 | 14,320 | 2,535 | 37,855 | 2,664 | 2,668 | 80,313 |
| Cleared . | . number | 1,324 | 606 | 1,373 | 355 | 2,240 | 134 | 179 | 6,211 |
| | '000 net tons | 12,764 | 4,384 | 16,131 | 2,305 | 39,470 | 2,330 | 2,401 | 79,786 |

⁽a) Excludes vessels of 200 net tons and under.

Country of registration of overseas shipping

Particulars of overseas shipping which entered Australian ports are given in the following table according to country of registration of vessels.

OVERSEAS SHIPPING: VESSELS ENTERED DIRECT, BY COUNTRY OF REGISTRATION, AUSTRALIA(a)

('000 net tons)

| Country of revessels | gistra | ition | of | | 1972-73 | 1973-74 | 1974-75 | Country of registration of vessels | _ | 1972-73 | 1973-74 | 1974-75 |
|----------------------|--------|-------|-------|-----|------------|------------|--------------|------------------------------------|---|----------------|------------------------|----------------|
| Australia Denmark | | | | | 358 909 | 331 884 | 398 1.022 | Panama | | 1,159 1,143 | 2,23 <u>5</u> 1,423 | 3,189 1,506 |
| France . | • | • | • | • | 533 | 171 | 1,022 | United Kingdom | : | 11,246 | 10.828 | 12.263 |
| Germany, Fe | deral | Rep | ublic | of. | 2,022 | 2,377 | 2,575 | United States of America | • | 308 | 618 | 860 |
| Greece . | | | • | | 3,179 | 4,957 | 4,248 | Other countries | ٠ | 4,289 | 5,078 | 7,061 |
| Hong Kong | | | | | 262 | 229 | 345 | | | | | |
| India . | | | | | 607 | 1,496 | 1,548 | All countries— | | | | |
| Italy . | | | | | 752 | 913 | 978 | In cargo | | 17,736 | 19,558 | 19,764 |
| Japan . | | | | | 19,900 | 20,751 | 22,904 | Proportion of total % | | 28.3 | 27.1 | 24.6 |
| Liberia . | | | | | 8.044 | 10.077 | 11.876 | In ballast | | 44.892 | 52,484 | 60,549 |
| Netherlands | | | | | 1.061 | 1.181 | 1.218 | Proportion of total % | | 71.7 | 72.9 | 75.4 |
| New Zealand | | | | | 328 | 363 | 289 | , | | | • | |
| Norway. | | | | | 6,528 | 8.130 | 7,909 | Grand Total . | | 62,628 | 72,042 | 80,313 |

(a) Excludes vessels of 200 net tons and under.

Australian registered tonnage which entered Australian ports from overseas during the year 1974-1975 represented 0.50 per cent of the total tonnage entered.

Interstate shipping

Interstate movement

Interstate direct. The following table shows the number of coastal vessels entered and the net tonnage recorded into each State and the Northern Territory from any other State during 1974-75. The statistics below are not comparable with those for years prior to 1969-70 because the method of applying the classifications 'overseas' and 'interstate' has been changed. Before July 1969 movements of overseas vessels carrying cargo between two Australian States were classified as 'interstate direct' and were, therefore, included in these statistics. Since July 1969 overseas vessels carrying cargo between two Australian States have been classified as 'overseas via States' and are, therefore, excluded from these statistics. The difference in treatment arose from the practice of classifying movements between two Australian States on the basis of port of loading and port of discharge, whereas the current method classifies these movements on the basis of whether the vessel is considered to be an overseas or a coastal one. Total interstate movements by coastal and overseas vessels are shown in Total interstate movements below.

INTERSTATE MOVEMENT: COASTAL VESSELS ENTERED INTERSTATE DIRECT 1974–75(a)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|-------------------------------|--------|------|-----|------|------|------|------|--------------------------|
| Number of vessels Net tonnage | | | | | | | | 4, 5 94 25,905 |

⁽a) Excludes vessels of 200 net tons and under.

Overseas via States. The figures in the following table show the number and aggregate net tonnage of overseas vessels entered and cleared which, having arrived at an Australian port direct from an overseas port, continue their voyages from/to overseas countries via other Australian States. The statistics in the following table are not comparable with those prior to 1 July 1969 because of the change in method of classifying some overseas vessel movements referred to under *Interstate direct*, see above.

INTERSTATE MOVEMENT: OVERSEAS VESSELS ENTERED AND CLEARED VIA OTHER AUSTRALIAN STATES, 1974-75(a)

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|---------|---------------|--------|-------|-------|-------|-------|-------|------|--------|
| Entered | . number | 1,522 | 1,388 | 1,111 | 702 | 813 | 352 | 56 | 5,944 |
| | '000 net tons | 10,627 | 8,933 | 6,986 | 4,221 | 6,174 | 1,644 | 621 | 39,205 |
| Cleared | number | | 1,495 | 857 | 666 | 637 | 404 | 61 | -, |
| | '000 net tons | 13,347 | 9,466 | 4,953 | 4,438 | 4,872 | 1,948 | 341 | 39,366 |

Total interstate movement. The following table shows, for each State and the Northern Territory, the total number of vessels entered from and cleared for other States during the year 1974-75 together with the aggregate net tonnage.

INTERSTATE MOVEMENT: TOTAL VESSELS ENTERED AND CLEARED, STATES AND NORTHERN TERRITORY, 1974–75(a)

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|-----------|---------------|--------|--------|-------|-------|-------|-------|-------|--------|
| Entered . | . number | 2,577 | 2,726 | 1,619 | 1,224 | 1,110 | 1,602 | 163 | 11,021 |
| | '000 net tons | 18,627 | 15,813 | 9,829 | 7,204 | 9,659 | 4,964 | 1,026 | 67,123 |
| Cleared . | . number | 2,866 | 2,862 | 1,324 | 1,144 | 1,008 | 1,624 | 167 | 10,995 |
| | '000 net tons | 21,070 | 16,648 | 7,558 | 7,093 | 8,838 | 5,068 | 732 | 67,007 |

(a) Excludes vessels of 200 net tons and under.

The following table shows the total interstate movement of shipping, including overseas vessels travelling overseas via States, for Australia.

INTERSTATE MOVEMENT: TOTAL VESSELS ENTERED AND CLEARED, AUSTRALIA (a)

| | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974 –75 |
|---------|---|---------------|---------|---------|---------|---------|-----------------|
| Entered | • | . number | 12,169 | 12,128 | 11,686 | 11,423 | 11,021 |
| | | '000 net tons | 65,141 | 66,140 | 65,363 | 67,182 | 67,123 |
| Cleared | | . number | 12,113 | 12,146 | 11,633 | 11,426 | 10,995 |
| | | '000 net tons | 64,843 | 66,228 | 65,273 | 67,229 | 67,007 |

(a) Excludes vessels of 200 net tons and under.

Australian trading vessels

The following table shows particulars of all Australian trading vessels of 200 gross tons or more engaged in the regular overseas, interstate or intrastate services at 31 December 1975.

AUSTRALIAN TRADING VESSELS OF 200 GROSS TONS OR MORE 31 DECEMBER 1975

(Source: Department of Transport)

| Vessels | Number | Deadweight tonnes | Gross tons |
|--|-----------|----------------------|------------|
| Interstate vessels— | · · · · · | | |
| Australian-owned, Australian-registered | 64 | 1,066,044 | 726,251 |
| Overseas-owned, Australian-registered, engaged in Australian | | | |
| coastal trade— | | | |
| New Zealand-owned | 3 | 10,571 | 10,015 |
| Other | 5 | 147,116 | 94,044 |
| Australian-owned, overseas-registered | 2 | 44,045 | 25,056 |
| Overseas-owned, overseas-registered, on charter, engaged in | | | |
| Australian coastal trade | 12 | 687,640 | 375,661 |
| Total interstate vessels | 86 | 1,955,416 | 1,231,027 |
| Intrastate vessels | 20 | 213,715 | 132,923 |
| Total coastal trading vessels | 106 | 2,169,131 | 1,363,950 |
| Overseas trading vessels— | | | |
| Australian-registered | 9 | 172,114 | 138,855 |
| Overseas-registered | 5 | 110,148 | 69,319 |
| • | | , | • |
| Total overseas trading vessels | 14 | 282,262 | 208,174 |
| Total Australian trading vessels | 120 | 2,451,393 | 1,572,124 |

Shipping at principal ports

For details of Harbour Boards and Trusts in each State see the chapter Public Finance.

The following table shows the total volume of shipping—overseas and coastal—entering the principal ports of Australia.

TOTAL SHIPPING: VESSELS ENTERED AT PRINCIPAL PORTS, AUSTRALIA(a)

| | 1973-7 | 4 | 1974-7 | 5 | | 1973-7 | 4 | 1974-75 | 5 |
|------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|--------|
| Port of entry | Num- ber | Net tons | Num- ber | Net tons | Port of entry | Num- ber | Net tons | Num- ber | Ne |
| | | ,000 | | '000 | | | '000 | | '000 |
| New South Wales— | | | | | Western Australia— | | | | |
| Sydney(b) | 2,971 | 16,577 | 2,925 | 16,481 | Fremantle(d) . | 1,173 | 8,531 | 1,243 | 9,556 |
| Newcastle | 1,144 | 8,369 | 1,377 | 9,093 | Albany | 143 | 863 | 127 | 855 |
| Port Kembla . | 845 | 6,663 | 804 | 7,401 | Bunbury | 144 | 892 | 154 | 937 |
| | | • | | , | Carnarvon | 18 | 32 | 16 | 27 |
| Victoria— | | | | | Geraldton . | 115 | 766 | 109 | 81 |
| Melbourne | 2,524 | 12,709 | 2,608 | 13,059 | Yampi | 110 | 1.031 | 130 | 1,577 |
| Geelong | 458 | 3,282 | 420 | 2,936 | Port Hedland . | 655 | 14,486 | 639 | 15,749 |
| | | -, | | _, | Dampier | 532 | 10,877 | 532 | 12,487 |
| Oueensland— | | | | | | | , | | , |
| Brisbane | 1,302 | 8,068 | 1,246 | 8,573 | Tasmania— | | | | |
| Bowen | 29 | 110 | 26 | 74 | Hobart | 534 | 1,624 | 505 | 1,594 |
| Cairns | 206 | 827 | 176 | 696 | Burnie | 359 | 1,315 | 344 | 1,398 |
| Gladstone | 421 | 6,596 | 429 | 7,005 | Devonport | 448 | 1,299 | 422 | 1,247 |
| Mackay | 211 | 956 | 225 | 1,056 | Launceston | 420 | 2,496 | 413 | 2,314 |
| Rockhampton . | 101 | 391 | 80 | 299 | Port Latta | 43 | 883 | 40 | 716 |
| Townsville | 353 | 1.643 | 328 | 1,700 | 1 1011 20110 | 73 | 003 | 40 | ,,, |
| Weipa | 261 | 4,430 | 285 | 5,337 | Northern Territory- | | | | |
| Weipa | 201 | 4,430 | 203 | 3,337 | Darwin | 162 | 868 | 134 | 670 |
| South Australia— | | | | | Groote Island | 95 | 673 | 96 | 700 |
| Adelaide(c) | 1,117 | 4,039 | 1,108 | 4,087 | Groote Island . | 93 | 0/3 | 90 | /00 |
| D | 1,117 | 681 | 158 | 809 | | | | | |
| D D''. | 163 | 910 | 146 | 863 | | | | | |
| D 11 D | 27 | 120 | 39 | 113 | ì | | | | |
| 337-11 | 29 | 200 | 37 | 270 | | | | | |
| | | | | | | | | | |
| Whyalla | 285 | 2,415 | 311 | 2,369 | l | | | | |

⁽a) Excludes vessels of 200 net tons and under. (b) Includes Botany Bay. (c) Includes Port Stanvac. (d) Includes Kwinana.

Shipping cargo

Overseas and interstate cargo

The table on page 376 shows the aggregate tonnage of overseas and interstate cargo discharged and loaded at principal Australian ports.

CARGO DISCHARGED AND LOADED: AUSTRALIA ('000)

| | Overseas | cargo | | | Interstate cargo | | | | | |
|---------|------------|-----------------|---------|-----------------|------------------|-----------------|--------|-------|--|--|
| | Discharge | ed | Loaded | | Discharge | ed | Loaded | | | |
| Year | Tonnes | Cubic metres | Tonnes | Cubic metres | Tonnes | Cubic metres | Tonnes | Cubic | | |
| 1970–71 | 21,754 | 5,742 | 101,818 | 2,959 | 24,171 | 2,722 | 24,934 | 2,485 | | |
| 1971-72 | 19,505 | 5,865 | 108,047 | 3,161 | 25,801 | 3,087 | 26,387 | 2,799 | | |
| 1972-73 | 20,167 | 6,084 | 132,362 | 3,555 | 27,364 | 3,136 | 28,006 | 2,927 | | |
| 1973-74 | 23,055 | 7,641 | 150,471 | 3,071 | 28,570 | 3,224 | 29,471 | 3,034 | | |
| 1974-75 | 21,893 | 8,029 | 164,866 | 2,926 | 27,864 | 3,201 | 28,454 | 3,143 | | |

CARGO DISCHARGED AND LOADED AT PRINCIPAL PORTS, 1974-75 ('000)

| | | Overseas | cargo | | | Interstate | cargo | | |
|-----------------------------------|--------|--------------|---|-----------------|-----------------|----------------|-----------------|----------------|---|
| | | Discharge | ed . | Loaded | | Discharge | d | Loaded | |
| Port | | Tonnes | Cubic metres | Tonnes | Cubic metres | Tonnes | Cubic metres | Tonnes | Cubic metres |
| New South Wales— | | | | | | | | | |
| Sydney | | 2,936 | 2,520 | 5,394 | 1,105 | 1,887 | 307 | 269 | 248 |
| Botany Bay | | 1,674 | | 43 | ; ; | 3,866 | | . 54 | :: |
| Newcastle Port Kembla | • | 1,438 916 | 18 12 | 10,445 4,202 | 61 | 3,416 6,681 | i 9 | 1,114 1,936 | 18 8 |
| Other | : | 32 | | 319 | 137 | 32 | | 23 | |
| Total New South | Wales | 6,996 | 2,550 | 20,403 | 1,303 | 15,882 | 326 | 3,396 | 273 |
| Victoria— | | | | | | | | | |
| Melbourne | | 1,579 | 3,788 | 1,818 | 1,001 | 1,740 | 1,146 | 1,280 | 1,331 |
| Geelong | | 1,451 | 28 | 1,732 | 43 | 510 | 3 | 833 | 1 |
| Portland | • | 244 | 3 | 121 | • • • | 24 | • • | 7 000 | 12 |
| Westernport Other | : | 82 | • | 1,573 1 | • • • | 350 | i | 7,899 | 16 5 |
| Total Victoria . | | 3,355 | 3,819 | 5,245 | 1,043 | 2,623 | 1,150 | 10,012 | 1,353 |
| Queensland | | | | | | | | | |
| Brisbane | | 944 | 676 | 1,813 | 127 | 3,190 | 19 | 89 | 41 |
| Cairns | : | 57 | | 320 | | 42 | | 18 | |
| Gladstone | | 835 | | 9,026 | | 21 | | 421 | |
| Mackay | • | 68 | :: | 841 | · <u>·</u> ż | 47 | | 115 | |
| Townsville Other | : | 287 58 | 49 | 990 18,332 | 2 1 | 102 31 | | 131 539 | 'i |
| Total Queensland | | 2,249 | 725 | 31,322 | 130 | 3,433 | 19 | 1,313 | 42 |
| | | | | | | | | | |
| South Australia— Port Adelaide | | F25 | 454 | 744 | 107 | | | 200 | 25 |
| Ardrossan | • | 525 | 454 | 744 176 | 197 | 714 | 21 | 206 319 | 25 |
| Port Lincoln | • | 96 | | 690 | 'i | 57 | • • | 37 | |
| Port Pirie | | 39 | • | 550 | | 280 | | 236 | • |
| Port Stanvac | | 1,435 | | 16 | • • | 436 | •• | 411 | |
| Rapid Bay Whyalla | • | 100 | • • | 4 703 | • • | 4 025 | • • | 3 | |
| Other | : | 109 71 | • • | 1,703 859 | | 1,252 . 1 | | 3,151 617 | • |
| Total South Austra | alia . | 2,275 | 454 | 4,738 | 198 | 2,740 | 21 | 4,980 | 25 |
| Western Australia- | | | | | | | | | |
| Fremantle | | 2,522 | 419 | 5,226 | 88 | 1,222 | 7 | 1,813 | 34 |
| Albany | | 261 | | 613 | 2.2 | 1 | | 60 | |
| Bunbury | | 242 | ٠, | 871 | 39 | • • • | • : | 49 | • • |
| Dampier | • | 279 121 | 6 1 | 33,967 857 | • • | 4 | 1 | 60 | |
| Kwinana | • | 1,740 | | 135 | • • • | 124 | • • • | 192 | • |
| Port Hedland | | 83 | · ; | 36,078 | | 12 | | 4,611 | |
| Yampi Other | • | 435 | • • | 3,587 13,110 | 38 | 20 | • • | 143 471 | · . |
| Total Western Aus | tralia | 5,683 | 429 | 94,444 | 165 | 1,383 | 7 | 7,399 | 35 |
| | | | | | | | | | |
| Tasmania— Hobart | | 217 | 24 | 158 | 70 | 649 | 223 | 420 | 163 |
| Burnie | : | 101 | -: | 144 | 2 | 248 | 347 | 392 | 174 |
| Launceston | | 95 | 10 | 1,389 | 10 | 585 | 285 | 199 | 263 |
| Port Latta | | 37 | • • | 2,034 | ٠, | 184 | 737 | 1i i | #0. |
| Other , | • | 34 | • • | 384 | 0 | 184 | 131 | 111 | 786 |
| Total Tasmania . | • | 484 | 34 | 4,309 | 88 | 1,666 | 1,592 | 1,122 | 1,386 |
| Northern Territory— | | | _ | | | _ | | | |
| Darwin | | 219 | 16 | 280 | | 90 | 34 | 229 | 6 |
| Groote Island Gove | • | 631 | i | 1,188 2,937 | • • | 22 26 | 15 36 | 229 | 22 |
| Other | : | | | 2,937 | | | | | |
| Total Northern Ter | ritory | 851 | 17 | 4,405 | | 138 | 85 | 23 <i>I</i> | 29 |
| 10.00.00.00.00.00.00 | | | | | | | | | |

Overseas cargo according to major trade areas and type of service

The following two tables show particulars of cargo loaded in Australia for discharge overseas, and cargo discharged in Australia from overseas, classified according to the major trade areas of the world, by type of shipping service (i.e. liner or tramp, bulkship and tanker).

CARGO LOADED IN AUSTRALIA FOR DISCHARGE OVERSEAS: MAJOR TRADE AREAS BY TYPE OF SERVICE
('000)

| | | | | | Liners(a) | | Tramps, b tankers | ulkships, | All vessels | ; |
|--------------------|-------|--------|--------|-------|------------|------------|----------------------|-----------------|----------------|--|
| Major trade a | rons | | | | Tonnes | Cubic | Tonnes | Cubic metres | Tonnes | Cubic |
| | | | | | | | | | | <i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i> |
| North Americ | ca ai | nd Ha | waii– | - | 700 | 209 | 4,097 | 11 | 4,797 | 220 |
| 1973-74 | • | • | • | • | 627 | 153 | 4,399 | 2 | 5,026 | 155 |
| 1974-75 | • | | : | • | 718 | 144 | 5,547 | 2 | 6,265 | 146 |
| South Americ | ·a | | | | | | | | | |
| 1972-73 | - | | | | 35 | 13 | 787 | 4 | 821 | 17 |
| 1973-74 | ٠ | • | • | • | 15 | 4 | 569 | | 584 | 14 |
| 1974-75 | : | : | : | : | 35 | 29 | 838 | 16 | 873 | 45 |
| Europe (inclu | dina | US! | S.R.)- | | | | | | | |
| 1972-73 | 5 | | ,- | | 1,296 | 771 | 19,560 | 20 | 20,856 | 791 |
| 1973-74 | • | • | • | : | 1,172 | 535 | 21,024 | 1 | 22,196 | 536 |
| 1974-75 | : | : | : | : | 1,119 | 505 | 34,268 | 65 | 35,387 | 570 |
| Africa- | | | | | | | | | | |
| 1972-73 | | | | | 149 | 125 | 1,091 | | 1,240 | 125 |
| 1973-74 | • | • | • | • | 122 | 151 | 1,057 | i5 | 1,179 | 166 |
| 1974-75 | | ÷ | ÷ | ÷ | 100 | 123 | 1,530 | 14 | 1,630 | 137 |
| Asia— | | | | | | | | | | |
| Eastern Asi | a | | | | | | | | | |
| 1972-73 | _ | | | | 1,431 | 540 | 98,471 | 20 | 99,902 | 560 |
| 1973-74 | • | • | • | • | 1,193 | 536 | 113,508 | 12 | 114,701 | 548 |
| 1974-75 | | : | ÷ | : | 1,011 | 453 | 111,095 | 147 | 112,106 | 600 |
| Other Asia- | _ | | | | | | | | | |
| 1972-73 | | | | | 803 | 446 | 2,289 | 212 | 3,092 | 658 |
| 1973-74 | • | • | • | • | 785 | 466 | 3,505 | 143 | 4,290 | 609 |
| 1974-75 | : | : | · | : | 773 | 432 | 5,286 | 147 | 6,059 | 579 |
| Total Asia- | _ | | | | | | | | | |
| 1972-73 | | | _ | | 2,233 | 986 | 100,760 | 232 | 102,993 | 1,217 |
| 1973-74 | Ť | | | • | 1,978 | 1,002 | 117,013 | 155 | 118,991 | 1,157 |
| 1974-75 | | • | | | 1,784 | 885 | 116,381 | 294 | 118,165 | 1,179 |
| Papua New Gi | | | v Zeal | and | | | | | | |
| and Pacific | ıslaı | nas | | | | 4.00= | 1.040 | 00 | 1.00 | |
| 1972-73 | ٠ | • | • | • | 562 | 1,097 | 1,062 | 80 | 1,624 | 1,177 |
| 1973-74 1974-75 | : | • | : | : | 675 887 | 991 819 | 1,786 1,647 | 54 25 | 2,461 2,534 | 1,045 844 |
| Indian Ocean | Icle | ands : | and A | Ant- | | | ý | | * | |
| arctic Area- | | -11-03 | | -111- | | | ± = | _ | | _ |
| 1972-73 | • | • | • | | | • • | 30 | 8 | 30 | 8 |
| 1973-74 | | • | • | | • • | • • | 34 | 8 | 34 | 8 |
| 1974–75 | • | ٠ | • | • | •• | | 12 | 5 | 12 | 5 |
| Total loaded | | | | | 40-1 | | 188 000 | | 100 0/0 | |
| 1972-73 | | • | • | | 4,976 | 3,200 | 127,387 | 355 | 132,362 | 3,555 |
| 1973-74 | | ٠ | • | | 4,588 | 2,835 | 145,883 | 236 | 150,471 | 3,071 |
| 1974–75 | | | | | 4,643 | 2,503 | 160,223 | 424 | 164,866 | 2,927 |

⁽a) Cargo and passenger liners.

CARGO DISCHARGED IN AUSTRALIA FROM OVERSEAS: MAJOR TRADE AREAS BY TYPE OF SERVICE ('000)

| | | | | Li | ners(a) | | Tramps, b | ulkships, | All vessels | |
|----------------------------|--------|-------|----------|-----|------------|-----------------|-----------|-----------------|-------------|-----------------|
| Major trade | areas | | | Te | onnes | Cubic metres | Tonnes | Cubic metres | Tonnes | Cubic metres |
| North Ameri | ica ar | nd Ha | waii— | | | | | | | |
| 1972-73 | | | | | 373 | 709 | 1,619 | 417 | 1,992 | 1,126 |
| 1973–74 | | | | | 605 | 1,031 | 1,903 | 465 | 2,508 | 1,496 |
| 1974–75 | • | • | • | | 617 | 949 | 1,888 | 433 | 2,505 | 1,382 |
| South Ameri | ca— | | | | | | | | | |
| 1972–73 | | | | | 6 | 1 | 12 | | 18 | 1 |
| 1973–74 | | | | | 4 | 6 | 10 | 3 | 14 | 9 |
| 1974–75 | • | ٠ | • | • | 6 | 10 | 14 | 4 | 20 | 14 |
| Europe (incl | uding | U.S.5 | S.R.)— | | | | | | | |
| 1972–73 | | | | | 605 | 1,813 | 355 | 66 | 959 | 1,879 |
| 1973-74 | | | | | 820 | 1,910 | 466 | 226 | 1,286 | 2,136 |
| 1974–75 | • | • | • | • | 666 | 2,211 | 660 | 415 | 1,326 | 2,626 |
| Africa— | | | | | | | | | | |
| 1972-73 | | | | | 102 | 56 | 104 | | 206 | 56 |
| 1973-74 | | | | | 101 | 89 | 97 | 4 | 198 | 93 |
| 1974–75 | • | ٠ | | • | 57 | 67 | 147 | 4 | 204 | 71 |
| Asia— Eastern A | | | | | | | 4.500 | 222 | 0.070 | 1 00.5 |
| 1972-73 | | • | • | • | 497 | 1,507 | 1,782 | 388 | 2,279 | 1,895 |
| 1973-74 | | • | • | • | 404 | 1,865 | 2,410 | 742 | 2,814 | 2,607 |
| 1974–75 | • | ٠ | • | • | 383 | 1,611 | 2,440 | 1,338 | 2,823 | 2,949 |
| Other Asia | | | | | | | | | | *** |
| 1972-73 | | • | • | | 161 | 504 | 11,954 | 76 | 12,115 | 580 |
| 1973-74 | | • | • | • | 215 | 598 | 12,712 | 122 | 12,927 | 720 |
| 1974–75 | • | • | • | • | 189 | 446 | 11,894 | 124 | 12,083 | 570 |
| Total Asia | | | | | | | | | | |
| 1972–73 | | | • | | 658 | 2,011 | 13,736 | 464 | 14,394 | 2,475 |
| 1973-74 | | | | • | 619 | 2,463 | 15,122 | 864 | 15,741 | 3,327 |
| 1974–75 | • | • | • | • | <i>572</i> | 2,057 | 14,334 | 1,462 | 14,906 | 3,519 |
| Papua New (and Pacific | | | w Zealaı | nd | | | | | | |
| 1972-73 | | | | | 228 | 499 | 1,641 | 47 | 1,869 | 546 |
| 1973-74 | | | | | 245 | 513 | 2,084 | 67 | 2,329 | 580 |
| 1974–75 | • | | | | 300 | 385 | 1,640 | 20 | 1,940 | 405 |
| Indian Ocea | | ands | and Ar | nt- | | | | | | |
| 1972-73 | | | | | | | 728 | 1 | 728 | 1 |
| 1973-74 | | | | | | | 979 | 2 | 979 | 2 |
| 1974–75 | | | • | • | 12 | •• | 990 | 2 | 1,002 | 2 |
| Total dischar | ged | | | | 1.055 | £ 000 | 10 105 | 994 | 20 147 | 6,084 |
| 1972-73 | • | • | • | • | 1,972 | 5,090 | 18,195 | | 20,167 | 7,641 |
| 1973-74 | • | • | • | • | 2,394 | 6,012 5,670 | 20,661 | 1,629 | 23,055 | 8,019 |
| 1974-75 | | • | • | • | 2,230 | 5,679 | 19,673 | 2,340 | 21,903 | 0,017 |

(a) Cargo and passenger liners.

Overseas cargo according to country of registration of vessels

The following table shows the total overseas cargo, discharged and loaded combined, according to the country in which the vessels were registered.

OVERSEAS CARGO DISCHARGED AND LOADED, BY COUNTRY OF REGISTRATION OF VESSELS: AUSTRALIA

('000)

| | | | | | 1972-73 | | 1973-74 | | 1974-75 | |
|---------------------|-------|--------------|--------------|---|---------|-----------------|---------|-----------------|---------|-----------------|
| Country of registra | ition | of ves | ssels | | Tonnes | Cubic metres | Tonnes | Cubic metres | Tonnes | Cubic metres |
| Australia . | | . | - | • | 605 | 505 | 387 | 578 | 367 | 503 |
| Denmark . | | | | | 2,103 | 189 | 1,891 | 187 | 2,382 | 221 |
| France | | | | | 1,118 | 142 | 266 | 60 | 158 | 151 |
| Germany, Federal | Rer | oublic | of | | 4,070 | 588 | 4,644 | 686 | 5,465 | 619 |
| Greece . | | | | | 7,299 | 171 | 12,145 | 193 | 9,780 | 132 |
| Hong Kong . | | | | | 635 | 124 | 393 | 108 | 618 | 41 |
| India | | | | | 1,370 | 72 | 3,478 | 92 | 3,590 | 74 |
| Italy | | | | | 1,423 | 66 | 2,023 | 174 | 1,799 | 188 |
| Japan | | | | | 59,719 | 1,013 | 59,873 | 1,351 | 64,576 | 1,830 |
| Liberia | | | | | 19,714 | 223 | 25,057 | 399 | 28,018 | 288 |
| Netherlands . | | | | | 2,330 | 357 | 2,399 | 574 | 2,410 | 430 |
| New Zealand | | | | | 502 | 973 | 613 | 1,047 | 644 | 629 |
| Norway | | | | | 16,284 | 498 | 20,604 | 486 | 18,399 | 538 |
| Panama | | | | | 1,912 | 54 | 3,968 | 64 | 6,021 | 245 |
| Sweden | | | | | 2,573 | 541 | 3,279 | 495 | 3,121 | 465 |
| United Kingdom | | | | | 22,479 | 3,028 | 21,518 | 2,884 | 23,845 | 2,995 |
| United States of A | mer | ica | | | 161 | 237 | 370 | 370 | 1,006 | 378 |
| Other | | | | | 8,232 | 858 | 10,618 | 965 | 14,570 | 1,218 |
| Grand total | | | | | 152,529 | 9,639 | 173,526 | 10,713 | 186,769 | 10,945 |

World shipping tonnage

At 1 July 1975 the total number of steamships and motorships 100 gross tons and upwards throughout the world was 63,724 with a gross tonnage of 342,162,363. Of those totals, steamships numbered 5,957 for 126,183,796 gross tons, and motorships 57,767 for 215,978,567 gross tons. This includes 7,024 oil tankers of 100 gross tons and upwards with a gross tonnage of 150,057,269. Australian steamships and motorships, 419 for 1,205,248 gross tons constituted 0.66 per cent and 0.35 per cent respectively of the total number and gross tonnage. This information has been derived from *Lloyd's Register of Shipping*.

Vessels registered in Australia

The following table shows the number and gross tonnage of trading vessels of 200 tons and over registered in Australia at 31 December 1975, classified according to: (i) year of construction; (ii) type of trade in which the vessels were engaged; and (iii) vessels built in Australian or in overseas shipyards.

AUSTRALIAN-REGISTERED TRADING VESSELS, 31 DECEMBER 1975(a)
(Source: Department of Transport)

| | | Overseas and interstate vessels | | Intrastate vessels | | Built in Australian yards | | Built overseas | | Total | |
|------------------|-----------|---------------------------------------|---------------|-----------------------|---------------|---------------------------------|---------------|-------------------|---------------|-------|---------------|
| Year of con | struction | No. | Gross tons | No. | Gross tons | No. | Gross tons | No. | Gross tons | No. | Gross tons |
| 1971 and e | arlier. | 65 | 719,191 | 15 | 51,831 | 54 | 569,871 | 26 | 201,151 | 80 | 771,022 |
| 1972 | | 4 | 56,682 | 1 | 48,947 | 4 | 82,143 | 1 | 23,486 | 5 | 105,629 |
| 1973 | | 5 | 31,320 | 1 | 15,470 | 6 | 46,790 | | • | 6 | 46,790 |
| 1974 | | 4 | 91,397 | 1 | 15,939 | 4 | 101,394 | 1 | 5,942 | 5 | 107,336 |
| 1975 | | 3 | 30,357 | | ٠ | 1 | 4,174 | 2 | 26.183 | 3 | 30,357 |
| Total tered i | | | • | | | | .,, | _ | , | | · |
| tralia . | | 81 | 928.947 | 18 | 132,187 | 69 | 804,372 | 30 | 256,762 | 99 1 | ,061,134 |

Miscellaneous

Shipping freight rates

List of shipping freight rates for selected commodities are shown in *Overseas and Coastal Shipping* (14.10)

Shipping casualties

Courts of Marine Inquiry are constituted by a magistrate assisted by skilled assessors, and, when necessary, are held at the principal port in each State and at Launceston (Tasmania). Such courts have power to deal with the certificates of officers who are found at fault. Particulars of shipping losses and casualties reported on or near the coast are shown in the table below.

SHIPPING CASUALTIES TO OVERSEAS AND INTERSTATE STEAM AND MOTOR VESSELS(a) AUSTRALIA

| | | Shipping | losses | | Other si | hipping casua | alties | Total shipping casualties | | | |
|---------|--|----------|-------------|---------------|----------|---------------|---------------|---------------------------|-------------|---------------|--|
| Year | | Vessels | Net tons | Lives lost | Vessels | Net tons | Lives lost | Vessels | Net tons | Lives lost | |
| 1970–71 | | | | •• | 79 | 451,196 | 2 | 79 | 451,196 | 2 | |
| 1971–72 | | | | | 91 | 499,195 | 2 | 91 | 499,195 | 2 | |
| 1972–73 | | | | | 61 | 345,102 | | 61 | 345,102 | | |
| 1973–74 | | 5 | 447 | 3 | 78 | 647,157 | 2 | 83 | 647,604 | 5 | |
| 1974-75 | | 5 | 17,470 | 1 | 78 | 1,290,626 | 7 | 83 | 1,308,096 | 8 | |

(a) Vessels over 50 net tons.

RAILWAYS

Government railways

Government railways in Australia operate in all States and Territories and provide an important means of transportation. In 1974–75 a total of 103.5 million tonnes of freight were carried, an increase of 117.9 per cent over the 47.5 million tonnes carried in 1955–56. However, in the same twenty-year period the number of passengers carried (mostly within the suburban areas of Sydney and Melbourne) declined by 34.0 per cent from 515 million in 1955–56 to 340 millions in 1974–75 (excluding Perth metropolitan passenger journeys). The number of train-kilometres run during 1974–75 (151 million) was a decrease of 2.7 per cent since 1955–56, (155 million) which is an indication of the trend towards heavier train loads with the more powerful motive power now available. Since the introduction of the first mainline diesel-electric locomotives in 1950 their numbers have increased greatly until at 30 June 1975 there were 1,455 throughout Australia. Diesel-electric locomotives during 1974–75 hauled 97 million train-kilometres, while steam locomotives hauled only 40 thousand train-kilometres.

Railway development

The first steam-operated railway in Australia ran between Melbourne and Port Melbourne, a distance of three kilometres, and was opened on 12 September 1854. It was owned and operated by the Melbourne and Hobson's Bay Railway. Within a short time privately-owned railways opened in other States, but owing to the small volume of traffic available they were soon in financial difficulties and all were taken over by the respective State Governments. Under the policy of Government ownership and control the railway networks expanded until at 30 June 1941 there were 43,829 route-kilometres open for traffic in Australia. This was the greatest length ever recorded. Since the 1939-45

War many uneconomic branch lines have been closed. From 1 July 1948 to 30 June 1975, 6,507 kilometres have been closed, the greatest lengths being in Western Australia (2,291 kilometres), Queensland (1,561 kilometres), and Victoria (1,003 kilometres). During this same period 3,271 kilometres of new railway were added to the networks. The following table sets out the route-kilometres of government railways in each State and Territory at various dates since 1855.

GOVERNMENT RAILWAYS: ROUTE-KILOMETRES OPEN, 1855 TO 1975 (Kilometres)

| 30 June | N.S.W. | Vic. | Q!d. | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|---------|------------|-------|--------|-------|-------|-------|------|--------|--------|
| 1855(a) | 23 | 3 | • • | 11 | | | | | 37 |
| 1861(a) | 117 | 183 | | 90 | | | | | 390 |
| 1871(a) | 576 | 444 | 351 | 214 | | 72 | | | 1,657 |
| 1881(a) | 1,603 | 2,007 | 1,287 | 1,339 | 148 | 72 | | | 6,456 |
| 1891 . | 3,512 | 4,447 | 3,533 | 2,681 | 319 | 565 | 233 | | 15,290 |
| 1901 . | 4,580 | 5,209 | 4,508 | 2,794 | 2,181 | 735 | 233 | | 20,240 |
| 1911 . | 6,054 | 5,670 | 6,225 | 3,114 | 3.824 | 756 | 233 | | 25,876 |
| 1921 . | 8,116 | 6,867 | 9,257 | 5,485 | 6,425 | 1,014 | 320 | 8 | 37,492 |
| 1931 . | 10,054 | 7,265 | 10,507 | 5,995 | 7,458 | 1,070 | 510 | 8 | 42,867 |
| 1941 . | 10,248 | 7,271 | 10,569 | 6,130 | 7,781 | 1,033 | 789 | 8 | 43,829 |
| 1951 . | 10,226 | 7,154 | 10,557 | 6,124 | 7,535 | 987 | 789 | 8 | 43,380 |
| 1961 . | 10,144 | 6,518 | 10,177 | 6,173 | 7,366 | 832 | 789 | 8 | 42,007 |
| 1971 . | 10,129 | 6,376 | 9,329 | 5,927 | 6,906 | 805 | 789 | 8 | 40,269 |
| 1972 . | 10,129 | 6,357 | 9,560 | 5,829 | 6,846 | 805 | 789 | 8 | 40,323 |
| 1973 . | 10,129 | 6,357 | 9,560 | 5,904 | 6,897 | 830 | 789 | 8 | 40,474 |
| 1974 . | 10,130 | 6,329 | 9,472 | 5,905 | 6,922 | 851 | 789 | 8 | 40.406 |
| 1975 . | 10,131 | 6,331 | 9,780 | 5,909 | 6,805 | 851 | 789 | 8 | 40,604 |

(a) At 31 December,

One feature of the Australian government railways is the variety of gauges to which they are built. There are three principal gauges, 'broad' (1,600 mm), 'standard' (1,435 mm), and 'narrow' (1,067 mm). Extensive route-kilometres of 1,067 mm gauge railway were built in areas where traffic volumes were initially known to be small and where it was imperative to minimise the costs of construction. The following table shows the route-kilometres open in each State and Territory at 30 June 1975 according to gauge.

GOVERNMENT RAILWAYS: ROUTE-KILOMETRES OPEN, BY GAUGE, 30 JUNE 1975 (Kilometres)

| Gauge | | | N.S.W. | Vic. | Qld. | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--------------------------|-------|------|----------|----------|-------|----------|----------|-------|--------|--------|--------|
| 1600 mm . | | | (a)328 | (b)5,992 | | 2,531 | ,. | | | | 8,851 |
| 1435 mm . | | | (c)9,803 | 325 | 111 | (d)1,824 | (e)2,092 | | | (f)8 | 14,163 |
| 1067 mm . | | | | | 9,621 | (g)1,554 | (h)4,713 | 851 | (i)789 | | 17,528 |
| 762 mm . | | | | 14 | | | | | | | 14 |
| 610 mm . | | | | | 48 | | | | • • | | 48 |
| Total | | | 10,131 | 6,331 | 9,780 | 5,909 | 6,805 | 851 | 789 | 8 | 40,604 |
| Per 1,000 of | pop | ula- | | | | | | | | | |
| tion . | ٠. | | 2.12 | 1.72 | 4.90 | 4.79 | 6.06 | 2.10 | 9.01 | 0.04 | 3.01 |
| Per 1,000 squ metre . | аге к | | 12.64 | 27.82 | 5.66 | 6.01 | 2.69 | 12.55 | 0.59 | 3.29 | 5.29 |

⁽a) Portion of Victorian Railway System. (b) Excludes 325 route-kilometres of 1600 mm gauge which almost parallels the 1435 mm gauge line between Melbourne and Murray River. (c) Includes 47 route-kilometres of 1435 mm gauge line from Broken Hill to Cockburn owned and operated by the South Australian Railway systems and 347 kilometres of the Trans-Australian and 349 kilometres of the Central Australia Railway systems and 347 kilometres from Port Pirie to Cockburn. (e) Includes 730 kilometres of the Trans-Australian Railway system. (f) Australian Capital Territory Railway system. (g) Includes 591 kilometres of the Central Australia Railway system. (h) Excludes 127 kilometres of 1067 mm/1435 mm dual gauge line which are included in the 1435 mm gauge line. (f) Comprises 278 kilometres of the Central Australia Railway systems.

Government railway systems

Australia

Prior to 1 July 1975 there were six separate State Government railway systems and the Commonwealth Railways system. On 1 July 1975 the Tasmanian railways and the non-metropolitan South Australian railways were transferred to the Australian Government. As the former Commonwealth Railways included routes in South Australia and Western Australia, and the Victorian system extended into New South Wales, the system route-kilometres shown in the following table do not represent route-kilometres within each State and Territory. These are shown in the previous table. The route-kilometres of each system open for traffic, according to gauge, at 30 June 1975 is shown in the following table.

GOVERNMENT RAILWAYS: ROUTE-KILOMETRES OPEN, BY GAUGE AND SYSTEM 30 JUNE 1975

(Kilometres)

| | | Gauge | | | | | |
|-------------------|--|----------|----------|----------|--------|--------|-------|
| System | | 1600 mm | 1435 mm | 1067 mm | 762 mm | 610 mm | Tota |
| New South Wales | | | (a)9,756 | | •• | | 9,756 |
| Victoria | | (b)6,320 | 325 | | 14 | | 6,659 |
| Queensland . | | | 111 | 9,621 | | 48 | 9,780 |
| South Australia | | 2,531 | 394 | 963 | | | 3,888 |
| Western Australia | | | 1,362 | (c)4,713 | | | 6,075 |
| Tasmania . | | | | 851 | | • • | 851 |
| Commonwealth | | | 2,215 | 1,380 | | | 3,595 |

(a) Includes 446 route-kilometres which are electrified. (b) Excludes 325 route-kilometres of 1600 mm gauge line which almost parallels the 1435 mm gauge line between Melbourne and Murray River. Includes 421 route-kilometres which are electrified. (c) Excludes 127 kilometres of 1067 mm/1435 mm dual gauge line which are included in the 1435 mm gauge line.

17,528

14

40,604

14,163

The New South Wales system is based on Sydney and extends throughout the State. The Victorian system based on Melbourne radiates throughout the State, extending into areas of southern New South Wales. The Queensland system extends along the coast from Brisbane to Cairns in the north, while branch lines extend inland from Brisbane and the larger coastal cities of Rockhampton and Townsville. The Government railway system in Western Australia is concentrated in the southwestern section of the State, and extends north to Meekatharra and east to Kalgoorlie and Esperance. Most of the railways in South Australia are located in the south-east of the State, but an isolated narrow gauge system operates in the Eyre Peninsula area. In Tasmania the main line connects Hobart and Launceston, and there are branch lines along the northern coast.

The former Commonwealth Railways comprised four separate railways. The Trans-Australian Railway, extending from Port Pirie to Kalgoorlie, is of standard gauge, as is that part of the Central Australia Railway from Port Augusta (Sterling North) to Marree. The extension of this railway from Marree to Alice Springs is of narrow gauge, as is the North Australia Railway from Darwin to Birdum. The Australian Capital Territory Railway from Queanbeyan to Canberra is of standard gauge. In this chapter particulars of the four former Commonwealth railways are combined; however, particulars for each railway are shown separately in the annual bulletin Rail, Bus and Air Transport (14.21).

Transfer of State Railways to the Commonwealth Government

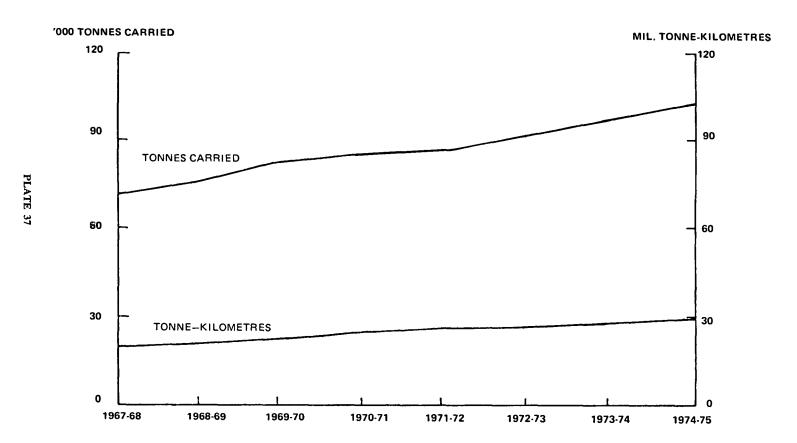
8,851

Commonwealth and State Government legislation was enacted in 1975 for the transfer to the Commonwealth Government of the Tasmanian Government Railways and the non-metropolitan South Australian Railways. Both transfers took effect from 1 July 1975. The Australian National Railways Commission came into existence on this date to control the two transferred systems and the former Commonwealth Railways.

Standardisation of railway gauges

Information about standardisation of railway gauges, completion and commencement dates of services and centres linked are given in Year Book No. 58, 1972, page 348.

GOVERNMENT RAILWAYS 1967-68 TO 1974-75 FREIGHT TRAFFIC



Developments in standardisation

The Commonwealth Government has enacted legislation for the construction of a standard gauge connection between Adelaide and the Trans-Australian Railway at Crystal Brook, and work on this project has commenced. When this link is completed all mainland State capital cities will be connected to the standard gauge network.

The Commonwealth Government has also enacted legislation for the construction of a new standard gauge railway between Tarcoola, on the Trans-Australian Railway, and Alice Springs. Construction of this line is proceeding. It will replace the existing narrow gauge railway between Marree and Alice Springs.

The West Australian Government has converted to standard gauge the existing narrow gauge railway lines between Kalgoorlie and Esperance, and between Kalgoorlie and Leonora.

Operations of Government railway systems

Particulars of train-kilometres, passenger journeys, passenger-kilometres, freight-tonnes carried, and freight tonne-kilometres included in this section refer only to operations for which revenue is received.

Summary of operations

GOVERNMENT RAILWAYS: SUMMARY OF OPERATIONS, SYSTEMS, 1974-75

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwith | Aust. |
|------------------------------------|----|---------|-----------|---------|---------|---------|--------|---------|----------|
| Train-kilometres | | | | | | | | | |
| Suburban passeng | ег | 16,115 | 14,291 | 3,323 | 3,412 | 2,287 | 96 | | 39,524 |
| Country passenger | | 13,673 | 7,815 | 4,076 | 1,991 | 1,486 | 302 | 1,518 | 30,860 |
| Goods(b). | | 25,873 | 11,769 | 22,715 | 4,786 | 9,093 | 1,584 | 4,418 | 80,239 |
| Total | | 55,661 | 33,876 | 30,114 | 10,189 | 12,866 | 1,983 | 5,936 | 150,624 |
| Passenger journeys ('000)(c)— | | | | | | | | | |
| Suburban . | | 167,868 | 112,757 | 34,821 | 11,997 | n.a. | 273 | | n.a. |
| Country(d). | • | 3,976 | 4,963 | 1,811 | 700 | 394 | 156 | 239 | 12,239 |
| Total | | 171,844 | 117,720 | 36,632 | 12,697 | n.a. | 428 | (e)239 | n.a. |
| Passenger-kilometres ('000)(f)— | | | | | | | | | |
| Suburban . | | n.a. | 1,698,614 | n.a. | 158,962 | n.a. | 2,709 | | n.a. |
| Country . | • | n.a. | 701,798 | n.a. | 173,523 | 141,071 | 17,518 | 237,672 | n.a. |
| Total | | n.a. | 2,400,412 | n.a. | 332,485 | n.a. | 20,227 | 237,672 | п.а. |
| Freight- | | | | | | | | | |
| Tonnes carried | | | | | | | | | |
| ('000)(d) | | 33,476 | 11,057 | 30,208 | 6,738 | 16,153 | 1,731 | 4,102 | 103,465 |
| Net tonne-kilometres (million)(g). | • | 8,782.3 | 3,091.4 | 9,118.0 | 1,756.9 | 4,262.4 | 273.3 | 2,507.4 | 29,791.7 |

⁽a) One train (i.e. a complete unit of locomotive and vehicles, electric train set, or rail motor) travelling one kilometre for revenue purposes. (b) Includes mixed train-kilometres. (c) Based on ticket sales making allowances for periodical tickets. Tickets sold at concession rates are counted as full journeys. (d) Inter-system traffic is included in the total for each system over which it passes. (e) Passenger journeys continuing over both the Trans-Australian and Central Australia Railway Systems are counted twice. In 1974-75 these numbered 8,168. (f) One passenger travelling one kilometre. (g) One tonne carried one kilometre.

Rolling stock
GOVERNMENT RAILWAYS: ROLLING STOCK INCLUDED IN CAPITAL ACCOUNT
(Number)

| | | | Locomo | otives | | | | | | |
|------------|---------|------|--------|---------------------|----------|----------|-------|----------------------|----------------|------------------|
| System an | d date | | Steam | Diesel- electric | Electric | Other(a) | Total | Coaching stock(b) | Goods stock | Service stock |
| 30 June 19 | 975— | | | | | | | | | |
| New So | uth W | ales | | 421 | 40 | 85 | 546 | 2,876 | 16,941 | 1,961 |
| Victoria | ٠. | | 19 | 265 | 36 | 81 | 401 | 2,380 | 18,056 | 1,612 |
| Queensl | and | | | 404 | | 85 | 489 | 1,170 | 20,530 | 2,232 |
| South A | ustral | ia | 4 | 151 | | | 155 | 394 | 7,116 | 589 |
| Western | 1 Austi | alia | 2 | 186 | | 23 | 211 | 404 | 11,206 | 567 |
| Tasman | ia . | | 12 | 48 | | 21 | 81 | 116 | 2,178 | 169 |
| Commo | nweal | h | | 98 | | •• | 98 | 58 | 2,753 | 517 |
| Aus | stralia | | 37 | 1,573 | 76 | 295 | 1,981 | (c)7,624 | (c)78,810 | (c)7,614 |
| 30 June- | | | | | | | | | | |
| 1974. | | | 78 | 1,563 | 76 | 294 | 2,011 | 7,870 | 79.086 | 7,723 |
| 1973. | | | 87 | 1,539 | 76 | 291 | 1,993 | 7,982 | 79,913 | 7,800 |
| 1972. | | | 168 | 1,489 | 76 | 267 | 2,000 | 8,178 | 81,135 | 8,033 |
| 1971. | | | 200 | 1,447 | 76 | 256 | 1,979 | 8,183 | 82,279 | 8,141 |

⁽a) Includes non-passenger-carrying diesel power vans. (b) Includes all brake vans and non-powered electric train stock. (c) Includes jointly-owned stock.

Train-kilometres

Train-kilometres by type of service and motive power

GOVERNMENT RAILWAYS: TRAIN-KILOMETRES 1974-75 ('000 kilometres)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwlth | Aust. |
|---|--------|--------|--------|--------|--------|-------|-------|---------|
| Type of service— | | | | | | - | | |
| Passenger—suburban. | 16,115 | 14,291 | 3,323 | 3,412 | 2,287 | 96 | | 39,524 |
| Passenger—country . | 13,673 | 7,815 | 4,076 | 1,991 | 1,486 | 302 | 1,518 | 30,861 |
| Goods(a) | 25,873 | 11,769 | 22,715 | 4,786 | 9,093 | 1,584 | 4,418 | 80,239 |
| Total | 55,661 | 33,876 | 30,114 | 10,189 | 12,866 | 1,983 | 5,936 | 150,624 |
| Type of motive power— Hauled by diesel-elec- | | | | | | | | |
| tric locomotives . | 30,549 | 15,663 | 27,172 | 5,850 | 10,074 | 1,853 | 5,772 | 96,933 |
| Hauled by steam loco- | • | | | | | | | |
| motives | 5 | 20 | 4 | 6 | 2 | 4 | | 40 |
| Hauled by electric and | | | | | | | | |
| other locomotives . | 3,246 | 1,531 | 546 | | | 1 | | 5,323 |
| Powered coaching | • | - | | | | | | - |
| stock | 21,861 | 16,663 | 2,391 | 4,332 | 2,790 | 125 | 164 | 48,328 |
| Total | 55,661 | 33,876 | 30,114 | 10,189 | 12,866 | 1,983 | 5,936 | 150,624 |

⁽a) Includes mixed train-kilometres.

Total train-kilometres

TRAIN-KILOMETRES ('000 kilometres)

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwlth | Aust. |
|---------|---|---|------------|--------|--------|--------|--------|-------|-------|---------|
| 1970-71 | | | 63,633 | 33,524 | 27.951 | 10.210 | 12,785 | 1,764 | 6,453 | 156,320 |
| 1971-72 | | | 61,176 | 33,175 | 29,165 | 10,018 | 12,410 | 1.767 | 6,013 | 153,724 |
| 1972-73 | | | 59,941 | 33,058 | 29,523 | 10,024 | 11,669 | 1,960 | 5,859 | 152,035 |
| 1973-74 | | | 58,255 | 33,345 | 28,542 | 10,313 | 12,617 | 2,154 | 5,966 | 151,192 |
| 1974–75 | • | • | 55,661 | 33,876 | 30,114 | 10,189 | 12,866 | 1,983 | 5,936 | 150,624 |

Passenger traffic

Passenger journeys

GOVERNMENT RAILWAYS: PASSENGER JOURNEYS(a), SYSTEMS ('000)

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwlth | Aust. |
|---------|---|---|-------------------------|---------|--------|--------|--------|----------|-------|---------|
| | - | | | | SUBURB | AN | 1 1 1 | | | |
| 1970-71 | • | • | . 238,800 | 138,131 | 27,621 | 13,393 | 10,557 | 636 | | 429,139 |
| 1971-72 | | | (b)196,097 | 133,840 | 30,184 | 12,918 | 10,800 | 597 | | 384,436 |
| 1972-73 | | | . 194,140 | 108,970 | 30,500 | 12,756 | 11,143 | 559 | | 358,068 |
| 1973-74 | | | . 192,228 | 110,141 | 32,003 | 12,914 | 11,332 | 514 | | 359,132 |
| 1974–75 | | • | . 167,868 | 112,757 | 34,821 | 11,997 | n.a. | 273 | | n.a |
| | | | | | COUNTR | Y(c) | | | | |
| 1970–71 | | | . 15,987 | 4,080 | 1,915 | 553 | 362 | 235 | 259 | 23,391 |
| 1971-72 | | | $.(b)\overline{12,403}$ | 3,954 | 1,762 | 515 | 350 | 189 | 207 | 19,380 |
| 1972-73 | | | . 11,985 | 4,180 | 1,645 | 564 | 376 | 193 | 222 | 19,165 |
| 1973-74 | | | . 6,716 | 4,507 | 1,720 | 683 | 416 | 179 | 263 | 14,485 |
| 1974–75 | • | • | 3,977 | 4,963 | 1,811 | 700 | 394 | 156 | 239 | 12,239 |
| | | | | | TOTAL(| (c) | | <u>-</u> | | |
| 1970–71 | | • | . 254,787 | 142,211 | 29,536 | 13,946 | 10,919 | 871 | 259 | 452,530 |
| 1971-72 | | | (b)208,500 | 137,794 | 31,946 | 13,433 | 11,150 | 785 | 207 | 403,816 |
| 1972-73 | · | | . 206,125 | 113,150 | 32,145 | 13,320 | 11,518 | 752 | 222 | 377,233 |
| 1973-74 | | | . 198,944 | 114,648 | 33,723 | 13,597 | 11,748 | 693 | 263 | 373,618 |
| 1974-75 | _ | | . 171,844 | 117,720 | 36,632 | 12,697 | n.a. | 429 | 239 | n.a. |

⁽a) Based on ticket sales making allowance for periodical tickets. Tickets sold at concession rates are counted as full journeys. (b) Figures for earlier years include unremunerative journeys. (c) Inter-system traffic is included in the total for each system (including each Commonwealth railway) over which it passes.

Passenger-kilometres

GOVERNMENT RAILWAYS: PASSENGER-KILOMETRES(a), SYSTEMS ('000)

| Cwlth | Tas. | W.A. | S.A. | Vic. | | | | Year |
|---------|--------|---------|----------|-----------|---|---|---|---------|
| | | | SUBURBAN | | | | | |
| | 7,279 | n.a. | 170,674 | 2,068,414 | • | • | | 1970–71 |
| | 6,653 | n.a. | 161,979 | 1,941,497 | | | | 1971-72 |
| | 6,609 | n.a. | 172,444 | 1,973,886 | | | | 1972-73 |
| | 5,161 | n.a. | 164,020 | 1,704,902 | | | | 1973-74 |
| ,. | 2,709 | n.a. | 158,962 | 1,698,614 | • | | | 1974–75 |
| | | | COUNTRY | | | | | |
| 227,577 | 19,747 | 124,193 | 147,545 | 611,301 | | | | 1970–71 |
| 207,409 | 16,412 | 115,910 | 131,084 | 534,946 | | | | 1971-72 |
| 209,527 | 17,728 | 126,387 | 139,726 | 561,273 | | | | 1972-73 |
| 262,891 | 18,177 | 149,084 | 173,146 | 651,933 | | | | 1973-74 |
| 237,672 | 17,518 | 141,072 | 173,523 | 701,798 | • | • | | 1974–75 |
| | | | TOTAL | | | | | |
| 227,577 | 27,026 | n.a. | 318,219 | 2,679,715 | | | | 1970–71 |
| 207,409 | 23,065 | n.a. | 293,063 | 2,476,441 | | | | 1971-72 |
| 209,527 | 24,337 | n.a. | 312,170 | 2,535,160 | | | | 1972-73 |
| 262,891 | 23,338 | n.a. | 337,166 | 2,356,835 | | | | 1973-74 |
| 237,672 | 20,227 | n.a. | 332,485 | 2,400,412 | • | • | : | 1974–75 |

⁽a) Particulars for New South Wales, Queensland and the suburban system in Western Australia are not available and as a consequence, no totals for Australia are available.

Freight traffic

Freight carried

GOVERNMENT RAILWAYS: FREIGHT CARRIED(a), SYSTEMS

('000 tonnes)

| Commodity and year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwlth | Aust. |
|------------------------|----------|--------|--------|-------|--------|-------|-------|---------|
| 1974-75— | | | | | | | | |
| Wheat | . 3,100 | 2,021 | 612 | 1,008 | 3,295 | | | 10,036 |
| Other agricultural pro | - | | | | | | | |
| duce | . 1,369 | 890 | 3,037 | 526 | 490 | 14 | 21 | 6,347 |
| Coal, coke and bri | | | | | | | | |
| quettes | . 15,846 | 986 | 19,831 | 10 | 808 | 96 | 1,803 | 39,380 |
| Other minerals(b) | . 3,530 | 334 | 2,455 | 1,924 | 8,290 | 60 | 461 | 17,054 |
| Wool | . 113 | 129 | 36 | 32 | 137 | 3 | 4 | 454 |
| Fertilisers and manur | e 236 | 470 | 178 | 289 | 501 | 67 | 4 | 1,745 |
| Cement | . 844 | 852 | 228 | 64 | 125 | 258 | 117 | 2,488 |
| Timber | . 176 | 242 | 112 | 18 | 293 | 345 | 38 | 1,287 |
| Livestock | . 166 | 255 | 580 | 160 | 67 | 3 | 81 | 1,312 |
| All other commoditie | s 8,096 | 4,878 | 3,139 | 2,644 | 2,147 | 885 | 1,573 | 23,362 |
| Total | . 33,476 | 11,057 | 30,208 | 6,738 | 16,153 | 1,731 | 4,102 | 103,465 |
| 1973–74 | . 32,651 | 11,370 | 25,401 | 6,607 | 14,839 | 1,828 | 4,270 | 96,966 |
| 1972-73 | . 31,044 | 11,475 | 24,666 | 5,781 | 13,706 | 1,554 | 4,255 | 92,481 |
| 1971–72 | . 32,310 | 11,795 | 19,267 | 6,014 | 13,867 | 1,299 | 4,119 | 88,671 |
| 1970–71 | . 33,737 | 12,690 | 15,665 | 6,086 | 13,457 | 1,220 | 4,452 | 87,307 |

⁽a) Inter-system traffic is included in the total for each system (including each Commonwealth railway) over which it passes. (b) Includes sand and gravel.

Freight net tonne-kilometres

GOVERNMENT RAILWAYS: FREIGHT NET TONNE-KILOMETRES, SYSTEMS

(Million)

| Commodity and year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwith | Aust. |
|------------------------|-----------|---------|---------|---------|---------|-------|---------|----------|
| 1974–75— | | | | | | | | |
| | . 1,362.1 | 634.9 | (a) | 161.1 | 910.1 | | 0.1 | (a) |
| Other agricultural pro | | | | | | | | • |
| | . 743.4 | 263.9 | (a) | 84.7 | 134.5 | 2.8 | 18.7 | (a) |
| Coal, coke and bri | | | | | | | | |
| quettes | . 1,245.4 | 178.0 | (a) | 4.0 | 117.4 | 19.5 | 459.5 | (a) |
| Other minerals(b) | . 710.1 | 96.6 | (a) | 418.5 | 1,676.1 | 12.0 | 134.5 | (a) |
| Wool | . 50.7 | 30.7 | (a) | 8.7 | 57.3 | 0.7 | 4.6 | (a) |
| Fertilisers and manur | e 136.0 | 124.3 | (a) | 84.8 | 165.4 | 19.4 | 6.9 | (a) |
| Cement | . 232.5 | 101.5 | (a) | 22.8 | 46.3 | 1.8 | 24.1 | (a) |
| Timber | . 129.8 | 77.0 | (a) | 26.0 | 95.0 | 32.8 | 55.4 | (a) |
| Livestock | . 88.3 | 74.3 | 286.4 | 34.5 | 19.3 | 0.8 | 40.1 | 543.7 |
| All other commodities | s 4,084.0 | 1,510.6 | 8,831.6 | 911.8 | 1,041.0 | 183.5 | 1,762.4 | 18,324.9 |
| Total | . 8,782.3 | 3,091.4 | 9,118.0 | 1,756.9 | 4,262.4 | 273.3 | 2,507.4 | 29,791.7 |
| 1973–74 | . 8,642.5 | 3,126.2 | 7,855.1 | 1,753.1 | 4,142.5 | 277.9 | 2,532.0 | 28,329.3 |
| 1972–73 | . 8,117.6 | 3,164.8 | 7,613.1 | 1,588.4 | 3,686.2 | 210.6 | 2,201.1 | 26,581.7 |
| 1971-72 | . 8,615.2 | 3,264.2 | 6,315.1 | 1,583.0 | 3,447.8 | 169.7 | 2,007.9 | 25,402.9 |
| 1970-71 | . 9,055.9 | 3,464.5 | 5,423.0 | 1,613.8 | 3,397.9 | 154.0 | 2,096.5 | |

⁽a) Not available separately, included with 'All other commodities'. (b) Includes sand and gravel.

Finance

GOVERNMENT RAILWAYS: GROSS EARNINGS(a), SYSTEMS, 1974-75 (\$'000)

| | N. C. W. | 771 | | | | | | |
|-------------------------------------|---------------------|---------|---------|--------|---------|-------|--------------|---------|
| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwlth | Aust. |
| Coaching— | | | | | | | | |
| Suburban passenger . | 52,135 | 28,371 | 4,401 | 2,736 | | 38 | | 87,681 |
| Country passenger . | 16,055 | 11,836 | 4,688 | 2,902 | 3,076 | 193 | 5,270 | 44,020 |
| Other | 9,976 | 5,729 | 2,561 | 1,274 | 2,111 | 334 | 654 | 22,639 |
| Total coaching . | 78,166 | 45,936 | 11,650 | 6,912 | 5,187 | 565 | 5,924 | 154,340 |
| Freight (goods and live- stock)— | | | | | | | | |
| Wheat | (c) | 13,979 | 4,818 | 5,596 | 21,999 | | 1 | n.a. |
| Other agricultural pro- | (-) | , | ., | •,•,• | ,,,,,, | • • | _ | |
| duce | (c) | 5,961 | 15,322 | 2,681 | 3,490 | 107 | 229 | n.a. |
| Coal, coke and bri- | \ - <i>\</i> | -, | | -, | -, | | | |
| quettes | (c) | 4,211 | 73,618 | 65 | 3,911 | 381 | 2,603 | n.a. |
| Other minerals(d) | (c) | 1,691 | 16,035 | 8,324 | 20,456 | 205 | 1,742 | n.a. |
| Wool | (c) | 1,283 | 1,058 | 186 | 2,807 | 31 | 62 | , n.a. |
| Fertilisers and manure | (c) | 2,235 | 1,968 | 1,125 | 3,100 | 554 | 59 | n.a. |
| Cement | (c) | 3,677 | 2,579 | 393 | 1,081 | 975 | 407 | n.a. |
| Timber | (c) | 2,109 | 1,370 | 438 | 2,747 | 984 | 426 | n.a. |
| Livestock | (c) | 1,631 | 7,848 | 1,284 | 609 | 50 | 690 | n.a. |
| All other commodities | (c) | 35,138 | 40,612 | 15,423 | 26,436 | 4,153 | 26,212 | n.a. |
| Total freight (| h)192,947 | 71,915 | 165,228 | 35,515 | 86,636 | 7,440 | 32,431 | 592,112 |
| Miscellaneous . | (b)20,260 | 12,091 | 6,809 | 5,524 | 15,021 | 260 | <i>3,012</i> | 62,977 |
| Grand total (| 5)291,373 | 129,942 | 183,687 | 47,950 | 106,844 | 8,266 | 41,367 | 809,429 |

⁽a) Excludes Government grants. (b) Includes State Co-ordination Tax Contribution. (c) Not available separately (d) Includes sand and gravel.

GOVERNMENT RAILWAYS: WORKING EXPENSES, SYSTEMS, 1974-75 (\$'000)

| | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas.(a) | Cwith | Aust |
|------------------|-----|-----|---------|---------|---------|-------------------|------------|---------|-----------|-----------|
| Maintenance of v | vav | and | | | | | | | | |
| works . | | | 61.656 | 45,517 | 62,896 | (a)18,248 | (a)22.437 | 5,111 | 11,265 | 227,130 |
| Motive power(b) | | | 131,788 | 61,234 | | (a)25,291 | | 6,662 | 16,308 | 361,683 |
| Traffic . | | | 113,675 | 79,671 | | (a)24,430 | | 5,488 | 12,521 | 330,236 |
| Other charges | | | 108,115 | 56,971 | 18,634 | | , | 2,713 | 15,752 | 227,484 |
| Total . | | | 415,234 | 243,393 | 227,925 | (a) 80,466 | (a)103,696 | 19,973 | (a)55,847 | 1,146,534 |

⁽a) Includes provision of reserves for depreciation. (b) Includes maintenance of rolling stock.

GOVERNMENT RAILWAYS: GROSS EARNINGS, WORKING EXPENSES, AND NET EARNINGS, SYSTEMS

(\$'000)

| | | | | (\$ 000 | , | | | | |
|---|---|-------------------------------------|-------------------------------|-------------------------------|----------------------------|--|--|-----------------------------|--|
| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Cwlth | Aust. |
| | | | GR | OSS EAF | RNINGS | | | | |
| : | : | . 251,899 . 266,268 | 108,646 112,685 | 110,165 124,782 | 34,399 35,386 | 60,671 63,634 | 5,805 6,123 | 28,979 29,208 | 600,564 638,086 |
| : | : | . 254,070 . 262,691 . 291,373 | 111,833 115,613 129,942 | 137,745 149,844 183,687 | 35,085 39,531 47,950 | 63,600 78,480 106,844 | 6,835 7,674 8,266 | 37,217 | |
| | | | WOR | KING E | XPENSES | | | | |
| | | 242.842 | 129.054 | 105.155 | (a) 42.714 | (a) 59.652 | (a) 9.891 | (a) 29.382 | 618,690 |
| • | · | . 263,484 | 138,722 | 119,743 | 46,521 | 63,748 | 10,391 | 31,540 | 674,149 |
| | | . 298,180 | 156,120 | 133,384 | 52,320 | 68,223 | | 34,487 | 754,543 |
| • | : | . 415,234 | 243,393 | 227,925 | 80,466 | 103,696 | 15,598 | | 903,281 1,146,534 ————— |
| | | | NE | T EARN | INGS(b) | | | | |
| | | | | 5,010 | 8,315 | 1,019 | -4,086 | | —18,126 26,063 |
| • | • | | | | | | | | —36,063 —114,135 |
| | | . —87,206 | —72 ,986 | -12,257 | -21,216 | -3,436 | —7,924 | 7,206 | 212,231 |
| | | 123,861 | -113,451 | —44,238 | —32,516 | 3,148 | —11,707 | —14,479 | -337,104 |
| | | | | WOR | M.S.W. Vic. Qld GROSS EAF | ## N.S.W. Vic. Qld S.A. GROSS EARNINGS . 251,899 108,646 110,165 34,399 . 266,268 112,685 124,782 35,386 . 254,070 111,833 137,745 35,085 . 262,691 115,613 149,844 39,531 . 291,373 129,942 183,687 47,950 ## WORKING EXPENSES ## WORKING EXPENSES . 242,842 129,054 105,155 42,714 . 263,484 138,722 119,743 46,521 . 298,180 156,120 133,384 52,320 . 349,897 188,599 162,101 60,747 . 2415,234 243,393 227,925 80,466 NET EARNINGS(b) | ### Company Co | ### Company Notes Page 10 | ### Company N.S.W. Vic. Qld S.A. W.A. Tas. Cwlth Company Co |

⁽a) Includes provision of reserves for depreciation. (b) Excess of gross earnings over working expenses as shown in this table.

GOVERNMENT RAILWAYS: SURPLUS OR DEFICIT, SYSTEMS, 30 JUNE 1975 (\$'000)

| | Net earnings —excess of gross | | nts and oth to railways | | gs | Less other expenses charged to railways | | | | | Surplus |
|-------------------|---|-----------------|----------------------------|-------|--------|---|-----------------|----------------------------------|----------|---------|--|
| System | earnings over working expenses | Govern- ment | Road motor earnings | Other | Total | Interest and ex- change | Sinking fund | Road motor expenses (a) | | Total | Surplus (+) or deficit (-) |
| New South Wales | -123,861 | (b)4,686 | | | 4,686 | 37,934 | 8,029 | | (c)1,801 | 47,764 | - 166,939 |
| Victoria | -113,451 | (d)56 | 89 | | 146 | 12,098 | 497 | 386 | | 12,981 | -126,286 |
| Queensland . | - 44,238 | | | | | 43,435 | | | (e)1,534 | 44,969 | — 89,207 |
| South Australia . | -32,516 | (f)40,000 | 364 | | 40,364 | 8,137 | | 520 | (g)949 | 9,606 | -1,758 |
| Western Australia | 3,148 | | 1,465 | | 1,465 | 13,544 | | 2,711 | (h)33 | 16,289 | -11,676 |
| Tasmania | - 11,707 | | · | | | 3,247 | | | ` · · · | 3,247 | - 14,954 |
| Commonwealth . | - 14,479 | | | | | • • • | | | • • | • • | - 14,479 |
| Australia . | -337,104 | 44,742 | 1,919 | | 46,661 | 118,395 | 8,526 | 3,617 | 4,317 | 134,856 | -425,299 |

⁽a) Includes interest and exchange. (b) Grants to meet losses on country developmental lines, and to subsidise payments due to superannuation account. (c) Loan management and loan flotation expenses. (d) Kerang-Koondrook tramway recoup from Treasury. (e) Demolished assets written off. (f) Grants towards deficiency. (g) Interest and repayment under Railway Standardisation and Railway Equipment Agreements. (h) Australian currency revaluation adjustment.

Employment, salaries and wages

GOVERNMENT RAILWAYS: AVERAGE NUMBER OF EMPLOYEES (EXCLUDING CONSTRUCTION STAFF) AND SALARIES AND WAGES PAID(a), 1974-75

| | N.S.W. | Vic.(b) | Qld | S.A. | W.A. | Tas. | Cwlth | Aust. |
|----------------------------------|---------|---------|---------|--------|--------|--------|--------|---------|
| Salaried staff | 8,898 | 5,520 | 3,994 | 1,772 | 2,184 | 354 | 771 | 23,493 |
| Wages staff | 31,152 | 20,454 | 19,520 | 5,748 | 7,633 | 1,637 | 3,452 | 89,596 |
| Total staff . | 40,050 | 25,974 | 23,514 | 7.520 | 9,817 | 1,991 | 4,223 | 113,089 |
| Salaries and wages paid . \$'000 | 330,494 | 198,592 | 186,311 | 64,766 | 74,123 | 15,198 | 33,834 | 903,318 |

⁽a) Excludes salaries and wages paid to road motor staff. (b) Includes construction staff.

Private railways

Private railways are operated over a range of gauges and are to be found in each State of Australia. These systems service agricultural areas, mining ventures, industrial complexes and ports. A range of commodities are carried, including coal, iron ore, other minerals and manufactured products.

Details of location, ownership and operation of the major private railway systems were given in Year Book No. 56, 1970, page 364.

TRAM, BUS, AND FERRY SERVICES

Systems in operation

Tram and trolley-bus. At 30 June 1975 tram services were in operation in Melbourne, Victoria, and in Adelaide, South Australia. The last of the trolley-bus services ceased to operate in Australia with their replacement by buses in Perth, Western Australia, on 29 August 1969. Tram services ceased to operate in Ballarat on 19 September 1971 and in Bendigo on 16 April 1972.

In many parts of Australia private lines used for special purposes in connection with the timber, mining, sugar, or other industries are often called tramways, but they are more properly railways, and the traffic on them has nothing in common with that of the street tram used for the conveyance of passengers, which are dealt with in this section.

Bus. Services are operated by government or municipal authorities and private operators. Statistics are collected for government and municipal bus services located in all State capital cities; Canberra, Australian Capital Territory; Newcastle, New South Wales; Rockhampton, Queensland; Fremantle and the Eastern Goldfields area, Western Australia; Launceston and Burnie, Tasmania; Darwin, Northern Territory; and for country road services operated by the Western Australian Government Railways. Particulars of bus services under the control of private operators for the States of Victoria, Queensland, South Australia and Western Australia are given in the annual bulletin Rail, Bus and Air Transport (14.21).

Ferry. Ferry passenger services are operated in the following States: New South Wales, at Sydney and Newcastle; Western Australia, on the Swan River at Perth; Tasmania, on the Mersey River at Devonport. Control is exercised by both government authorities and private operators. Particulars of the operations of these services are given in previous issues of this Year Book and in the annual bulletin Rail, Bus and Air Transport. In Victoria and Queensland the services operated are not extensive. There are no ferry passenger services in South Australia.

Government and municipal tram and bus services

Because of the development in recent years of the various forms of public road transport under the control of single authorities, and the gradual replacement of tram services by bus services, it is not possible to obtain separate statistics for all phases of the activities of each form of transport, particularly financial operations.

| TRAM AND | BUS SE | RVICES | : GOVERNMEN | T AND | MUNICIPAL |
|----------|--------|--------|--------------|---------|-----------|
| | STATES | SAND | TERRITORIES, | 1974-75 | |

| | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--------------------------|----|------------|---------|---------|--------|--------|--------|--------|------|--------|------------|
| Route-kilometres at 30 | In | ne— | | | | · | | | | | |
| Tram(a) | | kilometres | | 217 | | 11 | | | | | 228 |
| Bus | | , | 000 | 242 | 655 | 754 | 8,374 | 458 | 56 | 322 | 11,859 |
| /ehicle-kilometres- | | . ,, | | | | | 5,5 | | 20 | 322 | 11,0,0 |
| Tram | | . '000 | | 23,840 | | 676 | | | | | 24,516 |
| Bus | | . ,, | 65,900 | | 19,790 | 30,819 | 40,734 | 9,145 | 929 | 8,453 | 187,79 |
| Rolling stock at 30 June | e- | - " | = | , | • | , | | - , | | 0,155 | 101,17 |
| Tram | | number | | 703 | | 26 | | | | | 729 |
| Bus | | | 1,854 | 295 | 610 | 683 | 861 | 302 | 29 | 333 | 4.96 |
| assenger journeys— | | | | | | | | | | | 4,50 |
| Tram | | . '000 | | 111,077 | | 1,252 | | | | | 112,329 |
| Bus | ٠ | . ,, | 192,906 | 22,658 | 50,759 | 57,046 | 59,386 | 20,589 | n.a. | | (b)416,166 |
| Gross revenue(c)— | | | | | | | | | | , | (-,, |
| Tram and bus . | | . \$'000 | 42,510 | 25,471 | 12,337 | 13,427 | 13,865 | 2,916 | 324 | 1,840 | 112,690 |
| Vorking expenses(d)— | | | | | | | | | | • | , |
| Tram and bus . | | . \$'000 | 76,520 | 42,244 | 15,045 | 18,951 | 22,000 | 6,750 | 798 | 5,478 | 187,787 |
| Net revenue— | | | | | | | | | | | ,,, |
| Tram and bus . | | . \$'000 | -34,011 | -16,774 | -2,708 | -5,524 | -8,136 | -3,834 | -473 | -3,638 | -75,098 |
| Employees at 30 June— | - | | | | | | | | | • | , |
| Tram and bus . | | number | 6,844 | 4,575 | 1,476 | 1,668 | 2,087 | 668 | 55 | 456 | 17,829 |
| Accidents | | | | | | | | | | | , |
| Tram and bus(e)— | | _ | | | | | | | | | |
| Persons killed . | | number | 6 | 7 | | | 1 | | | | 14 |
| Persons injured | ٠ | . ,, | n.a. | 389 | 167 | 204 | 399 | 32 | | 54 | (f)1,245 |

⁽a) Gauge 1435 mm throughout. (b) Excludes Northern Territory. (d) Includes provision of reserves for depreciation, etc., where possible. (f) Excludes New South Wales.

Minus sign (-) denotes deficit.

TRAM AND BUS SERVICES: GOVERNMENT AND MUNICIPAL **AUSTRALIA**

| | | 1970-71 | 1971–72 | 1972-73 | 1973–74 | 1974–75 |
|---------------------------|--------------|-----------------|---------|---------|---------|------------|
| Route-kilometres at 30 Ju | ıne | | | | | |
| Tram | . kilometres | 262 | 225 | 228 | 227 | 228 |
| Bus | " | 10,609 | 10,495 | 10,890 | 11,780 | 11,859 |
| ehicle kilometres— | | | | | | • |
| Tram | '000 | 25,806 | 25,180 | 25,119 | 24,555 | 24,516 |
| Bus | " | 177,049 | 170,769 | 172,866 | 179,702 | 187,797 |
| colling stock at 30 June- | _ | | | | | • |
| Tram | . number | 784 | 722 | 734 | 734 | 729 |
| Bus | " | 4,469 | 4,437 | 4,442 | 4,761 | 4,967 |
| assenger journeys— | | | | | | • |
| Tram | '000 | 112,974 | 104,558 | 106,333 | 110,791 | 112,329 |
| Bus | | 447,646 | 398,421 | 410,139 | 417,513 | (a)416,160 |
| iross revenue(b)— | | | | | | , , , |
| Tram and bus . | . \$'000 | 82,510 | 91,015 | 95,171 | 105,149 | 112,690 |
| Vorking expenses(c)— | | | | | | , |
| Tram and bus . | . \$'000 | 96,507 | 103,274 | 117,598 | 146,655 | 187,787 |
| let revenue— | | | | | | - |
| Tram and bus . | . \$'000 | – 13,997 | -12,260 | -22,426 | -41,506 | -75,098 |
| mployees at 30 June— | | | | | | , |
| Tram and bus . | . number | 17,776 | 17,545 | 17,256 | 17,549 | 17,829 |
| ccidents— | | | | | | |
| Tram and bus(d)— | | | | | | |
| Persons killed . | . number | 21 | 22 | 30 | 10 | 14 |
| Persons injured . | *** | 2,459 | 2,275 | 2,732 | 2,587 | (e)1,245 |

⁽a) Excludes Northern Territory. (b) Excludes government grants. depreciation, etc., where possible. (d) Excludes accidents to employees. s. (c) Includes provision of reserve for (e) Excludes New South Wales. Minus sign (-) denotes deficit.

⁽c) Excludes government grants.
(e) Excludes accidents to employees.

JOURNEY TO WORK AND JOURNEY TO SCHOOL

In August 1974, a survey was conducted in conjunction with the quarterly population survey (see Chapter 20, Employment and Unemployment) in order to obtain information about the means by which persons travelled to work and students travelled to school, university or other type of educational institution, the time at which they usually left home, the time they usually spent on the journey and the cost of fares and parking fees (if any) incurred. The results of the survey were published in Journey to Work and Journey to School, August 1974 (17.5). The results of a similar survey conducted in May 1970 were published in Journey to Work and Journey to School, May 1970 (17.5).

MOTOR VEHICLES

The arrangements for the registration of motor vehicles and the licensing of drivers and riders are not uniform throughout Australia, since they are the function of a separate authority, or authorities, in each State and Territory. Particulars of registration, licences, fees payable, etc., in each State and Territory at 31 December 1975 are shown in *Motor Vehicle Registrations*, 1975 (14.1).

Tables in this section include vehicles owned by private individuals, local government authorities, State Governments, and the Australian Government (excluding those belonging to the defence services).

Survey of motor vehicle usage

A survey was conducted throughout Australia in late 1971 by the Australian Bureau of Statistics for the purpose of gathering information on the usage of motor vehicles. This survey was similar to one carried out in 1963. The owners of approximately 51,000 vehicles other than buses were approached for information relating to the usage of their vehicles over the twelve months ended 30 September 1971. In addition, usage details of 800 bus fleets were sampled and collected for the twelve months ended 30 June 1971. The framework, from which the sample was drawn, was obtained from the motor vehicle registration authorities in all States and Territories. The survey was based on respondents' recollections of their usage of the selected vehicles/fleets over their period of ownership during the survey year.

The main purpose of the survey was to determine the total distance travelled by vehicles, classified according to area and purpose of travel. Information was also obtained from the survey on: (i) tonne-kilometres; (ii) average load carried; (iii) vehicle usage (i.e. for hire and reward, ancillary or other); (iv) fuel consumption; (v) road surface; (vi) occupant-kilometres; (vii) driver characteristics.

The following table shows, for Australia, total annual kilometres travelled for the twelve months ended 30 September 1971 according to area and purpose of travel. The percentage standard errors (S.E. %) indicate the extent to which the estimates can vary by chance because only a sample and not the total vehicle population was enumerated. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained from a comparable complete enumeration, and about nineteen chances in twenty that the difference will be less than two standard errors. For example, if an estimate of 3,000 million kilometres has a standard error of 5 per cent (i.e. 150 million kilometres), then there would be approximately two chances in three that a comparable complete collection would give a figure within the range of 2,850 million kilometres to 3,150 million kilometres, and about nineteen chances in twenty that the figure would be within the range of 2,700 million kilometres to 3,300 million kilometres.

TOTAL ANNUAL KILOMETRES TRAVELLED(a) BY PURPOSE AND AREA OF OPERATION, AUSTRALIA, TWELVE MONTHS ENDED 30 SEPTEMBER 1971

| | Laden business | r | Unlader business | - | Total business | r(b) | Paid to and froi work(c) | m | Unpaid and froi work | | Private | | Total | |
|--|--------------------|-----|----------------------|-----|-----------------------|------|--------------------------------|------|----------------------------|-----------|-----------------------|------|-----------------------|-----|
| Area of operation kild | million ometres | | million ilometres | | million kilometres | | million ilometres | | | S.E. % | million cilometres | S.E. | million cilometres | |
| Capital city and envir- ons | 3,566.3 | 1.7 | 1,804.7 | 2.1 | 12,609.2 | 2.5 | 2,396.0 | 5.5 | 9,566.1 | 2.8 | 18,022.6 | 1.9 | 42,594.2 | 1.3 |
| Provincial urban(d). | 512.1 | 4.5 | 318.8 | 6.3 | 1,732.3 | 8.7 | 250.7 | 14.6 | 1,313.2 | 7.8 | 3,234.0 | 4.3 | 6,530.4 | 4.0 |
| Other areas of State or Terri- tory | 3,470.6 | 1.6 | 2,600.4 | 1.8 | 10,523.0 | 2.3 | 685.3 | 12.3 | 2,849.7 | 4.9 | 14,083.0 | 2.1 | 28,141.2 | 1.6 |
| Other States and Terri- tories(e). | 396.9 | 3.6 | 126.7 | 5.1 | 877.4 | 7.3 | 48.4 | 25.7 | 213.7 | 15.0 | 2,095.0 | 5.0 | 3,234.6 | 4.1 |
| Total . ? | 7,945.8 | 1.0 | 4,850.4 | 1.3 | 25,742.1 | 1.7 | 3,380.4 | 5.0 | 13,942.7 | 2.3 | 37,435.1 | 1.2 | 80,501.2 | 0.8 |

⁽a) Excludes kilometres travelled by buses. (b) Includes the total kilometres travelled of cars, station wagons and motor cycles for business purposes. The dissection of business travel into laden/unladen for these vehicles was not sought. (c) For the purpose of this survey 'Paid to and from work' travel is not considered to be business travel. (d) Includes centres (other than capital cities) having populations greater than 40,000 at the 1966 Census of Population and Housing. (e) Covers kilometres travelled by vehicles in all States other than that in which the vehicle was registered.

Motor vehicles on register

Details of motor vehicles on the register are compiled by up-dating motor vehicle census data from information made available by the various motor vehicle registration authorities in the States and Territories. Censuses of motor vehicles have been conducted in respect of 31 December 1955, 31 December 1962 and 30 September 1971. At these census dates considerably greater information concerning the particulars shown in the tables following is available. Final detailed results of the 1971 census have been published in separate census bulletins for each State and Territory and for Australia.

A revised classification of motor vehicles has been adopted for publication of statistics of motor vehicle registrations from 1 January 1972. The principal differences between this classification and that which it replaces involve the categories light commercial type vehicles, trucks and other truck type vehicles. Consequently, figures shown from January 1972 for these categories are not strictly comparable with data for previous periods.

MOTOR VEHICLES ON REGISTER, BY TYPE OF VEHICLE, 31 DECEMBER 1975 ('000)

| | | | Light commercia type vehic | | Trucks (carrying capacity I tonne and over) | | Other truck | | | |
|---------------------------------|---------------|-------------------|----------------------------------|--------|---|------------------|------------------|-------|-----------------|---------|
| State or Territory | Motor cars | Station wagons | open | closed | rigid | articu- lated | type vehicles | Buses | Motor cycles | Total |
| New South Wales . | 1,433.0 | 270.4 | 144.1 | 61.6 | 153.6 | 14.0 | 3.7 | 8.8 | 88.2 | 2,177.2 |
| Victoria | 1,194.9 | 233.0 | 104.1 | 61.8 | 97.1 | 12.4 | 5.3 | 7.1 | 49.4 | 1,765.1 |
| Queensland | 555.7 | 132.9 | 85.1 | 31.0 | 86.3 | 5.6 | 1.4 | 3.5 | 69.6 | 971.2 |
| South Australia . | 420.8 | 70.7 | 37.4 | 13.2 | 43.0 | 3.9 | 3.3 | 3.1 | 33.4 | 628.9 |
| Western Australia . | 350.4 | 73.5 | 49.6 | 24.4 | 58.0 | 3.2 | 3.1 | 3.1 | 28.7 | 593.8 |
| Tasmania | 136.6 | 21.6 | 14.5 | 5.6 | 13.1 | 1.2 | 0.1 | 1.5 | 7.7 | 201.9 |
| Northern Territory. | 20.5 | 8.1 | 6.5 | 2.3 | 8.6 | 0.6 | 0.1 | 0.4 | 5.8 | 52.9 |
| Australian Capital Territory | 76.7 | 13.7 | 5.2 | 3.3 | 4.5 | 0.3 | 0.1 | 0.7 | 6.2 | 110.7 |
| Total | 4,188.5 | 823.8 | 446.5 | 203.1 | 464.2 | 41.2 | 17.1 | 28.3 | 289.1 | 6,501.7 |

MOTOR VEHICLES ON REGISTER, BY TYPE OF VEHICLE **AUSTRALIA** ('000)

| 31 Decer | mber | | Motor cars and station wagons | Light commercial type vehicles, other truck type vehicles and buses | Motor cycles | Total vehicles |
|----------|------|--|--|---|-----------------|-------------------|
| 1971 . | | | 4.057.5 | 982.4 | 164.8 | 5,204.9 |
| 1972 . | | | 4,259.8 | 1,020.5 | 193.4 | 5,474.0 |
| 1973 . | | | 4,520.2 | 1,078.3 | 235.5 | 5,834.1 |
| 1974 . | | | 4,770.6 | 1,131.3 | 274.5 | 6,176.5 |
| 1975 . | | | 5,012.3 | 1,200.3 | 289.1 | 6,501.7 |

MOTOR VEHICLES(a) ON REGISTER PER 1,000 OF POPULATION STATES AND TERRITORIES

| 31 Dece | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|-------------|--|--|--------|-------|-------|-------|-------|-------|-------|--------|-------|
| 1971 . | | | | 390.7 | 398.5 | 406.1 | 430.5 | 432.4 | 420.1 | 347.6 | 436.3 | 403.2 |
| | | | | 403.3 | | | | | | | | |
| 1973 . | | | | 422.9 | 433.5 | 450.2 | 472.6 | 470.3 | 451.0 | 374.1 | 501.1 | 439.7 |
| 1974 . | | | | 439.3 | 452.4 | 466.3 | 485.2 | 485.3 | 468.2 | 619.3 | 534.6 | 458.0 |
| 1975 . | | | | 451.8 | 478.8 | 482.6 | 507.4 | 522.1 | 493.8 | 551.4 | 550.2 | 478.0 |

(a) Excludes tractors, plant and equipment.

Registrations of new motor vehicles

Particulars of registrations of new motor vehicles are shown by type, make, and horsepower of vehicle in monthly, quarterly and annual bulletins of Motor Vehicle Registrations.

In these statistics 'registrations' mean registrations processed by the motor vehicle registration authorities in the States and Territories during the period.

A revised classification of motor vehicles has been adopted for publication of statistics of new motor vehicle registrations from 1 January 1972. The principal differences between this classification and that which it replaces involve the categories light commercial type vehicles, trucks and other truck type vehicles. Consequently, figures shown from January 1972 for these categories are not strictly comparable with data for previous periods.

REGISTRATIONS OF NEW MOTOR VEHICLES, BY TYPE OF VEHICLE

| See To to | • | | Light con | | Trucks (c capacity and over) | l tonne | Other truck | | Total (excludes | |
|-----------------------------|---------------|-------------------|-----------|--------|------------------------------------|------------------|------------------|--------|--------------------|-----------------|
| State or Territory and year | Motor cars | Station wagons | open | closed | rigid | articu- lated | type vehicles | Buses | motor cycles) | Motor cycles |
| 1975— | | | | | | | | | | |
| New South Wales . | 143,115 | 25,046 | 13,657 | 13,167 | 11.052 | 1,127 | 137 | 1,299 | 208,600 | 20,237 |
| Victoria | 100 173 | 18,043 | 8,238 | 8,656 | 7,100 | 967 | 146 | 805 | 152,128 | 8,719 |
| Queensland | 52,052 | 9,943 | 8,216 | 5.256 | 7,278 | 526 | 20 | 218 | 83,509 | 15,519 |
| South Australia . | 42,045 | 6,027 | 3.761 | 2,942 | 2,768 | 427 | 33 | 269 | 58,272 | 7,655 |
| Western Australia | 34,755 | 6,797 | 5,101 | 4,458 | 3,867 | 348 | 52 | 383 | 55,761 | 6,214 |
| Tasmania | 13,130 | 2,051 | 1,228 | 1,249 | 1,004 | 133 | 16 | 215 | 19,026 | 2,254 |
| Northern Territory | 1,744 | 695 | 861 | 290 | 1,168 | 46 | 9 | 1 48 | 4,861 | 947 |
| Australian Capital | -, | | | -, 0 | 1, | | • | 1 .0 | ., | |
| Territory | 7,567 | 1,441 | 567 | 740 | 487 | 30 | 8 | 218 | 11,058 | 920 |
| Australia . | 402,581 | 70,043 | 41,629 | 36,758 | 34,724 | 3,604 | 421 | 3,455 | 593,215 | 624,465 |
| 1974 | 413,674 | 61,924 | 43,932 | 32,259 | 30,131 | 3,473 | 392 | 2,733 | 588,518 | 80,538 |
| 1973 | 402,123 | 57,802 | 43,118 | 30,879 | 31,242 | 3,878 | 375 | 2,441 | 571,858 | 77,222 |
| 1972 | 252 024 | 51,928 | 38,526 | 23,513 | 26,869 | 2,913 | 340 | 2,047 | 500,060 | 54,641 |
| | , | , | (a) | (a) | | a), | (a) | _,• | , | , |
| 1971 | 362,669 | 54,555 | 33,822 | 22,908 | | 900 | 1,263 | 2,394 | 504,511 | 48,786 |
| | | . ,,,,,, | ,022 | ,,, | , | | -,505 | _,_, . | , | , |

Drivers' and riders' licences

At 30 June 1975 the numbers of licences in force to drive or ride motor vehicles were: New South Wales, 2,513,321; Victoria, 1,885,874; South Australia, 632,056; Western Australia, 562,724; Tasmania, 194,564; Northern Territory, 27,318; Australian Capital Territory, 110,665. Particulars are not available for Queensland.

ROAD TRAFFIC ACCIDENTS

Compulsory fitting and use of seat belts and protective helmets in Australia

Through the endorsement of the Australian Transport Advisory Council of Australian Design Rules for Motor Vehicle Safety, the fitting of belts in passenger cars and derivatives in each State was made mandatory for new motor vehicles from 1 January 1970 for front seats and from 1 January 1971 for all positions.

The year 1973 saw the completion of laws requiring the compulsory wearing of seat belts, where fitted, in all motor vehicles, and the mandatory use of protective helmets by motor cycle riders and pillion passengers. The dates on which the laws came into effect were as follows:

| | | | Seat belts | Protective helmets |
|--------------------|-------|------|------------------|--------------------|
| New South Wales | | | 1 October 1971 | 1 August 1971 |
| Victoria | | | 22 December 1970 | 1 January 1961 |
| Oueensland . | | | 1 January 1972 | 24 October 1970 |
| South Australia | | | 29 November 1971 | 31 December 1967 |
| Western Australia | | | 24 December 1971 | 1 May 1971 |
| Tasmania . | | | 13 October 1971 | 19 December 1966 |
| Northern Territory | | | 1 January 1972 | 8 November 1972 |
| Australian Capital | Terri | torv | 1 January 1972 | 18 March 1973 |

The laws in force differ between States and Territories on matters such as exemptions and penalties. The exemptions for seat belts relate primarily to delivery men, persons reversing motor vehicles, the elderly, children under the age of 8 years, and persons exempted by a doctor's certificate. There are some minor exemptions for motorcyclists including persons exempted for medical reasons; passengers carried in sidecars in New South Wales, Victoria, South Australia, and Tasmania, persons exempted for religious reasons in New South Wales, and motorcyclists travelling at less than 24 kilometres per hour in South Australia.

The vast majority of belts fitted to vehicles are of the lap-sash type. Recent developments in seat belt design are aimed to improve their comfort to the wearer, their ease of adjustment and their effectiveness.

Accidents involving casualties, persons killed, persons injured

ROAD TRAFFIC ACCIDENTS INVOLVING CASUALTIES(a): NUMBER OF ACCIDENTS, PERSONS KILLED OR INJURED, 1975

| | | | | Per 100,000 mean popul | | | Per 10,000 motor vehicles registered(h) | | |
|--|---------------------------|-------------------|--------------------|---------------------------|-------------------|--------------------|---|-------------------|--------------------|
| State or Territory | Number of accidents | Persons killed | Persons injured | Number of accidents | Persons killed | Persons injured | Number of accidents | Persons killed | Persons injured |
| New South Wales. | 28,217 | 1,288 | 38,141 | 587 | 27 | 794 | 132 | 6 | 178 |
| Victoria | 12,514 | 910 | 17,437 | 340 | 25 | 473 | 73 | 5 | 102 |
| Oueensland | 8,241 | 635 | 11,019 | 412 | 32 | 551 | 87 | 7 | 116 |
| South Australia . | 8,793 | 339 | 12,020 | 710 | 27 | 971 | 143 | 6 | 195 |
| Western Australia. | 5,104 | 304 | 6,832 | 453 | 27 | 606 | 90 | 5 | 120 |
| Tasmania | 1,496 | 122 | 2,137 | 368 | 30 | 525 | 76 | 6 | 109 |
| Northern Territory Australian Capital | 554 | 64 | 789 | 625 | 72 | 891 | 115 | 13 | 164 |
| Territory | 869 | 32 | 1,124 | 452 | 17 | 585 | 83 | 3 | 107 |
| Australia . | 65,788 | 3,694 | 89,499 | 486 | 27 | 661 | 104 | 6 | 141 |

⁽a) Accidents reported to the police which occurred in public thoroughfares and which resulted in death within thirty days or in bodily injury to an extent requiring surgical or medical treatment. (b) Average number of motor vehicles (excluding tractors, plant and equipment) on register.

ROAD TRAFFIC ACCIDENTS INVOLVING CASUALTIES(a): NUMBER OF ACCIDENTS PERSONS KILLED OR INJURED

| | | | | | | | | | | | Total | | |
|--|----------------|----|--|--|--|--|---|---|-----------------------------------|---|--|--|--|
| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Num- ber | Per 100,000 of mean popu- lation | Per 10,000 motor vehicles regis- tered(b) |
| Accidents i | | ng | | | | | | | | | | | |
| 1971 . 1972 . 1973 . 1974 . 1975 . | : | : | 26,575 27,365 29,308 29,853 28,217 | 15,023 14,757 14,485 12,542 12,514 | 8,147 7,863 8,643 8,086 8,241 | 7,386 8,116 9,267 9,469 8,793 | 5,178 4,909 5,404 4,742 5,104 | 1,385 1,371 1,479 1,393 1,496 | 660 592 711 575 554 | 856 777 854 813 869 | 65,210 65,750 70,151 67,473 65,788 | 510 506 533 504 486 | 123 124 112 |
| Persons kil | led— | | | | | | | | | | | | |
| 1971 . 1972 . 1973 . 1974 . 1975 . | : | : | 1,249 1,092 1,230 1,275 1,288 | 923 915 935 806 910 | 594 572 638 589 635 | 292 312 329 382 339 | 332 340 358 334 304 | 130 106 105 111 122 | 50 53 55 44 64 | 20 32 29 31 32 | 3,590 3,422 3,679 3,572 3,694 | 28 26 28 27 27 | 7 6 7 6 6 |
| Persons inj | ur ed — | - | | | | | | | | | | | |
| 1971 . 1972 . 1973 . 1974 . 1975 . | : | : | 36,660 36,814 39,294 40,429 38,141 | 21,371 20,646 20,011 17,539 17,437 | 11,387 10,788 11,660 10,627 11,019 | 10,132 10,997 12,625 12,725 12,020 | 7,328 6,751 7,377 6,277 6,832 | 2,056 1,968 2,103 1,911 2,137 | 926 795 1,012 788 789 | 1,176 1,007 1,122 1,042 1,124 | 91,036 89,766 95,204 91,338 89,499 | 691 723 683 | 168 169 |

Types of road user killed or injured

Responsibility for cause of accident is not indicated by this classification.

ROAD TRAFFIC ACCIDENTS INVOLVING CASUALTIES(a): PERSONS KILLED OR INJURED, TYPES OF ROAD USER INVOLVED, 1975

| Type of road user | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------------------------|----------|--------|--------|--------|-------|-------|------|--------|--------|
| | | P | ERSONS | KILLE | D | | | | |
| Drivers of motor vehicles | 475 | 341 | 225 | 136 | 122 | 48 | 20 | 13 | 1,380 |
| Motor cyclists . | . 142 | 70 | 72 | 30 | 24 | 13 | 8 | 6 | 365 |
| Pedal cyclists . | . 21 | 16 | 22 | 14 | 7 | 3 | | 2 | 85 |
| Passengers (all types)(b) | . 388 | 287 | 209 | 98 | 94 | 36 | 27 | 8 | 1,147 |
| Pedestrians | . 257 | 194 | 107 | 61 | 52 | 22 | 9 | 3 | 705 |
| Other classes(c) . | . 5 | 2 | | | 5 | | | | 12 |
| Total | . 1,288 | 910 | 635 | 339 | 304 | 122 | 64 | 32 | 3,694 |
| | | PI | ERSONS | INJURI | ED | | | | |
| Drivers of motor vehicles | 14,468 | 6,756 | 3,927 | 4,663 | 2,867 | 798 | 277 | 439 | 34,195 |
| Motor cyclists . | . 4,483 | 1,598 | 1,804 | 1,738 | 678 | 221 | 135 | 197 | 10,854 |
| Destal and Park | . 754 | 590 | 359 | 529 | 204 | 47 | 10 | 50 | 2,543 |
| Passengers (all types)(b) | . 14,004 | 6,649 | 4,074 | 4,209 | 2,389 | 866 | 319 | 368 | 32,878 |
| | . 4,369 | 1,816 | 849 | 876 | 675 | 204 | 48 | 68 | 8,905 |
| Other classes(c) . | . 63 | 28 | 6 | 5 | 19 | 1 | • • | 2 | 124 |
| Total | . 38,141 | 17,437 | 11,019 | 12,020 | 6,832 | 2,137 | 789 | 1,124 | 89,499 |

⁽a) Accidents reported to the police which occurred in public thoroughfares and which resulted in death within thirty days or in bodily injury to an extent requiring surgical or medical treatment. (b) Includes pillion riders. (c) Includes bystanders, tram-drivers, riders of horses and drivers of animal-drawn vehicles.

⁽a) See footnote (a) to previous table. (b) See footnote (b) to previous table.

Age groups of persons killed or injured

ROAD TRAFFIC ACCIDENTS INVOLVING CASUALTIES(a): PERSONS KILLED OR INJURED BY AGE GROUP, 1975

| Age group (years) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------------------|----------|--------|--------|---------|-------|-------|------|--------|--------|
| | |] | PERSON | S KILLE | D | | | | |
| Under 5 | . 49 | 34 | 29 | 11 | 15 | 3 | 3 | 2 | 146 |
| 5 and under 7 . | . 16 | 12 | 11 | 5 | 4 | 2 | 1 | | 51 |
| 7 ,, ,, 17 . | . 105 | 74 | 62 | 34 | 29 | 11 | 4 | 3 | 322 |
| 17 ,, ,, 21 . | . 255 | 187 | 132 | 70 | 64 | 43 | 2 | 11 | 764 |
| 21 ,, ,, 30 . | . 272 | 203 | 125 | 60 | 58 | 25 | 29 | 7 | 779 |
| 30 ,, ,, 40 . | . 131 | 86 | 75 | 27 | 38 | 7 | 10 | 1 | 375 |
| 40 ,, ,, 50 . | . 109 | 78 | 62 | 32 | 36 | 11 | 5 | 3 | 336 |
| 50 ,, ,, 60 . | . 121 | 72 | 54 | 39 | 18 | 1 | 3 | | 308 |
| 60 and over | . 221 | 163 | 85 | 61 | 42 | 19 | 4 | 5 | 600 |
| Not stated | . 9 | 1 | • • | • • | | • • | 3 | • • | 13 |
| Total | . 1,288 | 910 | 635 | 339 | 304 | 122 | 64 | 32 | 3,694 |
| | | P | ERSONS | INJURI | ED | | | | |
| Under 5 | . 1,298 | 591 | 330 | 307 | 218 | 72 | 25 | 33 | 2,874 |
| 5 and under 7 . | . 704 | 310 | 175 | 174 | 147 | 45 | 6 | 14 | 1,575 |
| 7 ,, ,, 17 . | . 4,298 | 2,013 | 1,398 | 1,686 | 731 | 357 | 87 | 140 | 10,710 |
| 17 ,, ,, 21 . | . 8,650 | 3,895 | 2,995 | 2,826 | 1,520 | 601 | 136 | 292 | 20,915 |
| 21 ,, ,, 30 . | . 9,209 | 4,219 | 2,548 | 2,334 | 1,501 | 450 | 271 | 290 | 20,822 |
| 30 ,, ,, 40 . | . 4,303 | 1,893 | 1,071 | 1,032 | 725 | 184 | 132 | 119 | 9,459 |
| 40 ,, ,, 50 . | 3,364 | 1,417 | 795 | 804 | 545 | 144 | 48 | 82 | 7,199 |
| 50 ,, ,, 60 . | . 2,863 | 1,259 | 697 | 693 | 423 | 127 | 40 | 56 | 6,158 |
| 60 and over | . 2,982 | 1,348 | 829 | 669 | 474 | 144 | 21 | 45 | 6,512 |
| Not stated | . 470 | 492 | 181 | 1,495 | 548 | 13 | 23 | 53 | 3,275 |
| Total | . 38,141 | 17,437 | 11,019 | 12,020 | 6,832 | 2,137 | 789 | 1,124 | 89,499 |

(a) See footnote (a) to previous table.

Types of accidents

ROAD TRAFFIC ACCIDENTS INVOLVING CASUALTIES(a)

NUMBER OF ACCIDENTS AND PERSONS KILLED OR INJURED, BY TYPE OF ACCIDENT, 1975

| Type of accident | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--|-------------|--------------|-----------|-------------|-----------|---------|---------|-----------|---------------|
| | | NUM | IBER O | F ACCID | ENTS | | | | |
| Collisions between vehicles | 16,116 | 7,003 | 4,273 | 5,298 | 2,737 | 792 | 256 | 514 | 36,989 |
| Vehicle overturning or leaving road | 3,381 | 906 | 2,495 | 1,340 | 1,420 | 422 | 154 | 164 | 10,282 |
| Vehicle colliding with pedestrian Vehicle colliding with | 4,212 | 1,819 | 905 | 894 | 708 | 214 | 51 | 67 | 8,870 |
| fixed object(b). Passenger accidents Vehicle colliding with animal Other. | 4,108 78 | 2,441 142 | 375 48 | 1,115 41 | 144 28 | 52 6 | 74 5 | 104 14 | 8,413 362 |
| | 291 31 | 101 102 | 128 17 | 78 27 | 54 13 | 9 1 | 14 | 6 | 681 191 |
| Total | 28,217 | 12,514 | 8,241 | 8,793 | 5,104 | 1,496 | 554 | 869 | 65,788 |
| | | P | PERSONS | S KILLE | D | | | | |
| Collisions between ve- | | | | | - | | | | |
| hicles | 562 | 389 | 266 | 143 | 101 | 56 | 19 | 18 | 1,554 |
| Vehicle overturning or leaving road Vehicle colliding with | 172 | 73 | 238 | 90 | 140 | 41 | 17 | 3 | 774 |
| pedestrian Vehicle colliding with | 243 | 190 | 104 | 60 | 52 | 22 | 8 | 3 | 682 |
| fixed object(b). Passenger accidents. | 301 8 | 242 8 | 16 4 | 41 2 | 6 2 | 1 2 | 16 2 | 7 1 | 630 29 |
| Vehicle colliding with animal Other | 2 | 3 5 | 5 2 | | 3 | | 2 | | 15 10 |
| Total | 1,288 | 910 | 635 | 3 339 | 304 | 122 | 64 | 32 | 3,694 |
| | | | | | | | | | |
| | | PI | ERSONS | INJURE | D | | | | |
| Collisions between vehicles | 23,461 | 10,728 | 6,144 | 7,599 | 3,918 | 1,249 | 380 | 708 | 54,187 |
| Vehicle overturning or leaving road Vehicle colliding with | 4,544 | 1,285 | 3,326 | 1,890 | 1,928 | 601 | 244 | 198 | 14,016 |
| pedestrian . Vehicle colliding with | 4,254 | 1,708 | 861 | 891 | 682 | 206 | 47 | 67 | 8,716 |
| fixed object(b). Passenger accidents. | 5,432 75 | 3,339 145 | 464 44 | 1,466 48 | 196 26 | 65 4 | 93 3 | 131 13 | 11,186 358 |
| Vehicle colliding with animal | 343 32 | 121 111 | 163 17 | 96 30 | 66 16 | 11 1 | 22 | 7 | 829 207 |
| Total | 38,141 | 17,437 | 11,019 | 12,020 | 6.832 | 2,137 | 789 | 1,124 | 89,499 |

⁽a) Accidents reported to the police which occurred in public thoroughfares and which resulted in death within thirty days or in bodily injury to an extent requiring surgical or medical treatment. (b) Includes parked vehicles.

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ROADS

Summary of roads used for general traffic

Proclaimed or declared roads. The table following is a summary of the roads proclaimed or declared under the Acts of the several States relative to the operations of the central road authorities, and shows the lengths of various classes proclaimed or declared as at 30 June 1975. The central road authority in each State assumes responsibility under the Act for the whole, or a proportion, of the cost of construction and/or maintenance of these roads, the extent varying from State to State and with the class and locality of the roads. Before proclamation of a main road, consideration is given, in general, to the following points: availablity of funds; whether the road is, or will be, within one of several classes of main trunk routes; the value of the roads as connecting links between centres of population or business; whether the district is, or will be, sufficiently served by railways. Provision is also made in some States for the declaration of roads other than main roads. The absence of a particular class in any State does not necessarily imply that there are no roads within that State that might be so classified; the classes are restricted only to roads proclaimed or declared under the Acts. A further point to make is that, through various causes, e.g. insufficiency of funds, man-power or materials, etc., construction or maintenance may not keep pace with gazettal of roads, and, therefore, the condition of a road may not match its status.

PROCLAIMED OR DECLARED ROADS: LENGTHS, STATES, 30 JUNE 1975 (Kilometres)

| Class of road | | N.S.W. | Vic.(a) | Qld | S.A. | W.A. | Tas. | Total |
|--|---|---------------------------|--------------------|------------------------|--------|--------|----------------|-----------|
| State highways . Trunk roads Ordinary main roads | : | 10,492 7,081 18,316 | (b)7,262 14,604 | 10,179 126 8,118 | 13,593 | 12,798 | 1,937 1,065 | - 105,571 |
| Total main roads | | 35,889 | 21,866 | 18,423 | 13,593 | 12,798 | 3,002 | 105,571 |
| Secondary roads . | | (c)287 | (| (d)13,763 | | 8,252 | 292 | 22,594 |
| Development roads | | 3,619 | | 7,609 | | | 198 | 11,426 |
| Tourist roads . | | 399 | 801 | | | | 114 | 1,314 |
| Other roads | | 2,566 | (e)1,039 | • • | | •• | | 3,605 |
| Total other roads | | 6,871 | 1,840 | 21,372 | | 8,252 | 604 | 38,938 |
| Grand total . | | 42,760 | 23,706 | 39,795 | 13,593 | 21,050 | 3,606 | 144,510 |

⁽a) As from 1 July 1974 the Country Roads Board acquired the road making powers, roads and relevant staff of the Melbourne and Metropolitan Board of Works. (b) Includes 206 kilometres of freeways constructed by the Country Roads Board. (c) Metropolitan only. (d) Includes mining access roads, farmers' roads and tourist tracks. (e) Forest roads.

Total roads. The following table represents an attempt to classify all the roads open for genera traffic in Australia, at the latest dates available, according to States and Territories and to certain broad surface groups. The figures in the table for the States are obtained from the Deputy Commonwealth Statistician in each State, and are derived mainly from local government sources.

ALL ROADS OPEN FOR GENERAL TRAFFIC LENGTHS, STATES AND TERRITORIES, 30 JUNE 1975 (Kilometres)

| Surface of roa | ıds | Λ | V.S.W.(a) | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | (a)Total |
|--|-----|-----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|-------------------------|--------|--------------------|
| Bitumen or co Gravel, crush or other | | one | 66,878 | 55,789 | 40,044 | 17,617 | 30,666 | 6,937 | 4,652 | 1,437 | 224,020 |
| surface . Formed only Cleared only | | • | 65,499 41,919 14,690 | 45,989 28,177 29,193 | 30,998 61,322 59,451 | 21,211 24,401 37,026 | 31,252 45,267 54,469 | 13,277 778 | 1,597 4,942 9,094 | | 210,198 410,771 |
| Total | | | 188,985 | 159,148 | 191,815 | 100,255 | 161,654 | 20,993 | 20,285 | 1,854 | 844,989 |

Further information on roads, including financial particulars, is included in Chapter 18. Public Finance.

National Association of Australian State Road Authorities

The National Association of Australian State Road Authorities (N.A.A.S.R.A.) was established in 1934 under the title 'Conference of State Road Authorities of Australia', the present name being adopted in 1959. Initially the member authorities were the central road authority in each State but in 1949 this was extended to include the Commonwealth Government Department of Works. The present member authorities are: Department of Main Roads, New South Wales; Country Roads Board, Victoria; Main Roads Department, Queensland; Highways Department, South Australia; Main Roads Department, Western Australia; Department of Public Works, Tasmania; Commonwealth Government Department of Construction.

These authorities are directly responsible for the construction and maintenance of the primary road system which comprises approximately 14 per cent of roads in Australia. The primary roads, generally termed 'main roads', include the principal routes between States, routes linking large cities and regions within the States and certain major arterial roads. The authorities also have a limited responsibility for some secondary roads serving primary and secondary industry, and tourist roads.

The Association's objectives are to provide a central organisation where, by co-operative effort, a uniform approach to the improvement, planning and development of the Australian road system can be achieved. This is done by gathering together experienced engineers and administrators from the member Authorities into a series of committees to develop national standards for road and bridge design, construction and maintenance and to improve methods of administration and financial control. The policies and standards published are widely used by local government authorities and by universities as standard textbooks for courses in road engineering. For structural design, road signs, manufactured items and standard laboratory test procedures it has been a long standing policy of the Association to participate with the Standards Association of Australia in the preparation of national codes of practice.

One item of continuing interest to the Association is road research and in 1959 the Association decided to establish and finance a separate national road research centre. This centre, the Australian Road Research Board (A.R.R.B.), was established in 1960 as a company controlled by a Board consisting of the N.A.A.S.R.A. members. The director and staff of A.R.R.B. regularly report to the N.A.A.S.R.A. executive and technical committees the results and progress of research undertaken for N.A.A.S.R.A. and the individual road authorities.

The Association also assists the Commonwealth Government in a number of national and international projects. Within Australia direct grants are made for the construction of a number of roads and the Association has provided the basic data for the two Australian Roads Surveys. These surveys are conducted regularly in conjunction with the Commonwealth Bureau of Roads and form the basis for determining the Commonwealth Government's policy on financial aid for roads. The Association also regularly confers with the Commonwealth Government Department of Transport, the Commonwealth Bureau of Roads and Australian Transport Advisory Council on major roading policies. As part of the Commonwealth Government's external aid program and in conjunction with the Department of Foreign Affairs, member authorities of the Association conduct engineering training courses for experienced engineers from African and Asian countries.

The secretarial services of the Association are provided by a small staff located in Sydney. This office maintains contact with overseas road bodies and acts as a centre for the receipt and circulation of standards published by these organisations.

Australian Road Research Board

The Australian Road Research Board was established by the road authorities of the Commonwealth and State Governments in 1960 as a national centre for road research. The Board was incorporated in January 1965 as a public company limited by guarantee, memorandum and articles of association being drafted in general conformity with the constitution which had been accepted in 1960. The company members are the Commonwealth Government, the commissioners of the central road authorities in New South Wales, Queensland, South Australia, and Western Australia, the Department of Public Works, Tasmania, and the Country Roads Board, Victoria. The Secretary of the Commonwealth Government Department of Construction and the departmental heads of the other road authorities constitute the Board, which controls all policy and activities. Finance for all activities has been provided by the company members on an agreed basis.

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The objectives of A.R.R.B. include planning an adequate program of research and development, arranging for individual projects to be carried out directly and by co-operating organisations, and providing conferences and publications to bring these and other advances to everyone interested in roads. Publications include *Proceedings* of biennial national research conferences commencing in 1962, the journal *Australian Road Research* issued a number of times a year, and separate reports and bulletins resulting from special research projects.

The following list of possible subjects indicates the range of studies provided for in the original constitution: road planning, location, design, safety, materials, construction, maintenance, structures, equipment, traffic and transport, economics, administration, financing, management, accounting, and any other matters affecting the provision, upkeep, use, protection, and development of roads. In planning a creative program the Board continues to look for those subjects which seem to offer the highest benefit to road engineers and the community.

The work on research projects is carried out either directly by the Board's own staff, in many cases acting in co-operation with the road authorities of the various governments, or through co-operative projects established with universities. The Board has endeavoured to provide or sustain the additional staff required for these external projects, but university staff members furnish advice and co-operation in all parts of these studies.

As with most research organisations, the Board has made very full use of systematic consultation through various advisory groups. Members of these groups have been recruited from persons with the ability to contribute, who were prepared to serve as individuals and not as representatives of particular organisations. In an attempt to secure completely unfettered counsel, most of the members of the advisory groups were drawn from outside the Board and its staff. The various committees include a general Advisory Council and several particular types of specialist committees. In addition, the technical committees of the National Association of Australian State Road Authorities have, with the initiation of A.R.R.B., been a continuing and valuable source of advice and consultation. In this way, therefore, exceedingly valuable advice has been obtained from individuals drawn from the State road authorities, local authorities, C.S.I.R.O., Australian universities, several Commonwealth Government departments, and from private companies and consultants.

Commonwealth Bureau of Roads

The Commonwealth Bureau of Roads is a Statutory Authority established under the provisions of the Commonwealth Bureau of Roads Act 1964. The Bureau consists of a full-time Chairman and two part-time members appointed by the Governor-General and is served by a small secretariat. Broadly, the responsibilities of the Bureau are to advise the Commonwealth Government, through the Minister for Transport, on matters relating to roads and road transport and government financial assistance in this area.

An article dealing with the development of roads in Australia is given in Year Book No. 60, pages 385-93.

AIR TRANSPORT

Department of Transport (Air Transport Group)

Control of air transport in Australia is exercised by the Department of Transport. The Department's jurisdiction covers Australia and areas of the Indian and Pacific Oceans. Year Books Nos. 16, 19 and 38 trace the establishment of air transport control in Australia and the appropriate Acts of Parliament and Regulations under which this control is exercised. The present functions of the Department are shown in Year Book No. 51, pages 578-9, and further details about its operations are given in the annual reports to the Commonwealth Parliament by the Minister for Transport.

Regular air services within Australia

Interstate services. The majority of scheduled interstate services with passenger and all-freight aircraft are provided by two airlines only, the private enterprise airline Ansett Airlines of Australia (a division of Ansett Transport Industries (Operations) Pty. Ltd., which is a subsidiary of Ansett Transport Industries Ltd.) and the Commonwealth Government-owned Trans-Australia Airlines. All principal routes are competitive, with both airlines providing equal capacities in accordance with legislation passed by the Commonwealth Parliament. The two principal Acts which establish the legislative basis of this controlled competition are the Airlines Agreement Act 1952 and the Airlines Equipment Act 1958. The Airlines Equipment Act established the machinery for the achievement and maintenance of comparable, but not necessarily identical, aircraft fleets between T.A.A. and Ansett

Airlines of Australia, and is designed to prevent the provision of excess aircraft capacity. The Airlines Agreement Act established the basis of control of the two-airline competitive system and extended this machinery until at least 1982.

In addition to purely interstate services, both Ansett Airlines of Australia and Trans-Australia Airlines operate non-competitive intrastate routes in Australia. The Ansett Airlines of Australia non-competitive routes radiate mainly from Melbourne, while those of Trans-Australia Airlines are located within Queensland.

At 30 June 1975 the Ansett Airlines of Australia fleet included twelve Boeing 727s, twelve DC-9s, eleven Friendships, three L188(F)s and two helicopters. At the same date Trans-Australia Airlines operated a fleet of twelve Boeing 727s, twelve DC-9s, fifteen Friendships and five Twin Otter DHC-6.

Intrastate services. In addition to the intrastate services operated by Ansett Airlines of Australia and Trans-Australia Airlines there are a number of smaller regional airlines operating from Sydney (Ansett Airlines of New South Wales and East-West Airlines), Adelaide (Ansett Airlines of South Australia), Perth (MacRobertson Miller Airlines), and Alice Springs (Connair). With the exception of Connair, which provides regular service to outback homesteads and communities, all of these are concerned primarily with traffic moving to and from the respective capital city. With the exception of the independently owned East-West Airlines and Connair, all regional airlines are divisions of Ansett Transport Industries (Operations) Pty. Ltd. The larger aircraft used by these regional airlines are Fellowships, Friendships and Convairs. Connair uses DC3s, Herons and smaller aircraft types.

Commuter services. These are not airline services but regular flights by charter firms with small single and twin-engined aircraft operating to fixed and published timetables. They provide regular air links between many centres, towns and country areas which are either not served by the major airlines or have no direct air service with their capital or nearest major provincial city. The first commuter service approved was for Opal Air Pty Ltd, of Coober Pedy (S.A.), to operate between Adelaide and the South Australian opal fields. At 30 June 1975 twenty-nine charter operators were operating commuter services in Australia. Details of the operations of these commuter services are excluded from the statistics shown in this section.

Scheduled domestic airline services. Statistics of all regular airline services are set out in the following table.

| AIR | TRANSPORT: | OPERATIONS | OF | REGULAR | INTERNAL | SERVICES |
|-----|------------|------------|-----|---------|----------|----------|
| | | AUST | RAI | LIA(a) | | |

| | _ | | | | | | |
|----------------------|---|--------|-----------|-----------|-----------|-----------|-----------|
| | | | 1970–71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
| Hours flown . | | number | 258,793 | 248,774 | 256,435 | 281,611 | 282,706 |
| Kilometres flown . | | . '000 | 114,605 | 115,931 | 121,605 | 135,209 | 138,928 |
| Passengers— | | | | | | | |
| Embarkations . | | number | 6,340,036 | 6,629,316 | 7,502,892 | 8,857,654 | 9,393,104 |
| Passenger-kilometres | | . '000 | 4,974,220 | 5,276,524 | 5,842,540 | 7,001,336 | 7,578,752 |
| Freight- | | | | | | | |
| Tonnes uplifted | | tonnes | 91,401 | 89,883 | 94,425 | 112,654 | 107,813 |
| Tonne-kilometres | | . '000 | 78,047 | 76,475 | 84,039 | 101,334 | 100,942 |
| Mail— | | | | | | | |
| Tonnes uplifted | | tonnes | 9,916 | 10,137 | 10,114 | 9,916 | 9,613 |
| Tonne-kilometres | | . '000 | 9,329 | 9,589 | 10,100 | 9,569 | 9,312 |
| | | | | | | | |

⁽a) Includes flights of all Australian-owned airlines, with the exception of those of Qantas Airways Limited, between airports located within Australia.

Internal airline passenger embarkation and disembarkation

The statistics set out in the next table have been compiled by aggregating all internal airline passenger traffic loaded and unloaded at each airport. They include passengers on flights between Australia and Papua New Guinea and Australia and Norfolk Island. At ports where throughpassengers transfer between flights, such passengers are counted as embarking as well as disembarking passengers.

| INTERNAL | AIRWAYS | PASSENGER | EMBARKATIO | NS AND |
|------------|----------------|------------------|-------------------|----------|
| DISEMBARKA | TIONS AT | PRINCIPAL | AUSTRALIAN | AIRPORTS |

| Airport | | | 1970–71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|---------------|---|---|-----------|-----------|-----------|-----------|-----------|
| Sydney . | - | | 3,515,231 | 3,694,498 | 4,162,659 | 4,679,513 | 4,953,051 |
| Melbourne . | | | 2,750,602 | 2,861,896 | 3,226,294 | 3,876,877 | 4,037,585 |
| Brisbane . | | | 1,347,118 | 1,448,920 | 1,658,043 | 2,078,812 | 2,218,780 |
| Adelaide . | | | 1,019,320 | 1,046,840 | 1,154,384 | 1,374,645 | 1,494,675 |
| Canberra . | | | 596,171 | 670,608 | 813,712 | 934,069 | 981.815 |
| Perth | | | 510,328 | 545,890 | 536,057 | 646,699 | 696,527 |
| Hobart . | | | 222,397 | 227,016 | 282,676 | 382,636 | 375,769 |
| Townsville . | | | 197,942 | 202,160 | 231,665 | 315,782 | 320,153 |
| Coolangatta . | | | 166,239 | 188,917 | 243,994 | 278,044 | 300,854 |
| Launceston . | | | 197,500 | 208,090 | 244,982 | 294,694 | 287,741 |
| Cairns . | | | 158,986 | 182,300 | 204,414 | 251,847 | 266,620 |
| Darwin . | | | 118,375 | 131,703 | 141,696 | 182,319 | 241,003 |
| Mackay . | | | 125,220 | 133,806 | 159,408 | 196,951 | 213,972 |
| Rockhampton | | | 97,264 | 101,685 | 113,823 | 153,075 | 160,687 |
| Alice Springs | | | 57,299 | 65,497 | 89,018 | 126,572 | 151,566 |
| Devonport . | | | 71,426 | 75,388 | 84,290 | 105,447 | 104,150 |
| Wynyard . | | · | 65,563 | 70,597 | 75,532 | 88,074 | 93,209 |
| Mount Isa . | | | 67,938 | 69,760 | 68,741 | 79,297 | 81,147 |
| Tamworth . | | - | 50,870 | 59,557 | 67,479 | 74,650 | 80,409 |
| Wagga | | | 52,181 | 52,511 | 56,651 | 61,723 | 69,581 |
| Dubbo . | | | 55,574 | 50,827 | 56,566 | 58,939 | 64,925 |
| Kingscote . | | | 51,135 | 47,993 | 48,609 | 59,107 | 61,696 |

International activity

International organisations. A full report of the formation of the International Civil Aviation Organization, the Commonwealth Air Transport Council, and the South Pacific Air Transport Council appeared in Year Book No. 37, and particulars of subsequent activity in the international field were included in No. 38. The International Civil Aviation Organization had a membership of 129 nations in June 1975. Australia has continued its position as a member of the Council, which it has held since I.C.A.O. was established in 1947. Further details will be found in Year Book No. 40 and earlier issues.

International agreements. Australia had air service agreements in force with twenty-four countries at 30 June 1975. They were Austria, Britain, Canada, Sri Lanka, Egypt, Fiji, France, Federal Republic of Germany, Greece, India, Indonesia, Ireland, Italy, Japan, Lebanon, Malaysia, Nauru, Netherlands, New Zealand, Philippines, Singapore, Republic of South Africa, Thailand, and the United States of America. Under these agreements Australia is granted rights to operate services between Australia to and through the countries in question; these rights are exercised by Australia's international airline Qantas. In return, the designated airlines of the other countries which are partners to these agreements are granted traffic rights in Australia. Australia also had air service arrangements granting traffic rights with eight other countries at 30 June 1975. These were Bahamas, Bahrain, Iran, Mauritius, Mexico, Portugal, Syria and Turkey.

International air services. At 30 June 1975, twenty-three overseas international airlines were operating regular scheduled services to Australia. These are: Air-India (India), Air Nauru (Nauru), Air New Zealand (New Zealand), Air Niugini (New Guinea), Air Pacific (Fiji), Alitalia (Italy) British Airways Overseas Division (Britain), Canadian Pacific Air Lines (Canada), Cathay Pacific (Hong Kong), Deutsche Lufthansa (Federal Republic of Germany), Garuda (Indonesia), Japan Air Lines (Japan), J.A.L. (Yugoslavia), K.L.M. Royal Dutch Airlines (Netherlands), Singapore International Airlines (Singapore), Merpati Nusantara Airlines (Indonesia), Olympic Airways (Greece), Pan American World Airways (United States of America), Philippines Air Lines (Philippines), South African Airways (Republic of South Africa), Thai International (Thailand) and Union de Transport Aeriens (France). Qantas, Australia's international airline, operates a fleet of twenty-seven aircraft of which fourteen are Boeing 707-338C jet aircraft and ten are Boeing 747B jet aircraft. All the shares in Qantas Airways Limited are owned by the Commonwealth Government.

International operations. The table following shows particulars of international airline traffic during 1974-75 moving into and out of an area which embraces Australia, Papua New Guinea, and Norfolk Island. These figures do not include traffic between Australia and Papua New Guinea and Norfolk Island.

AIR TRANSPORT: INTERNATIONAL AIRLINE TRAFFIC TO AND FROM AUSTRALIA(a), 1974-75

| Type of traffic | Aircraft movements | Passengers | Freight | Maii |
|-------------------------|-----------------------|------------|---------|--------|
| Traffic to Australia— | | | tonnes | tonnes |
| Oantas Airways Limited | 5,469 | 561,959 | 13,032 | 663 |
| Other airlines | 8,125 | 658,901 | 28,174 | 3,795 |
| All airlines | 13,594 | 1,220,860 | 41,206 | 4,458 |
| Traffic from Australia- | | | | |
| Qantas Airways Limited | 5,510 | 533,577 | 10,120 | 1.833 |
| Other airlines | 7,909 | 637,665 | 14,432 | 698 |
| All airlines | 13,419 | 1,171,242 | 24,552 | 2,531 |

⁽a) Australian mainland, and Papua New Guinea and Norfolk Island.

Statistics covering the operations of Australia's regular overseas services are shown in the following table. These operations include all stages of Qantas flights linking Australia with external territories and overseas countries, and stages external to Australia for flights of other Australian-owned airlines; they exclude flights over stages located within Papua New Guinea.

AIR TRANSPORT: OPERATIONS OF AUSTRALIA'S REGULAR OVERSEAS SERVICES

| | | | 1970–71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|---|---|------------------|----------------------|----------------------|------------------------|------------------------|------------------------|
| Hours flown | | number | 97,307 | 91,357 | 87,548 | 90,293 | 86,231 |
| Kilometres flown . | | . '000 | 70,346 | 66,270 | 64,823 | 69,062 | 65,045 |
| Passengers— Embarkations Passenger-kilometres | | number . '000 | 839,629 4,446,906 | 885,548 4,892,044 | 1,054,929 6,775,195 | 1,295,457 8,653,357 | 1,418,541 9,434,345 |
| Freight- | | | | | | | |
| Tonnes uplifted . Tonne-kilometres | : | tonnes . '000 | 21,455 155,143 | 20,961 143,514 | 23,239 150,342 | 27,328 195,078 | 29,974 213,748 |
| Mail— | | | | | | | |
| Tonnes uplifted . Tonne-kilometres | | tonnes . '000 | 2,819 22,862 | 2,841 24,627 | 2,791 22,891 | 2,912 25,071 | 2,950 24,043 |

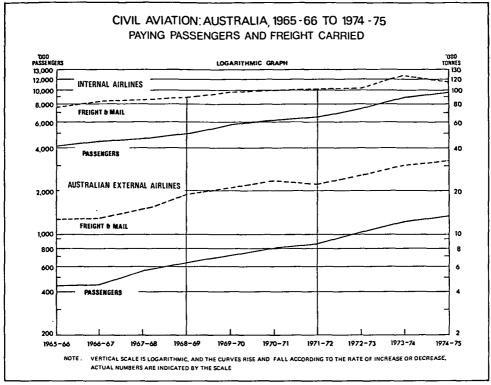


PLATE 38

General aviation

General aviation activity, which covers all non-airline operations such as charter, aerial work and private flying, has grown rapidly throughout Australia in recent years and is an important sector of the Australian aviation industry. In 1974-75 the general aviation hours flown, chiefly with light aircraft totalled 1,100,000 compared with 300,000 hours flown by Australian airline aircraft. At 30 June 1975 aircraft employed in general aviation numbered 4,115.

Aerodromes

The number of aerodromes throughout Australia and its External Territories at 30 June 1975 was 473. Ninety-three were owned by the Commonwealth Government and 380 by local authorities and private interests. Capital expenditure on aerodrome and building construction was \$13.6 million in 1974-75. Maintenance expenditure on Commonwealth Government-owned aerodromes during 1974-75 was \$4.4 million, and development and maintenance grants to licensed aerodromes participating in the Local Ownership Plan totalled \$1,289,000.

Airways facilities

A total of 404 navigational aids were in service at 30 June 1975. The total includes 224 nondirectional beacons (NDB), 101 distance measuring equipment (DME), 8 international distance measuring equipment (DMEI), 13 visual-aural ranges (VAR), 41 VHF omni-directional ranges (VOR), 16 instrument landing systems (ILS) and one twin locator approach system.

One hundred and thirty-five aerodromes are now equipped with night landing facilities. Seventynine Australian designed 'T' systems (T-VASIS), are operating. Seven long range surveillance radars and two short-range (TAR) are also in operation. There are thirty-one fully equipped Air Traffic Control Centres and sixty flight service units.

Air transport registrations, licences, etc., in force in Australia

At 30 June 1975 there were 4,269 aircraft registered in Australia. There were also, at 30 June 1975, 34,046 pilots' licences in force of which 15,312 were private pilots' licences, 3,470 commercial pilots' licences, and 12,542 student pilots' licences. Flight radio-telephone operators' licences numbered 22,984.

Accidents and casualties

AIR TRANSPORT: ACCIDENTS INVOLVING CASUALTIES(a) AUSTRALIA(b)

| | 197071 | 1971–72 | 1972-73 | 1973–74 | 1974–75 |
|---------------------------|------------|---------|---------|---------|---------|
| Number | . 31 | 28 | 30 | 34 | 24 |
| Persons killed | . 48 | 37 | 41 | 46 | 25 |
| Persons seriously injured | . 24 | 23 | 8 | 19 | 16 |

⁽a) Accidents involving civil aircraft which resulted in death or serious injury. Excludes parachulists killed on contact with earth after an uninterrupted fall. (b) Excludes accidents outside Australia involving aircraft on the Australian register.

POSTS: INTERNAL AND OVERSEAS TELECOMMUNICATION SERVICES RADIOCOMMUNICATION STATIONS

In this division particulars for the Australian Capital Territory are included with those for New South Wales, and the South Australian figures include particulars for the Northern Territory, unless otherwise indicated. The Central Office of the Postal and Telecommunications Department is located in Melbourne, Victoria.

Postmaster-General's Department-General

Early in 1975, legislation was passed to establish two statutory authorities—the Australian Telecommunications Commission and the Australian Postal Commission—which took over the postal and telecommunications responsibility of the Postmaster-General's Department from 1 July 1975. The residual functions of the former department will remain with the new Postal and Telecommunications Department. This mainly involves the administration of the Wireless Telegraphy Act which concerns the licensing and management of the radio frequency spectrum. The new Department also took over, from the former Department of the Media, the responsibility for policy matters concerned with broadcasting.

The principal functions of the Department are reflected in the *Post and Telegraph Act* 1901. Since its establishment the Department assumed other responsibilities some of which are currently reflected in the *Wireless Telegraphy Act* 1905 and the *Broadcasting and Television Act* 1942.

The basic role of the Department was to provide within Australia a network of facilities which enable people and organisations:

to send letters, printed matter, parcels and money in Australia and overseas and to receive such items within Australia from overseas.

to converse by telephone in Australia and overseas.

to send and receive written messages, data, pictures and other visual matter by electrical means within Australia and to and from overseas.

to relay on the telecommunications network, radio and television broadcasts emanating within Australia and those on relay to and from overseas.

In addition the Department has the following responsibilities:

to plan and manage the radio frequency spectrum and regulate radio communications service;

to construct, maintain and operate the transmitters of the National Broadcasting and Television Service and the Radio Australia Service (see pages 416-18); and

to provide agency services for Australian and State Government Departments and other instrumentalities

Postal facilities

The following table shows the number of post offices, the area in square kilometres and the number of inhabitants to each post office (including non-official offices), and the number of inhabitants to each 100 square kilometres in each State and in Australia at 30 June 1975.

POSTAL FACILITIES: RELATION TO AREA AND POPULATION, 30 JUNE 1975

| | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|--------------------------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
| Post offices— | | | | | | | | | |
| Official | | | 510 | 331 | 215 | 171 | 161 | 46 | 1,434 |
| Non-official | | | 1,455 | 1,174 | 790 | 590 | 391 | 234 | 4,634 |
| Total post offices | | | 1,965 | 1,505 | 1,005 | 761 | 552 | 280 | 6,068 |
| Square kilometres of ter | ritory | per | | | | | | | |
| office | | ٠. | 409 | 151 | 1,719 | 3,062 | 4,575 | 242 | 1,266 |
| Inhabitants per office | | | 2,535 | 2,441 | 1,987 | 1,737 | 2,034 | 1,450 | 2,225 |
| Inhabitants per 100 squ | are l | cilo- | | | | | | | |
| metres | | | 620 | 1,614 | 116 | 57 | 44 | 599 | 176 |

Employment

PERSONS PROVIDING POST OFFICE SERVICES: CENTRAL OFFICE AND STATES 30 JUNE 1975

| | Central Office | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|--|-------------------|-----------------------------|--------------------------|-------------------------|-------------------------|------------------------|----------------|--------------------------------|
| Official full-time staff(a)— Permanent officers . Temporary and exempt employees . | 3,530 167 | 30,296 13,994 | 22,540 8,414 | 13,931 3,946 | 9,847 1,857 | 8,176 1,851 | 2,877 545 | 91,197 30,774 |
| Total | 3,697 | 44,290 | 30,954 | 17,877 | 11,704 | 10,027 | 3,422 | 121,971 |
| Other(b)— Non-official postmasters and postmistresses Other staff at non-official offices Telephone office-keepers Mail contractors (including persons employed to drive vehicles) | :: | 1,455 561 77 1,607 | 1,174 460 9 878 | 790 337 14 801 | 590 190 45 285 | 391 74 54 300 | 234 24 1 | 4,634 1,646 200 4,033 |
| Total | | 3,700 | 2,521 | 1,942 | 1,110 | 819 | 421 | 10,513 |
| Grand total | 3,697 | 47,990 | 33,475 | 19,819 | 12,814 | 10,846 | 3,843 | 132,484 |

⁽a) Persons directly under the control of the Department. Excludes 3,893 part-time staff. (b) Persons not directly under the control of the Department. Includes persons employed either full-time or part-time under contract or in return for payments appropriate to work performed.

Financial operations-Postmaster-General's Department

The financial tables which follow allow for the changed accounting arrangements introduced by the Postmaster-General's Department following amendment of the Post and Telegraph Act in 1968.

Earnings

The following table shows the earnings of the Postmaster-General's Department as taken from successive Profit and Loss Statements.

POSTMASTER-GENERAL'S DEPARTMENT: EARNINGS, BY SOURCE AUSTRALIA (\$'000)

| | Postal se | rvice | | | Telecomi | | | | | |
|---------|-----------|--|--|-------------------|----------------------|--------------------|-----------|---------------------------------|--------------------------|-----------|
| Year | Postages | Money order and postal order fees | Com- mission on agency services | Other earnings | Telephone rentals | Telephone calls | Telegrams | Leased telegraph services | Other earnings (a) | Total |
| 1965-66 | 107,402 | 2,771 | 4,277 | 2,296 | 93,856 | 154,304 | 11.639 | 6,144 | 18,585 | 401,274 |
| 1966-67 | 110,317 | 2,919 | 4,300 | 2,452 | 100,823 | 171,100 | 11.868 | 7,018 | 20,691 | 431,488 |
| 1967-68 | 127,748 | 3,178 | 4,406 | 2,847 | 108,293 | 211,812 | 14,172 | 7,478 | 22,722 | 502,656 |
| 1968-69 | 142,770 | 3,400 | 5,591 | 3,175 | 116,974 | 245,571 | 14,711 | 8,145 | 26,872 | 567,208 |
| 1969-70 | 149,036 | 3,505 | 5,698 | 3,628 | 126,669 | 280,757 | 15,120 | 9,253 | 31,579 | 625,244 |
| 1970-71 | 171,548 | 4,246 | 6.348 | 3,457 | 153,658 | 312,111 | 17,369 | 10,880 | 35,996 | 715,613 |
| 1971-72 | 196,361 | 4,618 | 7,857 | 4,528 | 184,975 | 387,538 | 17,284 | 12,965 | 42,367 | 858,493 |
| 1972-73 | 207,277 | 4,778 | 10,055 | 4.386 | 192,244 | 435,404 | 18,185 | 13,759 | 50,973 | 937,061 |
| 1973-74 | 224,246 | 4,944 | 11.863 | 3,943 | 235,816 | 517.375 | 19,499 | 15,155 | 65.590 | 1.098,431 |
| 1974-75 | 274,073 | 5,653 | 13,207 | 9,055 | 301,466 | 637,804 | 25,775 | 16,912 | 86,668 | 1,370,612 |

⁽a) Includes fees for advertisements in telephone directories, proceeds of sales of fixed assets, telephone service connection fees and telex call fees.

Expenses

This table shows the operating and maintenance expenses of the Postmaster-General's Department as taken from successive Profit and Loss Statements.

POSTMASTER-GENERAL'S DEPARTMENT: EXPENSES, BY SOURCE AUSTRALIA (\$'000)

| | 1 | Postal service | | | Telecommu | nications ser | vice | |
|---------|-------|--|---------------------|--|-----------------------------|------------------------------|---------|-----------|
| Year | n | Operating naintenance and general | Carriage of mail | Depreciation, super- annuation, long service leave and interest | Operating and general | Main- tenance of plant | Total | |
| 1965–66 | | 84,868 | 31,143 | 11,077 | 74.451 | 66,489 | 133,370 | 401,398 |
| 1966-67 | · | 95,775 | 32,395 | 15,398 | 83,154 | 74,063 | 152,205 | 452,991 |
| 1967-68 | | 107,016 | 33,114 | 18,209 | 92.614 | 83,645 | 177,707 | 512,305 |
| 1968-69 | | 106,682 | 35,678 | 21,277 | 101,861 | 95,022 | 198,651 | 559,171 |
| 1969–70 | | 123,615 | 34,911 | 23,208 | 116,920 | 105,711 | 218,897 | 623,262 |
| 1970–71 | | 144,352 | 37,722 | 29,014 | 135,321 | 121,731 | 249,116 | 717,256 |
| 1971-72 | | 155,306 | 34,880 | 34,431 | 154,587 | 138,123 | 281,366 | 798,694 |
| 1972-73 | | 173,265 | 35,404 | 38,719 | 176,607 | 160,182 | 311,662 | 895,838 |
| 1973-74 | | 203,185 | 36,638 | 59,691 | 217,784 | 203,635 | 372,825 | 1,093,757 |
| 1974-75 | | 262,006 | 42,214 | 62,364 | 282,744 | 250,187 | 440,567 | 1,340,083 |

Profit or loss

The following table shows the net results of the Department's operations for the year 1974-75 together with summarised particulars for the year 1973-74.

POSTMASTER-GENERAL'S DEPARTMENT CONSOLIDATED STATEMENT OF PROFIT AND LOSS, AUSTRALIA 1973-74 AND 1974-75 (\$'000)

| | | | | | 19 | 773-74 | 197475 | | |
|--|-------|--------|--------|---|----|--|--|--|--|
| | | | ,244 | _ | A | II services | Postal service | Telecommuni- cations service | All services |
| Earnings | | | | | | 1,098,431 | 301,988 | 1,068,624 | 1,370,612 |
| Expenses— Operating, maintena Depreciation Superannuation Long service leave Total expenses | nce a | and ge | eneral | | | 661,242 171,514 78,711 20,266 | 304,221 7,216 32,392 8,871 352,700 | 532,930 185,656 63,890 17,326 | 837,151 192,872 96,282 26,197 |
| Profit or loss before in | teres | t . | | | | 166,698 | -50,712 | 268,822 | 218,110 |
| Interest | | | | | | 162,024 | 13,885 | 173,696 | 187,581 |
| Profit or loss after inter | rest | | | | | 4,674 | - 64,597 | 95,126 | 30,529 |

Minus sign (-) denotes loss.

Fixed assets, Postmaster-General's Department

POSTMASTER-GENERAL'S DEPARTMENT: TRANSACTIONS AFFECTING FIXED ASSETS 1974-75 (\$'000)

| Class of plant | | | | Value at 1 July 1974 | Additions during year | Instalments of plant written out | Value at 30 June 1975 |
|---------------------------|---|---|---|-------------------------|--------------------------|--|--------------------------|
| Telecommunications plant | | | | 3,802,108 | 576,669 | 42,813 | (a)4,335,964 |
| Postal plant | • | • | • | 30,153 | 4,007 | 665 | (b)33,365 |
| Engineers' moveable plant | ٠ | • | • | 59,769 | 12,037 | 4,968 | 66,838 |
| Motor vehicles | | | • | 43,842 | 12,604 | 8,357 | 48,089 |
| Other plant and equipment | | | | 62,048 | 9,561 | 2,145 | 69,464 |
| Buildings | | | | 466,579 | 72,742 | 1,015 | (c)538,306 |
| Land | | | | 66,570 | 10,508 | 131 | 76,947 |
| Total | | | | 4,531,068 | 698,127 | 60,094 | (b)5,168,973 |

⁽a) Includes plant under construction valued at \$212,955,651. (b) Excludes \$128,561 adjustment for changed service lives. (c) Includes buildings under construction valued at \$58,343,722.

Postal services

Mail delivery network

MAIL DELIVERY NETWORK(a): 31 MARCH 1975

| | | | Number of i | nail delivery poi | ints | | |
|-------------------|--|---|-----------------------|----------------------|------------------|-----------------------------|----------------------|
| State | | | Postmen's delivery | Roadside delivery | Private boxes | Private and free bags | Poste restante(b) |
| New South Wales | | | 1,493,267 | 71,472 | 129,694 | 5,058 | 49,469 |
| Victoria | | | 1,084,126 | 49,674 | 80,369 | 3,881 | 36,184 |
| Queensland . | | | 481,349 | 51,048 | 71,116 | 6,615 | 24,496 |
| South Australia | | | 354,515 | 2,821 | 45,773 | 4,227 | 19,025 |
| Western Australia | | | 302,743 | 8,456 | 37,611 | 795 | 18,058 |
| Tasmania . | | | 94,137 | 6,895 | 14,272 | 1,229 | 11,666 |
| Australia | | • | 3,810,137 | 190,366 | 378,835 | 21,805 | 158,898 |

⁽a) Statistics shown here are from the Mail Delivery Network Survey at 31 March 1975. (b) Delivery of mail at post offices.

Postal articles handled

The following two tables show the number of postal articles handled by the Australian Post Office, according to their State of origin. Each article is counted once only irrespective of the number of times it may be handled in transit.

POSTAL ARTICLES HANDLED(a): 1974-75 ('000)

| | Letters (b) | News- papers and packets (c) | Parcels (d) | Regis- tered articles (e) | Letters | News- papers and packets (c) | Parcels (d) | Regis- tered articles (e) |
|-------------------|----------------|--|----------------|------------------------------------|-----------|--|----------------|------------------------------------|
| State | Posted f | or delivery | within Aus | Posted for delivery overseas | | | | |
| New South Wales | 756,976 | 127,427 | 9,645 | 2,409 | 43,784 | 8,826 | 368 | 1,162 |
| Victoria | 596,148 | 102,911 | 5,574 | 1,557 | 29,227 | 3,480 | 391 | 662 |
| Queensland . | 287,025 | 36,678 | 2,450 | 1,033 | 9,746 | 771 | 98 | 88 |
| South Australia | 186,909 | 25,967 | 1,642 | 589 | 4,453 | 316 | 82 | 89 |
| Western Australia | 145,862 | 19,318 | 1,055 | 480 | 7,959 | 957 | 75 | 110 |
| Tasmania | 52,172 | 6,756 | 244 | 188 | 313 | 31 | 7 | 3 |
| Australia | 2,025,091 | 319,051 | 20,609 | 6,256 | 95,482 | 14,381 | 1,020 | 2,113 |
| | Received | d from over | seas | | Total po | stal matter | dealt with | |
| New South Wales | 80,599 | 19,005 | 967 | 1,754 | 881,358 | 155,258 | 10,980 | 5,325 |
| Victoria | 50,196 | 11,547 | 752 | 845 | 675,571 | 117,938 | 6,716 | 3,064 |
| Queensland . | 9,321 | 2,929 | 197 | 62 | 306,093 | 40,379 | 2,745 | 1,183 |
| South Australia | 6,569 | 2,288 | 110 | 36 | 197,931 | 28,571 | 1,834 | 714 |
| Western Australia | 6,166 | 4,184 | 176 | 97 | 159,986 | 24,459 | 1,307 | 687 |
| Tasmania | 107 | 265 | 57 | 2 | 52,592 | 7,052 | 308 | 193 |
| Australia | 152,957 | 40,219 | 2,260 | 2,797 | 2,273,531 | 373,657 | 23,889 | 11,165 |

⁽a) Number of distinct articles handled. (b) Includes letters, cards and other postal articles enclosed in envelopes and sorted with letters. (c) Includes newspapers and postal articles not included in letter mail. (d) Includes registered, cash on delivery and duty parcels. (e) Includes registered articles other than parcels.

POSTAL ARTICLES HANDLED(a): AUSTRALIA ('000)

| Year | Letters(b) | Newspapers and packets(c) | Parcels(d) | Registered articles(e) | Total postal articles handled |
|----------|----------------|---------------------------------|------------|---------------------------|--|
| 197071 . | . (f)2,436,846 | (f)330,858 | 24,950 | 13,234 | 2,805,887 |
| 1971-72. | . 2,429,041 | 300,981 | 24,574 | 12,166 | 2,766,762 |
| 1972~73. | . 2,474,996 | 315,774 | 25,445 | 11,372 | 2,827,587 |
| 1973-74. | . (g)2,459,155 | (g)321,814 | 25,336 | 11,722 | 2,818,026 |
| 1974-75. | . 2,273,531 | 373,657 | 23,889 | 11,165 | 2,682,242 |

⁽a) Number of distinct articles handled. (b) Includes letters, cards and other postal articles enclosed in envelopes and sorted with letters. (c) Includes newspapers and postal articles not included in letter mail. (d) Includes registered, cash on delivery and duty parcels. (e) Includes registered articles other than parcels. (f) Comparable only with previous year. (g) Not comparable with previous years.

During 1974-75 the cost of the carriage of mails, as disclosed by the Profit and Loss Statement of the Postal Service, was as follows: road, \$23,276,872; railway, \$3,710,173; sea, \$1,281,731; air—internal, \$3,005,869; overseas, \$10,939,833; total, \$42,214,478.

| MONEY | ORDERS | AND | POSTAL | ORDERS: | TRANSACTIONS. | AUSTRALIA |
|-------|--------|-----|--------|---------|---------------|-----------|
| | | | | | | |

| | | | | oney orders | s(a) | | Postal orders | | | |
|---------|--|----|------|-------------|---------|------------------------|---------------|--------|--------|--|
| | | Is | sued | | Total | Issued | | | | |
| Year | | | | Number | Value | commission received | Number | Value | Fee | |
| | | | | '000 | \$'000 | \$'000 | '000 | \$'000 | \$,000 | |
| 1970-71 | | | | 7,353 | 161,119 | 3,031 | (b)16,732 | 44,961 | 1,193 | |
| 1971-72 | | | | 5,677 | 143,167 | 2,808 | 17,289 | 55,784 | 1,779 | |
| 1972-73 | | | | 5,151 | 144,896 | 2,807 | 16,787 | 57,475 | 1,903 | |
| 1973-74 | | | | 4,774 | 154,442 | 2,948 | 15,822 | 60,887 | 2,000 | |
| 1974-75 | | | | 4,521 | 182,668 | 3,308 | 14,547 | 60,566 | 2,353 | |

(a) Money orders issued for payment in Australia and overseas. (b) Postal orders for \$9 and \$10 were introduced in October 1970.

Of the total money orders issued in Australia during 1974-75, 4,160,686 valued at \$177,022,610 were payable in Australia, and 360,750 valued at \$5,645,455 were payable overseas. Of the total money orders paid in Australia during 1974-75, 4,315,557 (\$175,690,854) were issued in Australia, and 153,480 (\$4,197,950) were issued overseas.

Of the total postal orders paid in Australia during 1974-75 (14,546,590 valued at \$60,566,045), 11,106,681 (\$47,791,232) were paid in the State in which issued, and 3,493,317 (\$12,484,618) were paid in States other than those in which issued.

Internal telecommunication services

A orief history of the development of telecommunications in Australia is shown on pages 378-82 of Official Year Book No. 59. Common internal telecommunication operations now comprise telephone, telegram and telex services.

Wire and pole routes

At 30 June 1975 there were 26,099,754 pair kilometres of cable and 733,825 pair kilometres of aerial wire used for telecommunication purposes in Australia. The aerial wires are mounted on 152,903 kilometres of pole routes.

Coaxial cable and broadband relay systems

In recent years trunk telephone, telegraph and television channels have been increasingly provided by coaxial cable and radio relay systems. Broadband radio relay systems and coaxial cables are an alternative means of providing transmission facilities, each radio bearer being similar in carrying capacity to a coaxial tube. At 30 June 1975 there were 31,774 tube kilometres of coaxial cable and 114,145 bearer kilometres of radio relays in operation.

Telephone services in operation

Increasing use of the telephone by the community has resulted in a demand for additional telephone services. The volume of internal telephone traffic has consistently expanded, trunk line calls having the fastest rate of growth.

The following table shows the number of services in operation in each State at 30 June 1975 classified according to type of service, type of exchange to which connected, and location. Telephone services connected to exchanges within 24.1 km of the Sydney and Melbourne General Post Offices, and 16.1 km of the Brisbane, Adelaide, Perth and Hobart General Post Offices are defined as being within a metropolitan area. Telephone services connected to exchanges located between 24.1 km and 40.2 km of the Sydney and Melbourne General Post Offices and between 16.1 km and 32.2 km of Brisbane, Adelaide, Perth and Hobart General Post Offices are defined as being within an outer metropolitan area.

Definitions of terms used in the following table

Ordinary exchange services are services which provide direct access to the exchange system by means of exclusive use of an exchange line.

Duplex services provide for two subscribers sharing a single exchange line, and preserve individual calling, separate metering and secrecy conditions. Duplex services are counted as two services. Party line services are other shared services involving any number of subscribers, and are counted as one service for one exchange line.

Private branch exchange services are services which provide for any number of extension lines to operate through a switchboard (either automatic or manual) into the exchange system. The relevant figure is the number of exchange lines (as distinct from extension lines). A service with six exchange lines and fifty extension lines is shown as six services.

Public telephones are telephones installed in public thoroughfares and other approved places for the use of the public generally (leased company coin telephones and 'red phones' are not included).

TELEPHONE SERVICES IN OPERATION: 30 JUNE 1975

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|-------------------------|-----------|-----------|---------|---------|---------|--------|-----------|
| Type of service— | | | | | | | |
| Ordinary exchange ser- | | | | | | | |
| vices | 1,205,025 | 956,470 | 399,529 | 270,036 | 226,550 | 87,371 | 3,144,981 |
| Duplex services | 4 | | 2 | 2 | 2 | . 2 | 12 |
| Party line services . | 2,925 | 702 | 2,427 | 870 | 725 | 47 | 7,696 |
| Private branch exchange | | | , | | | | , |
| services | 141.930 | 96,993 | 37,920 | 37.818 | 32,510 | 6,366 | 353,537 |
| Public telephones . | 12,933 | 7,800 | 5,193 | 3,078 | 2,683 | 1,107 | 32,794 |
| Connected to- | / | , , | -, | ., | _, | -, | , |
| Automatic exchanges . | 1,311,804 | 1,033,757 | 404,925 | 294,968 | 254,067 | 93,394 | 3,392,915 |
| Manual exchanges . | 51,013 | 28,208 | 40,146 | 16,836 | 8,403 | 1,499 | 146,105 |
| Located in— | , | , | , | , | -, | -,, | , |
| Metropolitan areas . | 876,912 | 785.845 | 242,887 | 229,139 | 198,127 | 42,066 | 2,374,976 |
| Country areas . | 485,905 | 276,120 | 202,184 | 82,665 | 64,343 | 52,827 | 1,164,044 |
| Total | 1,362,817 | 1,061,965 | 445,071 | 311,804 | 262,470 | 94,893 | 3,539,020 |

TELEPHONE SERVICES IN OPERATION: AUSTRALIA

| | | | 30 June— | | | | |
|------------------|--------|-----|-----------|-----------|-----------|-----------|-----------|
| Services connect | ed to- | - | 1971 | 1972 | 1973 | 1974 | 1975 |
| Metropolitan ex | chang | es— | | | | | |
| Automatic | | | 1,754,872 | 1,822,722 | 1,903,589 | 2,014,817 | 2,109,006 |
| Country exchan | ges | | | | | | |
| Automatic | ٠. | | 859,202 | 949,227 | 1,060,328 | 1,179,800 | 1,283,597 |
| Manual . | | | 242,936 | 205,818 | 183,153 | 166,409 | 146,417 |
| All exchanges- | | | , | • | • | • | • |
| Automatic | | | 2,614,074 | 2,771,949 | 2,963,917 | 3,194,617 | 3,392,603 |
| Manual . | | | 242,936 | 205,818 | 183,153 | 166,409 | 146,417 |
| Total ser | vices | | 2,857,010 | 2,977,767 | 3,147,070 | 3,361,026 | 3,539,020 |

Telephone instruments

TELEPHONE INSTRUMENTS IN SERVICE ('000)

| 30 June– ——— | _ | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|-----------------|--------|--------|-----|--------|-------|------|------|------|------|-------|
| 1971 . | | | | 1,683 | 1,240 | 475 | 360 | 285 | 109 | 4,152 |
| 1972 . | | | | 1,814 | 1,294 | 498 | 377 | 304 | 113 | 4,400 |
| 1973 . | | | | 1,913 | 1,370 | 532 | 399 | 326 | 118 | 4,659 |
| 1974 . | | | | 2,055 | 1,485 | 553 | 429 | 352 | 126 | 5,000 |
| 1975 . | | | | 2,150 | 1,544 | 616 | 447 | 377 | 133 | 5,267 |
| Number | at 30. | June 1 | 975 | , | • | | | | | • |
| per 10 | 0 pop | ulatio | n. | 43.2 | 42.0 | 30.8 | 33.5 | 33.5 | 32.7 | 39.0 |

Internal telephone traffic

LOCAL AND TRUNK LINE TELEPHONE CALLS: AUSTRALIA

| | | Effective po | aid local calls | Trunk line calls | | | |
|---------|------|--------------|-----------------------|------------------|-----------------------|-------------|--|
| Year | | Total | Per service number | Total '000 | Per service number | Total colls | |
| 1970-71 | | 2,848,000 | 1,024 | 225,300 | 81 | 3,073,300 | |
| 1971~72 | | 2,996,000 | 1,024 | 248,700 | 85 | 3,244,700 | |
| 1972-73 | | 3,146,000 | 1,027 | 276,300 | 90 | 3,422,300 | |
| 1973-74 | | 3,357,000 | 1,032 | 312,200 | 96 | 3,669,200 | |
| 1974-75 | | 3,560,000 | 1,032 | 345,000 | 100 | 3,905,000 | |

Subscriber trunk dialling (S.T.D.) facilities were introduced during the year 1961-62 from Canberra to the Sydney network and from Warragul (Victoria) to Melbourne. At the end of June 1975 subscriber trunk dialling was in operation at 2,933 exchanges, connected to approximately 3,272,231 services.

Internal telegram traffic

Telegrams can be lodged at any post office, telephone office or from any public telephone equipped for multi-coin operation. In addition, telegrams can be despatched from any subscriber's telephone or telex service. The number of telegrams of various types transmitted within Australia is set out below.

INTERNAL TELEGRAM TRAFFIC: AUSTRALIA ('000)

| Year | | Ordinary (a) | | | Letter- grams | Meteoro- logical service | Service | Total telegrams |
|---------|------|-----------------|-----|----|------------------|--------------------------------|---------|--------------------|
| 1970-71 | | 16,265 | 436 | 63 | 23 | 1,099 | 765 | 18.651 |
| 1971-72 | | 15,401 | 397 | 51 | 20 | 1,085 | 781 | 17,735 |
| 1972-73 | | 15,588 | 489 | 43 | 13 | 1,126 | 780 | 18,037 |
| 1973-74 | | 15,664 | 467 | 14 | 18 | 1,004 | 834 | 18,002 |
| 1974-75 | | 13,775 | 355 | | 23 | 1,065 | 875 | 16,093 |

⁽a) Includes radiograms.

Telex network

Particulars of the operations of the telex network, which are additional to the telegraph traffic shown above, are as follows:

TELEX NETWORK SERVICES AND INTERNAL CALLS, AUSTRALIA

| Year | 70–71 | | Services at end of year | Internal calls during year | |
|---------|-------|--|-------------------------|----------------------------|------------|
| 1970-71 | | | | 7.988 | 14,246,157 |
| 1971-72 | | | | 9,235 | 15,868,800 |
| 1972-73 | | | | 10,774 | 17,992,780 |
| 1973-74 | | | | 12,857 | 21,489,560 |
| 1974-75 | | | | 14,766 | 24,994,052 |

Development of telecommunications in Australia

An article dealing with the development of telecommunications in Australia appeared in Year Book No. 59, pages 378-84.

Overseas telecommunication services

The Overseas Telecommunications Commission (Australia) is the authority responsible for the establishment, maintenance and operation of telecommunication services between Australia and other countries, with ships at sea and to and between Australia's external Territories.

The Commission was established under the Overseas Telecommunications Act 1946. This Act implemented, in Australia, a recommendation of the 1945 Commonwealth Telecommunications Conference for national ownership of the external telecommunications services of the British Commonwealth countries concerned. (Details of overseas communication systems operating in Australia prior to 1946 and developments leading to the establishment of the Commission were published in Year Book No. 37, pages 220-4.)

With most other Commonwealth countries, the Commission is a member of the Commonwealth Telecommunications Organisation, the purpose of which is to promote the efficient exploitation and development of the Commonwealth external telecommunications system; it is a three-tier structure comprising the Commonwealth Conference on Telecommunications, the Commonwealth Telecommunications Council and the Commonwealth Telecommunications Bureau. The Commonwealth Telecommunications Council is the continuing management body of the Organisation with the role of promoting the purpose of the Organisation and carrying out the policies agreed by Governments. The Commonwealth Telecommunications Bureau is the Secretariat for the Organisation and functions under the control and direction of the Council.

The 1972 Commonwealth Telecommunications Conference reviewed the working of the Commonwealth Telecommunications Organisation in the light of experience and recommended new collaborative financial arrangements governing the use of the Commonwealth telecommunications systems. With the adoption of the recommendations of the 1972 Conference by member Governments, the Commonwealth Telecommunications Organisation Financial Agreement 1969 was replaced on 1 April 1973 by the Commonwealth Telecommunications Organisation Financial Agreement 1973.

In association with the Australian Telecommunications Commission within Australia and with communication carriers in other Commonwealth and foreign countries the Commission provides public message telegram, telephone, telex, phototelegram, leased circuit and switched data services to most countries and places throughout the world. International television programs are provided by means of satellite communication facilities with countries operating earth stations.

The Commission, in partnership with the overseas telecommunications authorities of Britain, Canada and New Zealand, installed a large capacity telephone cable across the Pacific Ocean, connecting Australia, New Zealand and Canada via Suva and Honolulu. The cable (COMPAC) was opened in December 1963 and forms part of a British Commonwealth large capacity cable scheme, in which a complementary cable between Britain and Canada (CANTAT) was officially opened in December 1961. The two cable connections are linked across Canada by a microwave system. The Commonwealth cable system feeds into the United States of America network at Hawaii and into the European network at London.

The South-East Asia cable project (SEACOM), extending the large capacity telephone cable system from Sydney to Singapore and Kuala Lumpur via Cairns, Madang, Guam, Hong Kong, and Kota Kinabalu, was opened for service on 30 March 1967.

The Commonwealth Cable Management Committee, comprising representatives of Britain, Canada, Australia, New Zealand, Malaysia and Singapore, administers COMPAC and SEACOM.

The Commission is a joint partner with the New Zealand Post Office in a 640 circuit telephone cable (TASMAN) between Australia and New Zealand which was opened for service in February 1976; and has acquired an interest in 845 circuit submarine cables jointly owned with the American and Japanese international carriers linking U.S. Mainland, Hawaii, Guam and Japan and which were completed in January 1976. The Commission is also a joint partner with the Papua New Guinea Posts and Telegraphs service in the provision of a 640 circuit submarine cable to be known as A-PNG between Cairns and Port Moresby, scheduled to enter service around July 1976.

In August 1964, Australia became a foundation member of the International Telecommunications Satellite Organisation (INTELSAT), a partnership of nations which has established a global communications satellite system. During 1976 Australia had an ownership share of 2.94 per cent making it the eighth largest shareholder among the 93 INTELSAT member countries. Through the Commission Australia is represented on the INTELSAT Board of Governors which is the management board of INTELSAT.

The Interim Agreements under which INTELSAT had operated in the period since 1964 were superseded in February 1973 by permanent arrangements, which are embodied in two inter-related Agreements. The first, an inter-governmental agreement signed by the Commonwealth Government, outlines the principles and objectives of the organisation and defines the basic organisational arrangements. The second, the Operating Agreement, signed by the Commission as the designated Australian signatory, provides the basis for the operation and management of the INTELSAT organisation.

The INTELSAT system comprises satellites located over the Atlantic, Pacific and Indian oceans. At the beginning of 1976 these satellites were providing the equivalent of 7,000 two-way telephone circuits and on demand television service between 104 earth stations located in 71 countries.

In March 1968, a satellite earth station at Moree, New South Wales, owned and operated by the Commission, commenced commercial communications, including a capability for television transmission/reception. This station, which operates to the Pacific Ocean INTELSAT satellite positioned in a stationary orbit 35,900 kilometres above the equator, was the first in Australia constructed as a 'standard' station of the INTELSAT network.

The completion of earth stations at Carnarvon (Western Australia) which operates to the Pacific Ocean INTELSAT satellite, and Ceduna (South Australia), which works to the Indian Ocean satellite, in 1969 and a significant expansion of facilities at the earth station at Moree provided increased telecommunications services via satellite. At the beginning of 1976 circuits provided by these stations provided more than half of Australia's total international telecommunications links.

The original smaller station at Carnarvon (opened in 1967) is now used solely for tracking, telemetry, command and monitoring functions under contract with the INTELSAT organisation. There is provision for four such stations to be spaced around the world so that any INTELSAT satellite can be viewed and controlled no matter where it may be. These stations keep a continuous check of the position of each satellite and its functions by means of signals transmitted by the satellite. When required, signals are transmitted to a satellite to control the direction of its antenna and to change its orbital position. During launches, these stations transmit the commands which fire the satellite motor to place it in final orbit, and during 1975 Carnarvon participated in the launch of the INTELSAT satellites which were placed in orbit over the Atlantic and Indian Oceans.

International telecommunication traffic

Particulars of the volume of international telegraph services, originating and terminating in Australia, during the years ended 31 March 1974 and 1975 are shown in the following table.

INTERNATIONAL TELEGRAPH SERVICES: AUSTRALIA, YEARS ENDED 31 MARCH 1974 AND 1975 ('000 words)

| | | | | Words tro | insmitted | | | | |
|------------------|----|--|-------------|-----------|-----------|---------|---------|---------|---------|
| Class of traffic | | | From Aus | stralia | To Austra | ılia | Total | | |
| | | | 1973–74 | 1974-75 | 1973-74 | 1974-75 | 1973-74 | 1974-75 | |
| Letter | | | | 36,494 | 35,214 | 28,484 | 27,737 | 64,978 | 62,951 |
| Ordinary | | | | 32,741 | 30.089 | 28,988 | 26,861 | 61,729 | 56,950 |
| Press | | | | 1,944 | 1,814 | 1,854 | 1,062 | 3,798 | 2,876 |
| Greetings | | | | 1,608 | 1,434 | 2,000 | 2,010 | 3,608 | 3,444 |
| Urgent | | | | 2,322 | 2,311 | 1,648 | 1,365 | 3,970 | 3,676 |
| Other | | | | 531 | 569 | 2,380 | 2,044 | 2,911 | 2,613 |
| Tot | al | | | 75,640 | 71,431 | 65,354 | 61,079 | 140,994 | 132,510 |

The following table shows particulars of overseas telecommunication traffic other than telegraphic between Australia and overseas countries for the years ended 31 March 1974 and 1975.

INTERNATIONAL TELECOMMUNICATION SERVICES OTHER THAN TELEGRAPHIC SERVICES: AUSTRALIA, YEARS ENDED 31 MARCH 1974 AND 1975

| | Transmissions | | | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--|--|
| | From Aust | ralia | To Austral | ia | Total | | | |
| Service | 1973-74 | 1974-75 | 1973–74 | 1974-75 | 1973-74 | 1974-75 | | |
| Telephone '000 paid minutes Telex '000 paid minutes Television programs . paid minutes | 12,108 6,444 1,008 | 16,143 8,280 2,741 | 13,359 6,101 4,401 | 18,152 8,076 3,982 | 25,467 12,545 5,409 | 34,295 16,356 6,723 | | |

Coastal stations

The Overseas Telecommunications Commission operates fourteen coastal radio stations at points around the Australian coast, and one at Norfolk Island. During the year ended 31 March 1975 the coastal radio service handled 6,780,000 paid words to ships and 4,262,000 words from ships. Ship calls over the radiotelephone service extended over 218,000 paid minutes.

Radiocommunication stations authorised

At 30 June 1975 there were 222,087 civil radiocommunication stations authorised for operation in Australia and its Territories. Of these, 5,627 were stations established at fixed locations, 18,704 were land stations which were established at fixed locations for communication with mobile stations, 17 space and broadcasting stations, 190,886 were mobile stations and 6,853 amateur stations. Particulars of broadcasting stations are shown on page 417.

BROADCASTING AND TELEVISION

Broadcasting and television services in Australia operate under the Broadcasting and Television Act 1942 and comprise the National Broadcasting Service, the National Television Service, the Commercial Broadcasting Service, and the Commercial Television Service. General control of these services is a function of the Australian Broadcasting Control Board. Licence fees for commercial broadcasting and television stations are payable under the Broadcasting Stations Licence Fees Act 1964 and the Television Stations Licences Fees Act 1964 respectively.

Particulars of the composition, functions and responsibilities of the Australian Broadcasting Control Board are shown in the Twenty-seventh Annual Report for the year ended 30 June 1975.

Broadcasting services

The National Broadcasting Service

In sound broadcasting the programs of the National Broadcasting Service are provided by the Australian Broadcasting Commission through transmitters operated by the Postmaster-General's Department.

Technical facilities. At 30 June 1975 the National Broadcasting Service comprised ninety-one transmitting stations, of which eighty-five were medium frequency and six high frequency.

The medium-frequency transmitters operate in the broadcast band 530 to 1,590 kilohertz. The high-frequency stations, using frequencies within the band of three to thirty megahertz, provide services to listeners in sparsely populated parts of Australia such as the north-west of Western Australia, the Northern Territory, and northern and central Queensland.

Many of the programs provided by country stations are relayed from the capital cities, high-quality program transmission lines being used for the purpose. A number of program channels are utilised to link national broadcasting stations in the capital cities of Australia, and when necessary, this system is extended to connect both the national and commercial broadcasting stations.

At 30 June 1975 seventy-one of the Australian medium-frequency stations were situated outside the six State capital cities.

Program facilities. The programs of the Australian Broadcasting Commission cover a wide range of activities. The proportion of broadcasting time allocated on metropolitan stations to the various types of program during 1974-75 was as follows: classical music 25.5 per cent; entertainment 32.1 per cent; news 8.3 per cent; sporting 5.7 per cent; light music 1.5 per cent; spoken word 7.2 per cent; drama and features 3.8 per cent; education 3.0 per cent; parliament 6.0 per cent; religious 2.8 per cent; young people's programs 1.2 per cent; rural 1.9 per cent; and presentation 1.0 per cent. Further particulars of the operations of the Australian Broadcasting Commission in respect of music, drama and features, youth education, talks, rural broadcasts, news, and other activities are shown in the Forty-third Annual Report of the Australian Broadcasting Commission.

The Commercial Broadcasting Service

Commercial broadcasting stations are operated under licences granted and renewed by the Minister for Post and Telecommunications after taking into consideration any recommendations which have been made by the Broadcasting Control Board. The initial period of a licence is five years and renewals are granted for a period of one year.

The fee payable for a licence is \$200 on the grant of the licence, and thereafter \$200 a year plus an amount ascertained by applying the following rates to 'gross earnings', within the meaning of the Broadcasting Stations Licence Fees Act 1964, during the preceding financial year—1 per cent up to \$500,000; 1.5 per cent \$500,001 to \$1,000,000; 2 per cent \$1,000,001 to \$1,500,000; 2.5 per cent \$1,500,001 to \$2,000,000; 3 per cent \$2,000,001 to \$2,500,000; 3.5 per cent \$2,500,001 to \$3,000,000; 4 per cent \$3,000,001 to \$3,500,000; and 4.5 per cent over \$3,500,000.

Overseas Broadcasting Service

There are seven high-frequency stations at Shepparton and two at Lyndhurst, Victoria, and one at Brisbane, Queensland, which provide the overseas service known as 'Radio Australia'. As in the case of the National Broadcasting Service, these stations are maintained and operated by the Australian Telecommunications Commission, and their programs are arranged by the A.B.C. The programs, which give news and information about Australia presented objectively, as well as entertainment, are directed mainly to South-East Asia and the Pacific. The overseas audience has grown very substanially in recent years, as evidenced by a large and increasing number of letters from listeners abroad.

Broadcasting stations

BROADCASTING STATIONS: 30 JUNE 1975

| Type of station | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------------------------|--------|------|-----|------|------|------|------|--------|-------|
| National— | • | | | | | | | | |
| Medium frequency . | 21 | 6 | 20 | 10 | 17 | 4 | 5 | 2 | 85 |
| High frequency . | 1 | 2 | 2 | | 1 | • • | | • • | 6 |
| Overseas (high frequency) | | 9 | 1 | | • • | •• | •• | •• | 10 |
| frequency) | 39 | 20 | 26 | 8 | 14 | 8 | 2 | 1 | 118 |
| Total | 61 | 37 | 49 | 18 | 32 | 12 | 7 | 3 | 219 |

Broadcast listeners' and television viewers licences

As from 17 September 1974 all requirements for broadcast listeners' and television viewers' licences fees were abolished. For details of licences see Year Book, No. 60.

Television services

The National Television Service

The National Television Service is provided by the Australian Broadcasting Commission through transmitters operated by the Postmaster-General's Department. The first national station (ABN Sydney) commenced regular transmission on 5 November 1956. At 30 June 1975 eighty-four stations were operating, excluding fifty-two translator stations.

The television programs provided by the Australian Broadcasting Commission cover a wide range of activities. The proportion of television time allocated among the A.B.C.'s various departments to 30 June 1975 were as follows: drama, 18.4 per cent; public interest, 12.9 per cent; sporting, 17 per cent; news, 6.2 per cent; variety and acts, 6.7 per cent; education, 25.3 per cent; musical performances, 1.1 per cent; religious, 1.5 per cent; rural, 0.4 per cent; special acts and aesthetics, 2.3 per cent; cartoons, 1.5 per cent; panel and quiz games, 0.2 per cent; and presentation, 6.5 per cent. The average weekly transmission time for the eighty-four national television transmitters was eighty-six hours during the year ended 30 June 1975.

The Commercial Television Service

Commercial television stations are operated under licences granted and renewed by the Minister for Post and Telecommunications. The first commercial station (TCN Sydney) commenced regular transmission on 16 September 1956. At 30 June 1975 forty-eight television stations were operating.

The initial grant of a licence is for a period of five years and thereafter the licence is renewable annually. The fee payable is \$200 for the first year and thereafter \$200 a year plus an amount ascertained by applying the following rates to 'gross earnings', within the meaning of the *Television Stations Licence Fees Act* 1964, during the preceding financial year—1 per cent up to \$1,000,000; 2 per cent \$1,000,001 to \$2,000,000; 3 per cent \$2,000,001 to \$4,000,000; and 4 per cent over \$4,000,000.

Colour television

Colour television services commenced officially in Australia on 1 March 1975.

Television stations

During the year ended 30 June 1975, twelve new national television stations commenced regular transmission, namely ABAQ Channel 8, Alpha; ABBQ Channel 10, Barcaldine; ABBLQ Channel 9, Blackall; ABCTQ Channel 10, Clermont; ABJQ Channel 6, Longreach; ABSEQ Channel 9, Springsure; ABWNQ Channel 8, Winton in Queensland; ABEW Channel 10, Esperance; ABMW Channel 10, Moora; ABCMW Channel 8, Morawa in Western Australia; ABKD Channel 7, Katherine; and ABTD Channel 9, Tennant Creek in the Northern Territory. Eight new television translator stations went into operation, six for the national service and two commercial service.

Ten remote communities are now provided with A.B.C. programs from tape recorded at Townsville and Perth. The following table shows the number of television stations in operation at 30 June 1975.

| TELEVISION | STATIONS. | 20 | TIME | 1075 |
|----------------|-----------|------|---------|------|
| I B.I.B.VINIUM | STATIONS: | -717 | ALLINE. | 14/5 |

| Type of station and location | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Total |
|---------------------------------|--------|--------|--------|--------|--------|--------|------|--------|-------|
| National— | | | | | | | | | _ |
| Metropolitan | 1 | 1 7 | 1 | 1 5 | 1 | 1 2 | 1 | 1 | _8 |
| Country | 13 | 7 | 31 | 5 | 15 | 2 | 3 | • • | 76 |
| Total, National. | 14 | 8 | 32 | 6 | 16 | 3 | 4 | 1 | 84 |
| Commercial— | | | | | | | | | |
| Metropolitan | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 17 |
| Country | 11 | 3 6 | 3 8 | 3 2 | 2 3 | 1 | | | 31 |
| Total, Commercia | 1 14 | ġ | 11 | 5 | 5 | 2 | 1 | 1 | 48 |
| All stations . | 28 | 17 | 43 | 11 | 21 | 5 | 5 | 2 | 132 |

CHAPTER 13

SOCIAL SECURITY AND WELFARE SERVICES

This chapter describes social welfare services provided by the Commonwealth Government (through the Departments of Social Security and Aboriginal Affairs), the State Governments and voluntary welfare organisations. Details of services administered by the Commonwealth Departments of Health and Veterans' Affairs are given in the Public Health and Repatriation chapters respectively. For information on the many important welfare services provided by the State and local governments, especially in the fields of child and Aboriginal welfare, reference should be made to the State Year Books and annual statistical bulletins and the annual reports of the State departments concerned. Details on pension and superannuation schemes for government and semi-government employees, mine workers, parliamentarians, and employees of private business are included in the chapter Private Finance.

Further information on subjects dealt with in this chapter is included in the annual bulletins Australian National Accounts (7.1); Public Authority Finance: Federal Authorities (5.12); Public Authority Finance: State and Local Government Authorities (5.43); Public Authority Finance: State Governments; Social Services (5.37); Public Authority Finance: Outlay on Aboriginal Affairs by Federal Authorities (5.42) Social Indicators (13.16). Current and summarised information on Commonwealth Government social services is contained in the Monthly Review of Business Statistics (1.4).

Commonwealth Government expenditure on social security services

This section deals with various government payments for the relief of the aged, indigent, infirm, widowed, orphaned and unemployed, assistance to families, etc. For summary statements of cash payments to persons made by public authorities under various functional heads, see Public Authority Finance and other annual bulletins mentioned above.

AUTHORITIES OF THE COMMONWEALTH GOVERNMENT, SOCIAL SECURITY CASH BENEFITS TO PERSONS, 1974-75
(\$'000)

| • | N.S.W. (a) | Vic. | Qld | S.A. (a) | W.A. | Tas. | N.T. (a) | | Abroad | Total |
|---|---|---|--|---|---|---------------------------------------|-------------------|-------------------|--------------------|---|
| Assistance to aged persons— Age pensions Delivered meals Personal care Telephone concessions Total | 359 1,921 2,710 | 432,555 114 2,283 2,084 437,036 | 148 1,191 877 | 158,657 172 1,107 654 160,590 | 118,492 115 883 509 119,999 | 60 266 219 | | 117 117 | 5,077 5,077 | 1,612,451 968 7,651 7,053 1,628,123 |
| Assistance to incapacitated and handicapped persons— Invalid pensions | 127,034 | 68,190 | 49,088 | 30,195 | 20,320 | 9,893 | | 24 | 1,735 | 306,477 |
| ances Handicapped children's benefits Rehabilitation services Total | 1,484 1,017 2,581 132,116 | 444 3,248 71,882 | 330 1,234 50,683 | 944 275 982 <i>32,396</i> | 575 309 908 22,112 | 94 369 10,397 | | 24 | 6 1,741 | 3,075 2,469 9,329 321,350 |
| Assistance to unemployed and sick persons— Unemployment benefits. Sickness benefits Spectal benefits Structural adjustment assis- | 93,760 24,395 4,281 | 66,361 18,193 2,560 | 42,422 8,596 1,746 | 20,475 4,855 735 | 19,753 4,415 777 | 7,746 1,692 422 | 752 188 422 | 470 498 50 | | 251,740 62,833 10,992 |
| tance Other | 21,552 7 143,995 | 22,427 1 109,542 | 2,516 6 55,286 | 2;790 1 28,856 | 252 2 25,199 | 1,503 2 11,365 | 1,362 | 1,018 | | 51,040 20 <i>376,625</i> |
| Assistance to ex-servicemen(b)— War and service pensions and allowances Other benefits(c) Total | | 124,014 124,014 | 78,823 78,823 | 41,715 41,715 | · | 20,376 20,376 | | 334 <i>334</i> | 1,885 1,885 | 469,908 4,254 474,162 |
| Assistance to widowed and de- serted spouses— Widows' pensions Assistance to families and child- | 87,955 | 66,474 | 33,325 | 25,193 | 18,459 | 8,521 | •• | 29 | 1,435 | 241,389 |
| ren— Child endowment Maternity allowances Supporting mothers' benefits Orphans' pensions Total | 79,395 2,767 26,473 601 109,236 | 62,885 1,978 15,786 291 80,940 | 34,401 1,177 13,505 223 49,306 | 21,937 695 9,293 146 32,071 | 19,084 659 8,102 76 27,921 | 7,099 229 2,819 43 10,190 | | 9 '9 18 | 39 1 104 | 224,848 7,506 76,092 1,381 309,827 |

For footnotes see end of table

AUTHORITIES OF THE COMMONWEALTH GOVERNMENT, SOCIAL SECURITY CASH BENEFITS TO PERSONS, 1974-75—continued (\$'000)

| | | | | , | | | | | | |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------------|--------|--------|-----------|
| | N.S.W. | | | S.A. | | | N.T. A.C.T. | | | |
| | (a) | Vic. | Qld | (a) | W.A. | Tas. | (a) | (a) | Abroad | Total |
| Other social security and welfare | | | | | | | | | | |
| Funeral benefits | 647 | 417 | 260 | 159 | 112 | 44 | | | 2 | 1,641 |
| Telephone rental concessions | | | | | | | | | | |
| n.e.c | 455 | 374 | 190 | 115 | 112 | 53 | | | | 1,299 |
| Compassionate allowances . | 18 | 24 | 41 | 6 | 2 | 2 | | 1 | 2 | 95 |
| Assistance to homeless persons | | | | | | | | 275 | | 275 |
| Other(c) | | | | | | | | | | 432 |
| Total | 1,120 | | 491 | 280 | 226 | 99 | | 276 | 4 | 3,742 |
| Health benefits (d) | 316,713 | 189,926 | 99,358 | 78,337 | 60,187 | 22,144 | | 50,383 | | 817,045 |
| Total social security . | 1,562,098 | 1,080,629 | 616,610 | 399,438 | 311,098 | 133,863 | 1,362 | 52,199 | 10,286 | 4,172,263 |

⁽a) State totals for New South Wales and South Australia also include most of the unallocable expenditure on cash benefits to persons resident in the Australian Capital Territory and the Northern Territory respectively. (b) For details see Chapter 5, Repatriation. (c) Expenditures on this item are unallocable by States and are included in total only. (d) For details see Chapter 14, Public Health.

AUTHORITIES OF THE COMMONWEALTH GOVERNMENT, SOCIAL SECURITY CASH BENEFITS TO PERSONS (\$'000)

| | 1970-71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|---|-----------|---------|----------|-----------|-----------|
| Assistance to aged persons— | | | | | |
| Age pensions | 582,889 | 680,322 | 887,750 | 1,146,387 | 1,612,451 |
| Delivered meals | 218 | 226 | 398 | 958 | 968 |
| Personal care | 1,592 | 1,830 | 3,273 | 4,949 | 7,651 |
| Telephone concessions | 2,955 | 3,806 | 4,172 | 5,394 | 7.053 |
| Total | 587,654 | 186,184 | | 1,157,688 | 1,628,123 |
| Assistance to incapacitated and handicapped | , | , | ŕ | | |
| persons— | | | | | |
| Invalid pensions | 119,387 | 138,194 | 184,699 | 226,022 | 306,477 |
| Sheltered employment allowances | 590 | 742 | 1,161 | 1,418 | 3,075 |
| Handicapped children's benefits | 456 | 438 | 429 | 582 | 2,469 |
| Rehabilitation services | 3,107 | 3,945 | 4,658 | 6,203 | 9,329 |
| Total | 123,540 | 143,319 | 190,947 | | 321,350 |
| | 123,340 | 143,319 | 130,547 | 254,225 | 321,330 |
| Assistance to unemployed and sick persons— | 10 70 7 | 25.00 | 46.000 | 50.046 | 251 540 |
| Unemployment benefits | 10,795 | 25,997 | 46,553 | 58,246 | 251,740 |
| Sickness benefits | 10,262 | 15,906 | 26,610 | 41,407 | 62,833 |
| Special benefits | 2,420 | 2,851 | 4,368 | 6,983 | 10,992 |
| Structural adjustment assistance | | | | | 51,040 |
| Other | | | 80 | 44 | 20 |
| Total | 23,477 | 44,754 | 77,611 | 106,681 | 376,625 |
| Assistance to ex-servicemen(a)— | | | | | |
| War and service pensions and allowances . | 234,979 | 260,150 | 297,304 | 355,803 | 469,908 |
| Other benefits | 3,823 | 4,058 | 3,720 | 4,025 | 4,254 |
| Total | 238,802 | 264,208 | 301,024 | 359,828 | 474,162 |
| Assistance to widowed and deserted spouses— | | | | | |
| Widows' pensions | 90,514 | 104,627 | 140,505 | 180,957 | 241,389 |
| Assistance to families and children— | , ,,,,,,, | , | 2 10,000 | , | ,, |
| Child endowment | 198,442 | 216,581 | 253,860 | 225,360 | 224,848 |
| | , | | 7,970 | 7,782 | |
| | ., | 8,617 | ,- | | 7,506 |
| Supporting mothers' benefits | • • | • • | • • | 40,586 | 76,092 |
| Orphans' pensions | | | | 458 | 1,381 |
| Total | 206,996 | 225,198 | 261,860 | 274,186 | 309,827 |
| Other social security and welfare programs— | | • | | | |
| Funeral benefits | 1,653 | 1,583 | 1,579 | 1,578 | 1,641 |
| Telephone rental concessions n.e.c | 662 | 802 | 863 | 1,024 | 1,299 |
| Emergency assistance to wool-growers(b) | 21,327 | 187 | | | |
| Compassionate allowances | 91 | 98 | 104 | 104 | 95 |
| Assistance to homeless persons | | | | | 275 |
| Other | 137 | 132 | 134 | 378 | 432 |
| Total | 23,870 | 2,802 | 2,680 | 3,084 | 3,742 |
| Health benefits(c) | 409,480 | 508,133 | 581,283 | 659,003 | 817,045 |
| Total social security | 1,704,333 | , | • | | |

⁽a) For details see Chapter 5, Repatriation. Chapter 14, Public Health.

⁽b) For details see Chapter 22, Rural Industry.

⁽c) For details see

Commonwealth Government social services

Under the provisions of Section 51 of the Constitution, the Commonwealth Government is empowered to legislate on:

'(xxiii) Invalid and old age pensions:

'(xxiiiA) The provision of maternity allowances, widows' pensions, child endowment, unemployment, pharmaceutical, sickness and hospital benefits, medical and dental services (but not so as to authorize any form of civil conscription), benefits to students and family allowances;'.

On 1 July 1947 with the passage of the Social Services Consolidation Act 1947, all Acts providing social service benefits were amalgamated. The Act is at present styled the Social Services Act 1947.

The social security benefits provided by the Commonwealth Government under the Social Services Act 1947, and the date on which each came into operation, are:

| Age pension | 1 July 1909 |
|---|-------------------|
| Invalid pension | 14 October 1910 |
| Maternity allowance | 10 October 1912 |
| Child endowment | 1 July 1941 |
| Widow's pension and allowance for one child | 30 June 1942 |
| Funeral benefit | 1 July 1943 |
| Allowances for wife and one child of pensioners who are | |
| invalided | 8 July 1943 |
| Unemployment benefit | 1 July 1945 |
| Sickness benefit | 1 July 1945 |
| Special benefit | 1 July 1945 |
| Commonwealth Rehabilitation Service | 10 December 1948 |
| Additional pension for second and subsequent children | |
| of pensioners who are invalided | 11 October 1956 |
| Additional pension for second and subsequent children | |
| of widows' pensioners | 16 October 1956 |
| Supplementary assistance for rent-paying age and in- | |
| valid pensioners | 23 October 1958 |
| Supplementary assistance for rent-paying widows' | |
| pensioners | 28 October 1958 |
| Mother's allowance for widows' pensioners with | |
| dependent children | 8 October 1963 |
| Student endowment | 14 January 1964 |
| Allowances for wife and one child of age pensioners | |
| who are not invalided | 14 October 1965 |
| Additional pension for second and subsequent children | |
| of age pensioners who are not invalided | 14 October 1965 |
| Guardians' allowances for widowed and other unmarried | |
| age and invalid pensioners with children in their care. | 14 October 1965 |
| Sheltered employment allowance | 30 June 1967 |
| Training scheme for widow pensioners | 27 September 1968 |
| Special payments to the surviving spouse of a pen- | |
| sioner couple | 10 October 1968 |
| Additional pension for all children (i.e. allowance for | |
| one child converted to additional pension as for other | |
| children) | 10 October 1968 |
| Supplementary allowance for rent paying sickness | |
| beneficiaries after six weeks | 28 September 1970 |
| Wife's pension (superseded wife's allowance) | 5 October 1972 |
| Supporting mother's benefit (including mother's allow- | |
| ance and additional benefit for children) | 3 July 1973 |
| Double orphans' pension | 9 October 1973 |
| Incentive allowance for sheltered employees | 1 November 1974 |
| Handicapped child's allowance | 30 December 1974 |
| | |

Age and invalid pensions and associated payments

Age pensions are payable to residentially qualified men and women who have reached the ages of 65 and 60 respectively. They are subject to a means test unless the person is permanently blind or has reached the age of 70. They are also subject to tax.

To be residentially qualified for age pension a person must generally be living in Australia on the date of application for the pension and have lived in Australia for ten years continuously at some time. If a person has completed five years, but not ten years, continuous residence at some time, and has lived in Australia for periods which exceed a total of ten years, the period of continuous residence otherwise required is reduced by the total of his periods of residence in Australia in excess of ten years. Any periods of absence during which a person's home remains in Australia, and absences incertain other circumstances, may be counted as residence, and any absence in an external Territory other than Norfolk Island, counts as residence in Australia. Residence in New Zealand or the United Kingdom may be treated as residence in Australia.

Invalid pensions are payable to persons, sixteen years of age and over, who are permanently incapacitated for work to the extent of at least eighty-five per cent, or permanently blind. They are subject to means test unless the person is permanently blind.

There is no residence qualification for invalid pension if the permanent blindness or incapacity occurred within Australia (including an external Territory other than Norfolk Island) or during temporary absence from Australia. As a result some people not residentially qualified for age pension but who have reached age pension age receive an invalid pension. Invalid pension is subject to tax in these cases but not in others.

A wife's pension is payable to the wife of a pensioner not entitled, in her own right, to an age, invalid or repatriation service pension. There is no residence qualification but a means test applies. Wife's pension is taxable only if her husband has reached the age of 65.

Rates of pension. The maximum standard rate was increased to \$2,145 per annum (\$41.25 a week) from 13 May 1976. This is payable to a single, widowed or divorced pensioner, or a married pensioner whose spouse is not receiving a pension or a tuberculosis allowance. The standard rate may also be paid to each of a married pensioner couple who are living apart for an indefinite period due to illness or infirmity of either or both. The maximum rate for a married pensioner couple (known as the married rate) was increased to \$3,562 per annum (\$68.50 a week) from 13 May 1976 (i.e. \$1,781 per annum or \$34.25 a week each). For a married person, whose spouse receives a tuberculosis allowance, or a service pension, the maximum rate is also \$1,781 per annum (\$34.25 a week).

Additional pension for each dependent child under 16 years is payable, subject to the means test, at the rate of up to \$390 per annum (\$7.50 a week). Widowed or other unmarried age or invalid pensioners with a dependent child may receive a guardian's allowance up to \$4 a week, or up to \$6 a week if the child is under 6 years of age or is an invalid child requiring full-time care. Guardian's allowance is also subject to the means test. Eligibility for the additional pension for children is extended to include a child over sixteen years, provided he is wholly or substantially dependent on the pensioner and is receiving full-time education at a school, college or university. Supplementary assistance of up to \$5 a week (standard rate pensioners) and \$2.50 a week (married rate pensioners) subject to a special means test, is available to pensioners if they pay rent or pay for board and lodging or for lodging.

On the death of one member of a married pensioner couple the surviving pensioner spouse becomes entitled to receive, for up to six fortnightly instalments, the equivalent of the two pensions that would have been paid if the spouse had not died. For the purpose of this provision the term 'pensioner' includes a person in receipt of age, invalid, wife's or repatriation service pension, or a sheltered employment allowance.

A table showing the maximum rates of pension operating since 1 July 1909 at dates prior to 14 October 1965 is included on page 608 of Year Book No. 51. Details of the respective rates and allowances payable since 14 October 1965 are included in subsequent Year Books.

The means test is the same for age and invalid pension purposes. As already noted, it does not apply to the permanently blind or, in the case of age pensions, to people who have reached 70 years of age. In other cases, the means test operates to reduce pension payable if a claimant's means as assessed—in effect, the claimant's annual income other than from property plus 10 per cent of the excess of the claimant's property over \$400—exceed prescribed limits. In the case of a person entitled to the standard rate of pension, the limit is \$1,040; in other cases, it is \$897. If means as assessed exceed these figures, half the excess is subtracted from the appropriate maximum rate of pension. If means as assessed do not exceed these figures, the appropriate maximum rate is payable.

The effect of the means test is to preclude from entitlement to any pension a person subject to the means test and whose 'income' exceeds \$102.50 a week or whose property exceeds \$53,700 in value (these figures are both lower if the claimant has both income and property). The corresponding figures for a married couple without children are \$85.75 a week and \$45,000 (each partner).

Supplementary assistance is subject to a special means test, the effect of which is to reduce the maximum annual rate by the excess of a person's means as assessed over \$52 (standard rate pensioner) or half the excess of means as assessed over \$52 (married rate pensioners).

Certain types of income are exempted. The main exemptions are: income from property; gifts or allowances from children, parents, brothers, or sisters; benefits from friendly societies; child or student endowment; Commonwealth Government health benefits and amounts received from registered hospital or medical benefit organisations. The amount of a pensioner's income included in means as assessed may also be reduced by up to \$312 per annum (\$6 per week) for each dependent child under sixteen years or full-time student in the pensioner's care.

A special concession is made available to recipients of superannuation pensions and annuities, the annual rate of such payments being converted to a property equivalent for means test purposes by reference to a specific conversion factor. This conversion is to the pensioner's advantage in the majority of cases but where this is not so, the payments are treated as income.

Certain types of property are disregarded. They include the permanent home of the pensioner, furniture and personal effects, the surrender value (up to \$1,500) of life insurance policies, the capital value of annuities or contingent interests, and the value of reversionary interests.

For the purposes of the means test, the means as assessed of a married person are normally taken to be half of the combined means as assessed of the married couple. Exceptions may be made where the spouses are legally separated or in other special circumstances.

| AGE | AND | INVALID | PENSIONS | IN | FORCE | 30 | JUNE | 1075 |
|-----|-----|---------|----------|----|-------|----|------|------|
| | | | | | | | | |

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|------------|---------|---------|---------|---------|--------|--------|-------|--------|-----------|
| Age— | | | | | | | | | |
| Males | 125,972 | 95,408 | 56,148 | 33,875 | 26,489 | 11,225 | 719 | 1,380 | 351,216 |
| Females | 276,398 | 205,431 | 110,306 | 73,404 | 53,342 | 23,044 | 981 | 3,103 | 746,009 |
| Persons | 402,370 | 300,839 | 166,454 | 107,279 | 79,831 | 34,269 | 1,700 | 4,483 | 1,097,225 |
| Invalid(a) | | | | | | | | | |
| Males | 41,963 | 23,863 | 16,424 | 9,703 | 6,676 | 3,341 | 504 | 343 | 102,817 |
| Females | 26,965 | 14,394 | 11,040 | 6,645 | 4,285 | 2,119 | 295 | 224 | 65,967 |
| Persons | 68,928 | 38,257 | 27,464 | 16,348 | 10,961 | 5,460 | 799 | 567 | 168,784 |

⁽a) Includes recipients of sheltered employment allowance,

NEW PENSIONERS, BY SEX AND MARITAL STATUS: AUSTRALIA, 1974-75

| | | | | | Age pen | sioners | | Invalid pensioners | | | |
|-------------|-----|--|---|--|---------|------------|------------|--------------------|---------|---------|--|
| Marital sta | tus | | | | Males | Females(a) | Persons(a) | Males | Females | Persons | |
| Single(b) | | | | | 6,008 | 8,549 | 14,557 | 6,863 | 4,151 | 11.014 | |
| Married | | | | | 42,682 | 37,475 | 80,157 | 14,912 | 3,330 | 18,242 | |
| Widowed | | | | | 6,573 | 21,025 | 27,598 | 1,114 | 703 | 1,817 | |
| Divorced | | | • | | 1,027 | 1,307 | 2,334 | 840 | 481 | 1,321 | |
| Tota | ıł. | | | | 56,290 | 68,356 | 124,646 | 23,729 | 8,665 | 32,394 | |

⁽a) Excludes transfers from wives' allowance to age pension. (b) Includes married but permanently separated.

The average age of new age pensioners was 69.9 years for men and 68.3 years for women.

NEW INVALID PENSIONERS, BY AGE GROUP: AUSTRALIA, 1974-75

| | | | 16–19 years | 20–44 years | 45–59 years | 60–64 years | 65 years and over | Total |
|------------------|---|------------------|----------------|----------------|-----------------|----------------|----------------------|-----------------|
| Males Females | : | number number | 1,225 1,151 | 3,502 2,614 | 10,229 4,632 | 8,242 159 | 531 109 | 23,729 8,665 |
| Persons | | number | 2,376 | 6,116 | 14,861 | 8,401 | 640 | 32,394 |
| | | Per cent | 7 | 19 | 46 | 26 | 2 | 100 |

AGE AND INVALID PENSIONS: SUMMARY, AUSTRALIA

Average weekly pensions as at end of year Pensioners at end of year Total Age and payments invalid Age during Invalid combined (d) (d)Year Number Rate(a) Invalid(b) Total year(c) Agc(d)S S'000 S No. No. 1970-71 807,711 613 134,075 941,786 702,276 14.36 16.54 14.67 1971-72 138,818 971.511 818,517 16.38 18.98 16.75 832 693 620 19.70 1972-73 931,812 678 149,609 1.081,421 1,072,449 22.67 20.11 1973-74 1,027,582 729 156,783 1,184,365 1,372,409 23.99 26.73 24.35 1974-75 33.09 33.51 1,097,225 763 168,784 1,266,009 1,612,468 36.28

Sheltered employment allowance and associated payments

Sheltered employment allowance is payable to disabled people who are employed in sheltered workshops and are otherwise qualified to receive an invalid pension or would become so qualified if they ceased to be provided with sheltered employment. The allowance is subject to the same means test as applies to invalid pension and is paid at the same rate. It is payable in the form of a supplement to the sheltered employee's wages. The allowance is not taxable unless the sheltered employee has reached age pension age.

A sheltered employee is entitled to the same additional payments as an invalid pensioner except that no supplementary assistance is payable. Instead, all people in receipt of sheltered employment allowance receive an incentive allowance of \$5 a week. There is no means test on the allowance but a person precluded by his or her means from receiving sheltered employment allowance is not entitled to incentive allowance.

In the year ended 30 June 1975, workshops were approved under the *Social Services Act* 1947 to pay sheltered employment allowances on behalf of the Department of Social Security. At 30 June 1975 sixty workshops were paying the allowances to 2,772 disabled employees. Employees in other sheltered workshops continued to receive invalid pensions. Expenditure during the year 1974–75 was \$3,075,401.

Widows' pensions and associated payments

There are three categories of widowed pensioners—

Class 'A'. A widow who has the custody, care and control of one or more qualifying children under the age of sixteen years or full-time dependent students;

Class 'B'. A widow who, because she has no qualifying children or students in her custody, care and control, is not eligible for a Class 'A' widow's pension but is either at least 50 years of age or, after having reached the age of 45, has ceased to receive a Class 'A' pension by reason of ceasing to have the custody, care and control of a qualifying child or student; and

Class 'C'. A widow not eligible for Class 'A' or Class 'B' widow's pension, is under 50 years of age but is in necessitous circumstances following her husband's death (in normal circumstances, the Class 'C' pension is not payable after 26 weeks have elapsed from the death of the husband but, if the widow is pregnant, the period is extended until the child's birth, whereupon the widow may then become eligible for a Class 'A' widow's pension).

⁽a) Number of pensioners per 1,000 persons of pensionable age (males aged 65 years and over and females aged 60 years and over).

(b) Includes recipients of sheltered employment allowance.
(c) Includes allowances and supplementary assistance.
(d) Includes supplementary assistance, additional pensions for children, and guardian's allowance, where applicable.

For classes 'A' and 'B' the term 'widow' includes a wife who has been deserted by her husband for a period of at least six months; a divorcee; and a woman whose husband has been for at least six months in prison or in a mental hospital. A woman who, although not legally married, has been living with a man for at least three years as his wife on a bona fide domestic basis and subsequently loses her partner by reason of death, desertion or his imprisonment or admission to a mental hospital is treated as though she had been legally married to him.

A period of residence in Australia before claiming a pension is not required if a woman and her husband were residing permanently in Australia when she became a widow. In other circumstances, five years continuous residence preceding lodgment of the claim may be required, but this is waived in the case of a woman whose husband has died overseas if she has resided continuously in Australia for ten years at any time and returns to Australia to live.

A widow's pension is not payable to a woman receiving an age or invalid pension, a sheltered employment allowance, or a war widow's pension. A deserted wife or a divorcee who has not taken reasonable action to obtain maintenance from her husband or former husband may be ineligible for a widow's pension.

Current rates of pension. With effect from 4 May 1976, the maximum rate of pension for all classes of widows is \$2,145 per annum (\$41.25 a week) plus, in the case of widows with children, mother's allowance of \$208 per annum (\$4 a week) or \$312 per annum (\$6 a week) where at least one child is under 6 or is an invalid requiring full-time care, plus \$390 per annum (\$7.50 a week) for each dependent child who is under 16 years or is a full-time dependent student. Supplementary assistance of up to \$260 a year (\$5 a week) is also available to widows who pay rent or pay for board and lodgings or for lodgings and who are wholly or substantially dependent on their pension. The amount of this assistance cannot exceed the amount of rent paid.

Widow's pension is subject to a means test but is not taxable if the recipient is under 60. If she is 60 years or more, the pension is taxable but mother's allowance, additional pension for children and supplementary assistance are not.

Means test. Widow's pensions are subject to a means test on income and property. The means test for widow pensions also applies to recipients of the supporting mother's benefit described below. The rate of pension payable in any case depends on the claimant's means as assessed. When calculating the means as assessed of a claimant for Class 'A' widow's pension or supporting mother's benefit no amount in respect of property is taken into account where the value of the widow's or supporting mother's property is \$4,500 or less. If the value of property exceeds \$4,500 the woman's total assets or property are equated with income by treating each complete \$20 of assets above \$2,000 as equivalent to an income of \$2 a year. This amount is the property component. Means as assessed may consist entirely of the property component, entirely of income, or of various combinations of the property component and income. As for age and invalid pensions some types of income and property are disregarded for purposes of calculating means as assessed. The method for calculating the means as assessed of a claimant for Class 'B' widow's pension is the same as for single, widowed or divorced claimants for age or invalid pension (see page 422). For Classes 'A' and 'B' widows and supporting mothers annual maximum standard rate of pension plus any additional allowances are reduced by half of the amount of any means as assessed in excess of \$1,040. There is no specific means test for the Class 'C' pension, which is paid only where it is evident that a widow has insufficient means of support. Supplementary assistance is reduced by the amount by which means as assessed exceed \$52.

The average age of new widow pensioners admitted during 1974–75 was: Class 'A', 36.3 years; Class 'B', 56.6 years; Class 'C', 42.7 years; and for all classes, 44.6 years.

It should be noted that deserted wives ineligible for Class 'A' or Class 'B' widow's pension because six months have not expired from the date of desertion by the husband may be eligible for assistance from the Government of the State in which she lives. The Commonwealth Government subsidises the the State Governments for this purpose under the States Grants (Deserted Wives) Act. It also assists deserted wives in the Territories during the first six months after desertion.

| WIDOWE | PENSIONS. | 1074 75 |
|--------|-----------|---------|
| | | |

| | | | Number admitted —all | Pensions | current at en | d of year | | Averuge weekly pension | Amount paid in pensions during |
|--------------------|------|------|----------------------------|--------------|---------------|--------------|----------------|------------------------------|---|
| | | | classes (a) | Class 'A' | Class 'B' | Class 'C' | All classes | at end of year (b) | year (b) (c) |
| | | | | | | | | S | \$,000 |
| New South Wales | | | 9,184 | 24,554 | 19,143 | 40 | 43,737 | 44.84 | 86,252 |
| Victoria . | | | 6,793 | 19,164 | 14,876 | 16 | 34,056 | 44.67 | 66,474 |
| Queensland . | | | 2,751 | 8,302 | 7,809 | 9 | 16,120 | 45.76 | 33,325 |
| South Australia | | | 1,731 | 6,154 | 5,662 | 6 | 11,822 | 43.99 | 23,873 |
| Western Australia | | | 2,362 | 4,930 | 4,493 | 19 | 9,442 | 44.37 | 18,459 |
| Tasmania . | | | 707 | 2,481 | 1,616 | 6 | 4,103 | 46.88 | 8,521 |
| Northern Territory | , | | 124 | 381 | 259 | | 640 | 49.53 | 1,320 |
| Australian Capita | l Te | rri- | | | | | | | |
| tory | | | 194 | 552 | 319 | | 871 | 44.72 | 1,702 |
| Abroad . | • | • | | (d) | (d) | (d) | (d) | | 1,465 |
| Total . | | | 23,846 | 66,518 | 54,177 | 96 | 120,791 | 44.89 | 241,392 |

⁽a) Excludes transfers from one class to another. (b) Includes supplementary assistance and allowances. (c) Includes payments to benevolent homes for maintenance of pensioners. (d) Included in the figures for the State or Territory in which the pensioner is normally domicited.

WIDOWS' PENSIONS: SUMMARY, AUSTRALIA

| | | Number admitted | Pensions | current at en | ad of year | | Average weekly pension | Amount paid in pensions |
|---|------|------------------------|--------------|---------------|--------------|----------------|------------------------------|---------------------------|
| Year | | —all classes (a) | Class 'A' | Class 'B' | Class 'C' | All classes | at end of year (b) | during year (b) (c) |
| *************************************** | | | | | | | S | \$'000 |
| 197071 | | 18,223 | 47,146 | 43,157 | 96 | 90,399 | 19.72 | 90,514 |
| 1971-72 | | 19,413 | 49,811 | 42,893 | 80 | 92,784 | 23.31 | 104,627 |
| 1972-73 | | 28,275 | 57,872 | 47,768 | 77 | 105,717 | 28.28 | 140,505 |
| 1973-74 | | 25,458 | 64,084 | 51,137 | 89 | 115,310 | 32.79 | 180,957 |
| 1974-75 | | 23,846 | 66,518 | 54,177 | 96 | 120,791 | 44.89 | 241,392 |

⁽a) Excludes transfers from one class to another. (b) Includes supplementary assistance and allowances. (c) Includes payments to benevolent homes for maintenance of pensioners.

For details of training scheme for widow pensioners, see page 435.

Supporting mother's benefit

Supporting mother's benefit is for unmarried mothers, mothers who are deserted de facto wives, de facto wives of prisoners, or separated wives. The benefit becomes payable six months after the date of the event giving rise to eligibility (e.g. six months after the date of birth of a child, or six months after the date of separation). A supporting mother is qualified to receive a benefit if she is residing in Australia on the date on which she lodges her claim for the benefit and, if unmarried, the child was born while she was residing in Australia; or, in the case of a married woman living apart from her husband, she was residing in Australia immediately before they commenced to live apart; or, in the case of a deserted de facto wife or the de facto wife of a prisoner, if she was residing in Australia immediately before the de facto relationship ceased; or if a woman has been continuously resident in Australia for not less than five years immediately preceding the date on which she lodged a claim for the benefit. To be eligible for the benefit a woman must be supporting an eligible child under the age of 16 years, or an older dependent full-time student. The rate of supporting mother's benefit, including mother's allowance and payments for children, is the same as for Class 'A' widow's pension.

It should be noted that a woman ineligible for supporting mother's benefit because six months have not expired from the date of the event otherwise giving rise to eligibility may be entitled in the meantime to assistance from the Government of the State in which she lives. The Commonwealth Government subsidises the States for this purpose under the States Grants (Deserted Wives) Act. If the woman is living in one of the Territories, the Commonwealth Government may make assistance available in the first six months after desertion.

Fringe benefits

The Commonwealth Government makes available to pensioners (and in certain cases, recipients of supporting mother's benefits) several 'fringe benefits'. In most cases these are subject to a special means test. These benefits include—

a one-third reduction in telephone rental (this is available to the blind without a means test). The costs for 1974-75 were \$7,052,656 for concessions and \$192,639 for administering the scheme:

- a 50 per cent reduction in fares for Commonwealth Government railway and shipping services: certain postal concessions;
- a 10 per cent discount on book purchases from Commonwealth Government bookshops (this is available free of means test);

free hearing aids;

the availability without charge of certain pharmaceutical prescriptions;

free optometrical consultations; and

additional nursing home benefits.

State Governments, local government authorities and private organizations also provide certain fringe benefits. The most valuable of these are reductions in local government rates and in public transport charges.

The means test operates on the basis of means as assessed as defined for pension purposes. A standard-rate pensioner whose means as assessed are less than \$1,716 qualifies for those fringe benefits subject to the means test. A married-rate pensioner qualifies if their means as assessed are less than \$1495.

Funeral benefits

A benefit of up to \$40 is payable to an eligible age, invalid, wife or widow pensioner who is liable for the funeral costs of another such deceased pensioner, a deceased child or a deceased spouse; a benefit of up to \$20 is payable to any (other) person liable for the funeral costs of a deceased age or invalid pensioner in respect of whose burial a funeral benefit may be granted. These benefits are subject to the 'fringe benefits' means test, applied in the first case, to the person liable for the funeral costs and, in both cases, to the means of the deceased pensioner or beneficiary (where relevant) prior to his or her death.

| FUNERAL | BENEFITS | GRANTED |
|----------------|----------|---------|
| | (Number) | |

| State, Territory, et | <i>c</i> . | | | 1970-71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|----------------------|------------|----------------|-------|---------|---------|---------|---------|---------|
| New South Wales | | - - | • | 22,430 | 20,802 | 20,854 | 20,418 | 21,772 |
| Victoria . | | | | 14,881 | 13,973 | 13,782 | 13,939 | 14,184 |
| Queensland . | | | | 8,505 | 8,046 | 8,168 | 8,219 | 8,797 |
| South Australia | | | | 4,937 | 4,976 | 4,918 | 4,909 | 5,164 |
| Western Australia | | | | 3,741 | 3,649 | 3,470 | 3,386 | 3,769 |
| Tasmania . | | | | 1,408 | 1,474 | 1,424 | 1,497 | 1,494 |
| Northern Territory | , | | | . 8 | 7 | 12 | 21 | 17 |
| Australian Capital | Ter | ritory | | 175 | 178 | 175 | 178 | 256 |
| Abroad . | | • | | 3 | 8 | | n.a. | n.a |
| Total , | | | | 56,088 | 53,113 | 52,803 | 52,567 | 55,453 |

Total cost of funeral benefits granted during 1974-75 was \$1,640,595.

Portability of social service payment

Age, invalid and widows' pensions, and supporting mother's benefits, continue in force for recipients who have left Australia unless they left before 8 May 1973 or their pension or benefit is subject to the provisions of either of the reciprocal agreements with New Zealand or the United Kingdom. In certain cases of hardship, the pension or benefit may continue for people who left before 8 May 1973.

Maternity allowances

A maternity allowance is payable to a woman who gives birth to a child if she resides, or intends to reside permanently in Australia and gives birth to the child in Australia, and to a woman who

gives birth to a child while travelling to Australia if she intends to reside permanently in Australia, provided she receives no benefit similar to a maternity allowance from the country from which she came. A woman who gives birth to a child during a temporary absence from Australia may also be eligible. An alien mother may receive the allowance if she or her husband resided in Australia for at least twelve months immediately prior to the birth of the child, or if she is likely to remain in Australia permanently. Payment may be made in respect of the birth of a still-born child, or a child who lives for less than twelve hours, if at least five and a half months had elapsed from the date of conception.

Rates of allowance. The allowance is \$30 if the mother has no other children under sixteen, \$32 if she has one or two other children under sixteen, and \$35 if she has three or more other children under sixteen. In the case of multiple births the allowance is increased by \$10 for each additional child born. An advance payment of \$20 may be made four weeks before the expected date of birth. The balance is payable immediately after the birth.

MATERNITY ALLOWANCES: CLAIMS PAID AT EACH RATE 1974-75 (Number)

| | | | | | | Multipl | e births | | | | | | |
|--------------------|--------|-----|----------|---------------|--------|---------|----------|-------|----------|------|------|-------|----------------|
| | | | Single b | Single births | | | Twins | | Triplets | | | Other | Total |
| | | | \$30 | \$32 | \$35 | \$40 | \$42 | \$45 | \$50 | \$52 | \$55 | \$62 | claims paid |
| New South Wales | | | 33,514 | 41,677 | 7.506 | 342 | 457 | 102 | 4 | 9 | | | 83,611 |
| Victoria | | | 24,298 | 32,260 | 5.784 | 221 | 318 | 67 | 4 | 3 | | | 62,955 |
| Oueensland . | | | 14,668 | 18,142 | 4.398 | 102 | 191 | 55 | 1 | 4 | 1 | | 37,562 |
| South Australia . | | | 8,433 | 10,012 | 1.414 | 59 | 104 | 17 | Ī | 1 | | | 20,041 |
| Western Australia | | | 8,243 | 10,579 | 1.868 | 77 | 106 | 28 | 2 | 2 | | 1 | 20,906 |
| Tasmania | | | 2,839 | 3,611 | 699 | 23 | 44 | 9 | | | | | 7,225 |
| Northen Territory | | | 796 | 967 | 390 | 5 | 7 | 4 | | | | | 2,169 |
| Australian Capital | Territ | ory | 1,574 | 2,109 | 324 | 17 | 17 | 2 | | | | | 4,043 |
| Abroad | | ٠. | 15 | 8 | 3 | | | • • • | | | | | 26 |
| Total . | | | 94,380 | 119,365 | 22,386 | 846 | 1,244 | 284 | 12 | 19 | 1 | 1 | 238.538 |

MATERNITY ALLOWANCES: CLAIMS PAID, AUSTRALIA

| | | d | Claims pai | | | | | | | |
|----------------|---------|--------------------|------------------|---|--|---------|--|--|--|--|
| Amount paid | Total | Multiple births | Single births | | | Year | | | | |
| \$'000 | | | | - | | | | | | |
| 8,554 | 270,052 | 2,817 | 267,235 | | | 1970-71 | | | | |
| 8,617 | 272,006 | 2,858 | 269,148 | | | 1971-72 | | | | |
| 7,970 | 251,884 | 2.544 | 249,340 | | | 1972-73 | | | | |
| 7,782 | 245,902 | 2,527 | 243,375 | | | 1973-74 | | | | |
| 7,506 | 238,538 | 2,407 | 236,131 | | | 1974-75 | | | | |

Child and student endowment

A person who is resident in Australia and has the custody, care, and control, of one or more children under the age of sixteen years or of a full-time student child sixteen or more but under twenty-one years, or an approved institution of which children are inmates, is qualified to recieve an endowment in respect of each such child. Full-time student children are those receiving full-time education at a school, college or university and who are not in employment or engaged in work on their own account. There are provisions to meet cases of families divided because of divorce, separation, unemployment or death of a parent. There is no means test.

Twelve months residence in Australia is required if the claimant and the child were not born here, but this requirement is waived if the Department of Social Security is satisfied that they are likely to remain in Australia permanently. Where the child's father is not a British subject, endowment is payable if the child was born in Australia, if the mother is a British subject, or if the Department is satisfied that the child is likely to remain permanently in Australia. Under certain conditions, endowment may be paid to Australians who are temporarily absent overseas.

Rates of endowment. Since 12 October 1971 the weekly rates have been: children under sixteen years—50 cents for the first or only child; \$1.00 for the second; \$2.00 for the third; and then increases of 25 cents for each subsequent child, making \$2.25 for the fourth, \$2.50 for the fifth and so on.

For each eligible student child sixteen or more but under twenty-one years the rate is \$1.50 a week. The rate payable for each child under sixteen years in an approved institution is \$2.00 a week. For changes in the rates introduced in 1976 see Appendix.

Number of claims and endowed children—children under sixteen years. The number of families receiving child endowment at 30 June 1975 in respect of children under sixteen years was 1,915,818, an increase of 26,748 or 1.42 per cent during the year.

CHILD ENDOWMENT: CLAIMS AND ENDOWED CHILDREN UNDER 16 YEARS 30 JUNE 1975

| | Family gr | oups | | Approved institutions | | |
|--------------------------------|--------------------|---------------------------|--------------------------------|-----------------------|------------------------------|--|
| | | Endowed ci under 16 ye | | Endowe chil | | |
| State, Territory, etc. | Claims in force | Number | Average number per claim | Number (a) | inmates under 16 years | endowed children under 16 years |
| New South Wales | 668,471 | 1,369,618 | 2.05 | 149 | 5,541 | 1,375,159 |
| Victoria | 525,211 | 1,100,830 | 2.10 | 128 | 4,651 | 1,105,481 |
| Oueensland | 280,174 | 608,871 | 2.17 | 47 | 1,829 | 610,700 |
| South Australia | 178,978 | 364,047 | 2.03 | 68 | 1,045 | 365,092 |
| Western Australia | 162,198 | 345,272 | 2.13 | 72 | 4,430 | 349,702 |
| Tasmania | 58,970 | 126,461 | 2.14 | 23 | 399 | 126,860 |
| Northern Territory | 12,021 | 28,295 | 2.35 | 24 | 286 | 28,581 |
| Australian Capital Territory . | 29,678 | 62,912 | 2.12 | 2 | 13 | 62,925 |
| Abroad | 117 | 241 | 2.06 | | | 241 |
| Total | 1,915,818 | 4,006,547 | 2.09 | 513 | 18,194 | 4,024,741 |

⁽a) All institutions approved for receipt of endowment.

The following table shows, as at 30 June 1975, the number of claims in force and the number of endowed children under sixteen years in family groups, classified according to the number of endowed children in the family group. The families included in the table are not necessarily made up entirely of the children of one marriage, but may include step-children, foster children, adopted children, and any other children in the custody, care and control of the claimant.

CHILD ENDOWMENT: ENDOWED CHILDREN UNDER 16 YEARS IN FAMILY GROUPS TOTAL, 30 JUNE 1975

| Endowe childre unde 16 yeur | Claims in force | Number of endowed children under 16 years in family group | | Endowed children under 16 years | Claims in force | 1 | hildren ears | ber of wed ch r 16 y mily g | endo unde | | |
|--------------------------------------|--------------------|--|--|--|--------------------|-----------|-----------------|--------------------------------------|--------------|--|---|
| 5,25 | 584 | | | | 9. | 658,786 | 658,786 | | | | 1 |
| 1,94 | 194 | | | | 10 . | 1,420,480 | 710,240 | | | | 2 |
| 70 | 64 | | | | 11 . | 1,062,030 | 354,010 | | | | 3 |
| 28 | 24 | | | | 12 . | 525,588 | 131,397 | | | | 4 |
| 7 | 6 | | | | 13 . | 200,455 | 40,091 | | | | 5 |
| 1 | 1 | | | | 14 . | 83,004 | 13,834 | | | | 6 |
| 5 | 3 | | | поте | 15 or n | 33,600 | 4,800 | | | | 7 |
| 4,006,54 | 1,915,818 | | | | Total | 14.272 | 1,784 | | | | 8 |

CHILD ENDOWMENT: CLAIMS AND ENDOWED STUDENT CHILDREN 30 JUNE 1975

| | Family gro | oups | | 4 | | * |
|--------------------------------|--------------------|-----------------------|---------|-----------------------|--|---|
| | | Endowed children | student | Approved institutions | | |
| State, Territory, etc. | Claims in force | Average Claims number | | Number(a) | Endowed student child inmates | Total endowed student children |
| N C d. 337.1 | 20.464 | 00.461 | | , ,,, | 1.52 | 00 (10 |
| New South Wales | 79,464 | 88,461 | 1.11 | 22 | 157 | 88,618 |
| Victoria | 75,296 | 85,581 | 1.14 | | 104 | 85,685 |
| Queensland | 25,470 | 28,417 | 1.12 | 9 | . 124 | 28,541 |
| South Australia | 22,823 | 25,625 | 1.12 | 18 | 150 | 25,775 |
| Western Australia | 16,767 | 18,797 | 1.12 | 21 | 127 | 18,924 |
| Tasmania | 5,335 | 5,890 | 1.10 | 4 | 4 | 5,894 |
| Northern Territory | 581 | 645 | 1.11 | 9 | 7 | 652 |
| Australian Capital Territory . | 4,019 | 4,667 | 1.16 | | | 4,667 |
| Abroad | 14 | 19 | 1.36 | | •• | . 19 |
| Total | 229,769 | 258,102 | 1.12 | 115 | 673 | 258,775 |

⁽a) Included with approved institutions in first table on page 429.

CHILD ENDOWMENT: ENDOWED STUDENT CHILDREN IN FAMILY GROUPS TOTAL, 30 JUNE 1975

| Endowed student children | Claims in force | Number of endowed student children in family group | | Endowed student children | Claims in force | | tudent | her of wed si ren in ly gro | endo child | |
|--------------------------------|--------------------|---|--|--------------------------------|--------------------|---------|--------|--------------------------------------|---------------|---|
| | 87 | | | 4 | 203,223 | 203,223 | | | | 1 |
| 16 | 3 | | | 5 or more | 49,706 | 24,853 | | | | 2 |
| 258,102 | 229,769 | | | Total | 4,809 | 1,603 | | | | 3 |

CHILD ENDOWMENT: CHILDREN UNDER 16 YEARS LIABILITY AND EXPENDITURE, 1974-75 (\$'000)

| | | (\$ 00 | 0) | | | | |
|------------------------------|------------|------------------|----------------------------------|---------|--|--|--|
| | | Annual ! | Annual liability at 30 June 1975 | | | | |
| State, Territory, etc. | | Family groups | Approved institutions | Total | endowees and institutions during year(a) | | |
| New South Wales . | | 69,772 | 576 | 70,348 | 68,638 | | |
| Victoria | | 57,044 | 484 | 57,528 | 56,129 | | |
| Queensland | | 32,849 | 190 | 33,039 | 32,180 | | |
| South Australia | | 18,225 | 109 | 18,334 | . 18,285 | | |
| Western Australia . | | 17,999 | 461 | 18,460 | 17,625 | | |
| Tasmania | | 6,696 | 41 | 6,737 | 6,610 | | |
| Northern Territory . | | 1,654 | 30 | 1,684 | 1,663 | | |
| Australian Capital Territory | <i>'</i> . | 3,236 | 1 | 3,237 | 3,052 | | |
| Abroad | • | 12 | • • | 12 | (b)48 | | |
| Total | | 207,488 | 1,892 | 209,380 | 204,230 | | |

⁽a) See footnote (b) to summary table below, children; separate figures are not available.

⁽b) Includes expenditure for endowed student

CHILD ENDOWMENT: STUDENT CHILDREN, LIABILITY, AND EXPENDITURE, 1974-75

(S'000)

| | Annual | Annual liability at 30 June 1975 | | | | | | |
|------------------------------|---------------|----------------------------------|--------|--|--|--|--|--|
| State, Territory, etc. | Family groups | Approved institutions | Total | payments to enaowees and institutions during year 7,345 6,756 2,221 1,953 1,460 489 37 | | | | |
| New South Wales | 6,900 | 12 | 6,912 | 7,345 | | | | |
| Victoria | . 6,675 | 8 | 6,683 | 6,756 | | | | |
| Queensland | 2,217 | 10 | 2,227 | 2,221 | | | | |
| South Australia | . 1,999 | 12 | 2,011 | 1,953 | | | | |
| Western Australia . | 1.466 | 10 | 1,476 | 1,460 | | | | |
| Tasmania | . 459 | | 459 | 489 | | | | |
| Northern Territory . | . 50 | 1 | 51 | 37 | | | | |
| Australian Capital Territory | . 354 | | 364 | 360 | | | | |
| Abroad | . 1 | • • | 1 | (a) | | | | |
| Total | 20,132 | 52 | 20,184 | 20,620 | | | | |

⁽a) Included in preceding table showing expenditure for endowed children under sixteen years; separate figures are not available.

CHILD ENDOWMENT: SUMMARY, AUSTRALIA

| | | At end of | year | | | | | |
|---------|------|---|----------------------------|-----------------------|------------------------------|---|---|--|
| | | Family gro | oup claims | | | | | |
| Year | | For children under 16 years(a) | For student children(a) | Approved institutions | Total endowed children | Annual liability for endowment (b) | Total payments during year (b) | |
| | | | | | | \$'000 | \$'000 | |
| 1970-71 | | 1,797,628 | 196,999 | 469 | 4,155,930 | 207,499 | 198,467 | |
| 1971-72 | | 1,843,478 | 209,466 | 485 | 4,234,500 | 234,972 | 216,610 | |
| 1972-73 | | 1,870,638 | 202,768 | 505 | 4,238,882 | 232,207 | (c)253,890 | |
| 1973-74 | | 1,189,070 | 216,490 | 511 | 4,260,739 | 231,093 | 225,392 | |
| 1974–75 | | 1,915,818 | 229,769 | 513 | 4,283,516 | 229,564 | 224,850 | |

⁽a) Claims by families with children under sixteen and student children are shown in both columns. Information on the number of families having such dual claims is not available. (b) A number of endowments are paid every twelve weeks. During two years out of every three there are four such payments but every third year there are five. Figures for annual liability therefore, reflect trends in expenditure on child endowment more accurately than do figures for payments. (c) Expenditure for this year includes five twelve-weekly payments for endowed children under 16 years.

Double orphan's pension

This pension is payable to the guardian of a child both of whose parents or adoptive parents are dead, or one of whom is dead and the other missing. It is also payable in cases where one parent is dead and the other is a long-term inmate of a prison or mental hospital. Payment is made for orphans who are under 16 years or who are full-time students under 21. There is no means test. The pension is payable at the rate of \$10 a week for each eligible child. A double orphan's pension is not payable if the child attracts a war orphan's pension under the Repatriation Act.

Handicapped child's allowance

Parents or guardians of a child under 16 years who is severely handicapped mentally and/or physically, is living in the family home, and needs constant care and attention, are entitled to a handicapped child's allowance. The allowance is not subject to any means test. The rate of the allowance is \$10 a week. A residence qualification similar to that for child endowment applies to the allowance.

Unemployment and sickness benefits and associated payments

Unemployment and sickness benefits are paid to men over sixteen and under sixty-five years of age, and women over sixteen and under sixty years of age, who are unemployed or who are temporarily incapacitated for work and thereby suffer loss of income. They must have been living in Australia

during the preceding twelve months or be likely to remain permanently in Australia. Both benefits are subject to an income test. A person cannot receive both benefits simultaneously, nor can a person receive either benefit at the same time as an invalid, widow's or repatriation service pension.

For unemployment benefit purposes, a person must establish that he is unemployed, that his unemployment is not due to his being a direct participant in a strike, that he is capable and willing to undertake suitable work, and that he has taken reasonable steps to obtain such work. Registration for employment with the District Employment Office of the Commonwealth Employment Service is necessary. For sickness benefit purposes, a person must establish that he is temporarily incapacitated for work because of sickness or accident and that he has thereby suffered a loss of salary, wages or other income. A married woman is not eligible to receive a sickness benefit if it is reasonably possible for her husband to maintain her. Where her husband is able to maintain her only partially, a benefit may be paid at such rate as is considered reasonable in the circumstances.

Rates of Benefit. The maximum weekly rates of unemployment and sickness benefit payable, and the permissible income in respect of benefit periods which commenced after the introduction of increased benefits in May 1976, are as follows:—

| | Maximum | Permissible |
|--|---------|-------------|
| | weekly | weekly |
| | rate | income |
| | \$ | \$ |
| Married man (includes additional benefit for wife) | 68.50 | 6.00 |
| Single person aged 21 years or more | 41.25 | 6.00 |
| Single person aged 18 to 20 years | 41.25 | 3.00 |
| Single person aged 16 or 17 years | 36.00 | 3.00 |
| A person aged under 21 years who does not have a | | |
| parent living in Australia | 36.00 | 6.00 |

These amounts should be increased by \$7.50 for each child under 16 years, or a full-time student in the care of the beneficiary.

After the benefit has been paid for six consecutive weeks a beneficiary who is paying rent, or is paying for lodgings, may be entitled to supplementary allowance of up to \$5.00 a week. The amount of any such allowance cannot exceed the amount of rent paid.

The weekly rate of benefit is reduced by the amount by which a beneficiary's other income exceeds the amount of permissible income. For unemployment benefit purposes the income of the spouse is also taken into account unless the claimant and his spouse are permanently separated. The income of the spouse of a sickness beneficiary affects only the assessment of additional benefit to which the beneficiary may be entitled for the spouse. For sickness benefit purposes the income from an approved friendly society, or other similar approved body, in respect of the incapacity for which sickness benefit is payable is disregarded. 'Income' does not include child endowment or other payments for children, health benefits and payments from Medibank or registered benefit organisations, or an amount paid in reinbursment of medical, dental or similar expenses. The supplementary allowance is reduced by the amount by which a beneficiary's other income exceeds \$1.00 a week in the case of a single person and by half of the excess of the beneficiary's income over \$2.00 a week in the case of a married person.

The amount of compensation, damages or similar payment, or war pension, if paid in respect of the same incapacity as that for which sickness benefit is claimed, is deducted from the sickness benefit if paid in respect of the same period. If not paid in respect of the same incapacity, compensation in respect of the same period is regarded as income and war pension is ignored.

There is a waiting period of seven days during which unemployment or sickness benefit is not usually payable, but this waiting period is not required to be served more than once in any period of thirteen weeks.

Special benefit

A special benefit may be granted to a person not qualified for unemployment or sickness benefit who is not receiving an age, invalid or widow's pension, a service pension or a tuberculosis allowance and who, because of age, physical or mental disability or domestic circumstances, or for any other reason, is unable to earn a sufficient livelihood for himself and his dependants. Recipients of special benefits include, among others, persons caring for invalid parents, and persons ineligible for a pension because of lack of residence qualifications.

Special benefits are also paid to immigrants who are in Commonwealth Government centres or hostels awaiting their first placement in employment in Australia. During this time they receive a short instruction in English and in Australian conditions to facilitate their assimilation into the community and employment.

No means test or residence requirement is laid down but there is an overriding requirement that a person must be suffering hardship to be granted a special benefit.

The maximum rate of special benefit is the same as for unemployment benefit.

UNEMPLOYMENT, SICKNESS, AND SPECIAL BENEFITS 1974-75

| Number admitted to benefit during year— Unemployment— Males . 173,532 Females . 66,390 Persons . 239,922 Sickness— Males . 39,022 Females . 11,086 Persons . 50,108 Special— Ordinary— Males . 1,242 Females . 5,159 Persons . 6,401 Immigrants— Persons . 1,622 Total— Males(a) . 213,796 Females(a) . 82,635 Persons on benefit at end of year— Unemployment— Males . 39,090 Females . 18,315 Persons . 57,405 Sickness— Males . 39,090 Females . 18,315 Persons . 57,405 Sickness— Males . 7,384 Females . 2,055 Persons . 9,439 Special— Ordinary— Males . 5,999 Immigrants— Persons . 1,989 Immigrants— Persons . 1,989 Immigrants— Persons . 1,830 Females(a) . 47,003 Females(a) . 47,003 Females(a) . 21,830 | 121,980 53,616 175,596 24,788 6,781 31,569 789 2,681 3,470 147,557 63,078 210,635 | 53,616 33,481 175,596 127,923 24,788 18,33 6,781 4,253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 42.794 19,150 61,944 7,429 1,882 9,311 151 974 1,125 161 50,374 22,006 72,541 | 48,521 20,764 69,285 9,688 2,316 12,004 318 1,273 1,591 58,527 24,353 82,880 | 15,106 6,982 22,088 3,468 676 4,144 236 564 800 18,810 8,222 27,032 | 1,362 340 1,702 516 73 589 13 589 1,891 471 2,362 | 1,851 991 2,842 793 271 1,064 5 83 88 | 499.588 201.714 701,302 104,039 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
|--|--|--|---|---|--|---|---|---|
| Unemployment— Males | 53,616 175,596 24,788 6,781 31,569 789 2,681 3,470 | 53,616 33,481 175,596 127,923 24,788 18,33 6,781 4,253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 19,150 61,944 7,429 1,882 9,311 151 974 1,125 161 50,374 22,006 | 20,764 69,285 9,688 2,316 12,004 318 1,273 1,591 58,527 24,353 | 6,982 22,088 3,468 676 4,144 236 564 800 | 340 1,702 516 73 589 13 58 71 | 7991 2,842 793 271 1,064 5 83 88 2,649 1,345 | 201,714 701,302 104,039 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
| Males | 53,616 175,596 24,788 6,781 31,569 789 2,681 3,470 | 53,616 33,481 175,596 127,923 24,788 18,33 6,781 4,253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 19,150 61,944 7,429 1,882 9,311 151 974 1,125 161 50,374 22,006 | 20,764 69,285 9,688 2,316 12,004 318 1,273 1,591 58,527 24,353 | 6,982 22,088 3,468 676 4,144 236 564 800 | 340 1,702 516 73 589 13 58 71 | 7991 2,842 793 271 1,064 5 83 88 2,649 1,345 | 201,714 701,302 104,039 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
| Females 66,390 Persons 239,922 Sickness— Males 39,022 Females 11,086 Persons 50,108 Special— Ordinary— Males 5,159 Persons 6,401 Immigrants— Persons 1,622 Total— Males(a) 213,796 Females(a) 82,635 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 18,315 Persons 9,439 Special— Ordinary— Males 7,384 Females 9,439 Special— Ordinary— Males 7,384 Females 9,439 Special— Ordinary— Males 529 Females 1,466 Persons 1,989 Immigrants— Persons 128 Immigrants— Persons 1,989 Immigrants— Persons 1,988 | 53,616 175,596 24,788 6,781 31,569 789 2,681 3,470 | 53,616 33,481 175,596 127,923 24,788 18,33 6,781 4,253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 19,150 61,944 7,429 1,882 9,311 151 974 1,125 161 50,374 22,006 | 20,764 69,285 9,688 2,316 12,004 318 1,273 1,591 58,527 24,353 | 6,982 22,088 3,468 676 4,144 236 564 800 | 340 1,702 516 73 589 13 58 71 | 7991 2,842 793 271 1,064 5 83 88 2,649 1,345 | 201,714 701,302 104,039 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
| Persons 239,922 Sickness— Males 39,022 Females 11,086 Persons 50,108 Special— Ordinary— Males 5,159 Persons 6,401 Immigrants— Persons 1,622 Total— Males(a) 213,796 Females(a) 82,635 Persons(b) 298,053 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 5,9439 Special— Ordinary— Males 5,9439 Immigrants— Persons 1,989 Immigrants— Persons 1,989 Immigrants— Persons 1234— Males(a) 47,003 Females(a) 47,003 Females(a) 47,003 Females(a) 47,003 Females(a) 47,003 Females(a) 47,003 Females(a) 47,003 | 175,596 24,788 6,781 31,569 789 2,681 3,470 | 175,596 127,923 24,788 18,335 6,781 4,253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 61,944 7,429 1,882 9,311 151 974 1,125 161 50,374 22,006 | 9,688 2,316 12,004 318 1,273 1,591 58,527 24,353 | 22,088 3,468 676 4,144 236 564 800 18,810 8,222 | 1,702 516 73 589 13 58 71 1,891 471 | 2,842 793 271 1,064 5 83 88 2,649 1,345 | 701,302 104,039 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
| Sickness 39,022 | 24.788 6,781 31,569 789 2,681 3,470 | 24.788 18.335 6,781 4.253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 7,429 1,882 9,311 151 974 1,125 161 50,374 22,006 | 9,688 2,316 12,004 318 1,273 1,591 58,527 24,353 | 3,468 676 4,144 236 564 800 | 516 73 589 13 58 71 | 793 271 1,064 5 83 88 2,649 1,345 | 104,039 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
| Males 39,022 Females 11,086 Special— 50,108 Ordinary— Males 1,242 Females 5,159 Persons 6,401 Immigrants— 1,622 Persons 1,622 Total— Males(a) 213,796 Females(a) 82,635 Persons(b) 298,053 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,460 Persons 1,989 Immigrants— 1,989 Immigrants— 1,989 Immigrants— 1,980 Persons 13 Total— Males(a) 47,003 Males(a) 47,003 Females(a) 21,830 | 6,781 31,569 789 2,681 3,470 147,557 63,078 | 6,781 4,253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 1,882 9,311 151 974 1,125 161 50,374 22,006 | 2,316 12,004 318 1,273 1,591 58,527 24,353 | 236 564 800 18,810 8.222 | 73 589 13 58 71 1,891 471 | 271 1,064 5 83 88 2,649 1,345 | 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
| Females 11,086 Persons 50,108 Special— Ordinary— Males 1,242 Females 5,159 Persons 6,401 Immigrants— Persons 1,622 Total— Males(a) 213,796 Females(a) 82,635 Persons(b) 298,053 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,460 Persons 1,989 Immigrants— Person 123 Immigrants— Person 1,989 Immigrants— Person 1,9 | 6,781 31,569 789 2,681 3,470 147,557 63,078 | 6,781 4,253 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 1,882 9,311 151 974 1,125 161 50,374 22,006 | 2,316 12,004 318 1,273 1,591 58,527 24,353 | 236 564 800 18,810 8.222 | 73 589 13 58 71 1,891 471 | 271 1,064 5 83 88 2,649 1,345 | 27,338 131,377 3,905 13,826 17,731 1,902 607,532 242,878 |
| Persons 50,108 | 31,569 789 2,681 3,470 147,557 63,078 | 31,569 22,588 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 9,311 151 974 1,125 161 50,374 22,006 | 318 1,273 1,591 58,527 24,353 | 4,144 236 564 800 18,810 8,222 | 589 13 58 71 1,891 471 | 1,064 5 83 88 2,649 1,345 | 3,905 13,826 17,731 1,902 607,532 242,878 |
| Special—Ordinary—Males 1,242 | 789 2,681 3,470 147,557 63,078 | 789 1,151 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 151 974 1,125 161 50,374 22,006 | 318 1,273 1,591 58,527 24,353 | 236 564 800 18,810 8,222 | 13 58 71 1,891 471 | 5 83 88 2,649 1,345 | 3,905 13,826 17,731 1,902 607,532 242,878 |
| Ordinary— Males | 2,681 3,470 147,557 63,078 | 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 974 1,125 161 50,374 22,006 | 1,273 1,591 58,527 24,353 | 564 800 18,810 8,222 | 58 71 1,891 471 | 2,649 1,345 | 13,826 17,731 1,902 607,532 242,878 |
| Males 1,242 Females 5,159 Persons 6,401 Immigrants— 1,622 Persons 1,622 Total— Males(a) 213,796 Females(a) 82,635 Persons (b) 298,053 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,460 Persons 1,989 Immigrants— Persons Total— Males(a) 47,003 Females(a) 47,003 Females(a) 21,830 | 2,681 3,470 147,557 63,078 | 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 974 1,125 161 50,374 22,006 | 1,273 1,591 58,527 24,353 | 564 800 18,810 8,222 | 58 71 1,891 471 | 2,649 1,345 | 13,826 17,731 1,902 607,532 242,878 |
| Females 5,159 Persons 6,401 Immigrants— Persons 1,622 Total— Males(a) 213,796 Females(a) 82,635 Persons(b) 298,053 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,460 Persons 1,989 Immigrants— Persons 11,989 Immigrants— Persons 13 Total— Males(a) 47,003 Females(a) 47,003 | 2,681 3,470 147,557 63,078 | 2,681 3,034 3,470 4,185 119 147,557 113,928 63,078 40,768 | 974 1,125 161 50,374 22,006 | 1,273 1,591 58,527 24,353 | 564 800 18,810 8,222 | 58 71 1,891 471 | 2,649 1,345 | 13,826 17,731 1,902 607,532 242,878 |
| Persons 6,401 Immigrants— 1,622 Persons 1,622 Total— 32,635 Males(a) 213,796 Females(a) 82,635 Persons(b) 298,953 Persons on benefit at end of year— 40,003 Unemployment— 40,003 Males 39,090 Females 18,315 Persons 57,405 Sickness— 40,055 Males 7,384 Females 2,055 Persons 9,439 Special— 00dinary— Males 529 Females 1,460 Persons 1,989 Immigrants— 2 Persons 13 Total— 47,003 Males(a) 47,003 Females(a) 21,830 | 3,470 147,557 63,078 | 3,470 4,185 119 147,557 113,928 63,078 40,768 | 1,125 161 50,374 22,006 | 58,527 24,353 | 18,810 8,222 | 71 1,891 471 | 2,649 1,345 | 17,731 1,902 607,532 242,878 |
| Immigrants— Persons 1,622 Total— Males(a) 213,796 Persons(b) 298,053 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,460 Persons 1,981 Immigrants— Persons 1,989 Immigrants— Persons 1,989 Immigrants— Persons 1,981 Total— Males(a) 47,003 Females(a) 47,003 Females(a) 21,830 Persons(a) Persons(a | 147,557 63.078 | 119 147,557 113,928 63,078 40,768 | 161 50,374 22,006 | 58,527 24,353 | 18,810 8,222 | 1,891 471 | 2,649 1,345 | 1,902 607,532 242,878 |
| Persons 1,622 Total— Males(a) 213,796 Females(a) 82,635 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,460 Persons 1,989 Immigrants— Persons 12 Total— Males(a) 47,003 Females(a) 47,003 Females(a) 21,830 | 147,557 63.078 | 147,557 113,928 63,078 40,768 | 50,374 22,006 | 58,527 24,353 | 18,810 8,222 | 1,891 471 | 2,649 1,345 | 607,532 242,878 |
| Total— Males(a) | 147,557 63.078 | 147,557 113,928 63,078 40,768 | 50,374 22,006 | 58,527 24,353 | 18,810 8,222 | 1,891 471 | 2,649 1,345 | 607,532 242,878 |
| Males(a) 213,796 Females(a) 82,635 Persons(b) 298,053 | 63.078 | 63.078 40,768 | 22,006 | 24,353 | 18,810 8,222 | 1,891 471 | 1,345 | 242,878 |
| Females(a) 82,635 Persons(b) 298,053 Persons on benefit at end of year— Unemployment— Males 39,090 Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,466 Persons 1,989 Immigrants— Persons 123 Total— Males(a) 47,003 Females(a) 21,830 | 63.078 | 63.078 40,768 | 22,006 | 24,353 | 8,222 | 471 | 1,345 | 242,878 |
| Persons(b) . 298,053 Persons on benefit at end of year— Unemployment— | | | | | | | | |
| Persons on benefit at end of year— Unemployment— Males . 39,090 Females . 18,315 Persons . 57,405 Sickness— Males . 7,384 Females . 2,055 Persons . 9,439 Special— Ordinary— Males . 529 Females . 1,460 Persons . 1,989 Immigrants— Persons . 12 Total— Males(a) . 47,003 Females(a) . 21,830 | 210,635 | 210,635 154,815 | 72,541 | 82,880 | 27,032 | 2,362 | 3,994 | |
| year— Unemployment— | | | | | | | | 852,312 |
| Females 18,315 Persons 57,405 Sickness— Males 7,384 Females 2,055 Persons 9,439 Special— Ordinary— Males 529 Females 1,466 Persons 1,989 Immigrants— Persons 13 Total— Males(a) 47,003 Females(a) 21,830 | 31.033 | 31.033 18.805 | 9.313 | 6.802 | 2.717 | 136 | 128 | 108.024 |
| Persons 57,405 Sickness— 7,384 Females 2,055 Persons 9,439 Special— 07dinary— Males 529 Females 1,460 Persons 1,989 Immigrants— Persons Total— Males(a) 47,003 Females(a) 21,830 | 14,591 | | 4,915 | 4,209 | 1,722 | 29 | 66 | 52,724 |
| Sickness— 7,384 Males 7,384 Females 2,055 Persons 9,439 Special— 00 Ordinary— Males 529 Females 1,460 Persons 1,989 Immigrants— 1 Persons 13 Total— Males(a) 47,003 Females(a) 21,830 | 45,624 | | 14,228 | 11,011 | 4,439 | 165 | 194 | 160,748 |
| Males | 75,027 | 75,027 27,002 | 17,220 | 71,077 | 4,452 | 103 | 127 | 100,740 |
| Females . 2,055 Persons . 9,439 Special— Ordinary— Males . 529 Females . 1,460 Persons . 1,989 Immigrants— Person . 13 Total— Males(a) 47,003 Females(a) 21,830 | 6,279 | 6,279 2,766 | 1,562 | 1.531 | 574 | 45 | 208 | 20,349 |
| Persons 9,439 Special— Ordinary— Males 529 Females 1,460 Persons 1,989 Immigrants— Persons Persons 13 Total— Males(a) 47,003 Females(a) 21,830 | 1,618 | | 345 | 319 | 108 | 10 | 54 | 5,129 |
| Special | 7,897 | | 1.907 | 1.850 | 682 | 55 | 262 | 25,478 |
| Ordinary— | 1,071 | 7,057 5,500 | 1,,,,,, | 1,050 | 002 | 55 | 202 | 20,470 |
| Males 529 Females 1,460 Persons 1,989 Immigrants— 1 Persons 13 Total— Males(a) 47,003 Females(a) 21,830 | | | | | | | | |
| Females 1,460 Persons 1,989 Immigrants— Persons 13 Total— Males(a) 47,003 Females(a) 21,830 | 359 | 359 193 | 69 | 92 | 100 | 2 | 4 | 1,348 |
| Persons 1,989 Immigrants— Persons 13 Total— Males(a) 47,003 Females(a) 21,830 | | | 349 | 359 | 197 | 13 | 30 | 4,204 |
| Immigrants | 1,497 | | 418 | 451 | 297 | 15 | 34 | 5,552 |
| Persons | ., ., . | 1,457 | **** | 401 | | | 54 | 0.002 |
| Total— Males(a) 47,003 Females(a) 21,830 | | 28 | 8 | | | | | 49 |
| Males(a) 47,003 Females(a) 21,830 | • • • | 20 | U | • • | • • | • • • | • • • | 72 |
| Females(a) 21,830 | 37.671 | 37.671 21.764 | 10,944 | 8 425 | 3.391 | 183 | 340 | 129,721 |
| | 17.347 | | 5,609 | 4,887 | 2,027 | 52 | 150 | 62,057 |
| Persons(b) 68.846 | | | 16,561 | 13,312 | 5,418 | 235 | 490 | 191,827 |
| Benefits paid during year— | 55.018 | , | , | , | 2, | | | , |
| Unemployment . \$'000 93,760 | 55,018 | | 20,475 | 19,753 | 7,746 | 752 | 470 | 251,740 |
| Sickness \$'000 24.395 | 55,018 | 66,361 42,422 | 20,4/3 | | 1,692 | 188 | 498 | 62,833 |
| Special(b) . \$'000 4,281 | ŕ | | | | | | 50 | 10,992 |
| | 66,361 | 18,193 8,596 | 4,855 735 | 4,415 776 | 421 | 422 | | . , |
| Total benefits paid . \$'000 122,436 | 66,361 18,193 | 18,193 8,596 | 4,855 | 4,415 | | 422 | | |

⁽a) Excludes immigrants in Government centres or hostels awaiting their first placement in employment in Australia.
(b) Includes immigrants in the category described in footnote (a).

UNEMPLOYMENT, SICKNESS, AND SPECIAL BENEFITS: SUMMARY, AUSTRALIA

| Number admitted to benefit during year | | | | | Average nu persons on end of each | benefit at | | Amount paid in benefits | | | |
|---|---|---|---|---|--|---|---|---|---|--|--|
| Year | | | Unem- ployment | Sickness | Special (a) | Unem- ployment | Sickness | Special (a) | Unem- ployment | Sickness | Special (a) |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | : | : | 137,963 255,417 280,573 229,231 701,302 | 73,601 83,879 101,249 118,190 131,377 | 22,982 18,147 16,267 16,698 19,633 | 14,979 29,110 39,580 34,148 116,603 | 9,524 11,927 16,163 20,655 24,346 | 4,293 3,968 4,090 4,480 5,331 | \$'000 10,795 25,997 46,553 58,246 251,740 | \$'000 10,262 15,906 26,610 41,407 62,833 | \$'000 2,420 2,851 4,368 6,983 10,992 |

⁽a) Includes immigrants in Government centres or hostels awaiting their first placement in employment in Australia.

Appeals Tribunals

Appeals Tribunals were established in all States and in the Australian Capital Territory on 10 February 1975, and shortly afterwards in the Northern Territory. The purpose of the Tribunals is to provide an independent avenue of redress for people who feel aggreed by decisions of the Department of Social Security, which administers payments made under the Social Services Act. Each Tribunal consists of two independent members, usually a lawyer and a welfare worker, and a seconded officer from the Department of Social Security. The Tribunals operate as informally as possible. Appeals may be lodged by personal attendance, telephone, letter or on a special form.

The Tribunals do not have the power themselves to overturn decisions by the Department of Social Security but they make recommendations to the Department.

Reciprocal social services agreements with other countries

New Zealand. An agreement between the Governments of Australia and New Zealand for reciprocity in social services came into operation on 3 September 1943 and was amended from 1 July 1949. The reciprocal arrangements cover age and invalid pensions, widow's pensions, child endowment, and unemployment and sickness benefits, and apply to both permanent and temporary changes of residence. Residence in one country may be treated as residence in the other country in relation to entitlement to benefits in which a residential qualification applies. Persons from one country taking up a permanent residence in the other country become eligible for any of the specified benefits of the new country under the same conditions (with one or two exceptions) as apply to citizens of that country. Persons in receipt of any of the specified benefits in one country may continue to receive those benefits while temporarily absent in the other country.

United Kingdom. Under a reciprocal agreement on social services between the United Kingdom and Australia residence in one country may be treated as residence in the other country as the basis for entitlement to benefits in which a residential qualification applies. Australians going to the United Kingdom for permanent residence are treated in the United Kingdom as if they have been insured under the National Insurance Scheme while in Australia, so that they can qualify for various National Insurance benefits. There is also provision for the safeguard of social service rights for persons going from one country to the other for temporary residence.

Commonwealth Rehabilitation Service

The Commonwealth Rehabilitation Service assists people who are unable to work because of long-term disability or who have had to give up their employment because of sickness or injury. It aims to help disabled people to reach their maximum physical, mental and social usefulness and to prepare them for suitable employment. Towards this aim, it provides co-ordinated programs of treatment and training to meet the special needs of each disabled person. Responsibility for the delivery of these services rests with the eleven residential and day-attendance centres and the thirteen regional rehabilitation units which are currently operated by the service.

Rehabilitation may be provided free to people receiving, or eligible to receive, invalid or widow's pension, or unemployment, sickness or special benefit, to people receiving tuberculosis allowance, to people aged 14 or 15 years who, without treatment or training, would be likely to qualify for invalid pension at age 16, to national servicemen and members of the permanent forces who are disabled at time of discharge but are ineligible for rehabilitation assistance from the Department of Veteran's Affairs, and to people who became disabled while working for the Commonwealth Government and are covered by the Compensation (Commonwealth Employees) Act, 1971. People from these groups may be selected for rehabilitation if their disabilities are a substantial handicap for employment but can be overcome by treatment or training, and if there are reasonable prospects that they will be able to take up employment following rehabilitation. Disabled people who do not qualify for the free service may pay for rehabilitation themselves and provision is made for charges to be reduced in accordance with each person's capacity to pay. Private or Government organisations may also sponsor rehabilitees.

For people receiving free rehabilitation, payment of pension or benefit continues during treatment. When vocational training begins, pension or benefit is suspended and replaced by training allowance. This allowance is based on the adult male average award wage adjusted quarterly. Living-away-from-home allowance is paid where necessary. Fares and living expenses (including those of an attendant where required) in connection with treatment, training or attendance for an interview or for medical examination may also be paid. Necessary artificial replacements, surgical aids and appliances may be provided, free of charge, to a person receiving treatment and training or who needs them to assist him to engage in a suitable vocation after the discontinuance of his treatment and training or who needs them otherwise to assist in his rehabilitation.

Vocational training is given to the people at the rehabilitation centres by occupational therapists, vocational counsellors and qualified trade and commerce teachers who assess and train each person in the skills which make best use of ability and which are best adapted to the employment situation.

In addition to the services provided at each centre, technical schools, business colleges, universities, training on-the-job in commerce or industry and correspondence courses are all used for training purposes. Text books and equipment may be provided during treatment or training; alternatively these may be supplied after treatment or training is discontinued to enable a rehabilitee to engage in employment. If supplied after treatment or training is discontinued the rehabilitee must meet the cost, but payment can be made by instalments.

Throughout the process of rehabilitation, vocational rehabilitation counsellors maintain contact with the disabled person and provide guidance and encouragement where necessary. The Commonwealth Rehabilitation Service currently employs 70 such counsellors who play a significant role in the co-ordination of the non-medical aspects of rehabilitation.

Since its inception in 1948 the Rehabilitation Service had been able to assist some 44,000 severely handicapped people, including over 31,000 who were able to undertake—or return to—gainful employment.

Numbers dealt with by the service.

REHABILITATION SERVICE: AUSTRALIA, 1974-75

| | Accepted for treatment | Provided vocational | | Placed in employment | - | |
|---|------------------------------|---------------------|-----------|-------------------------|---------------------|-------------------------------|
| Category | and training | Com- menced | Completed | A)ter training | Without training | Expen- diture(a) \$'000 |
| Invalid pensioners | 374 | 151 | 86 | 75 | 102 | 1 |
| Unemployment, sickness and special | | | | | | |
| beneficiaries | 1,501 | 404 | 248 | 187 | 581 | |
| People whose rehabilitation is con- | | | | | | (|
| tinued under Sections 135P or provided under 135s of the Social | | | | | | ≻n.a. |
| Services Act(b) | 304 | 19 | 13 | 16 | 208 | i |
| People aged 14-15 years | 93 | 16 | 10 | 10 | 41 | l |
| Other | 12 | 4 | 3 | | 4, | ł |
| Total | 2,284 | 594 | 360 | 288 | 936 | 9,329 |

⁽a) Excludes capital expenditure by the Department of Construction on sites and buildings and administrative costs of the Rehabilitation Service and Central Administration. (b) Persons receiving invalid pensions, etc., when accepted for rehabilitation and who, on becoming ineligible for the pension, etc., are provided with rehabilitation on payment of the cost by themselves; or cases sponsored from the outset by themselves or an authority.

REHABILITATION SERVICE, 1974-75

| | Number a | ccepted for re | hahilitation | ı | Number p | | | | |
|-------------------|----------------------------|---|--------------|-------|----------------------------|---|---------|-------|---------------------|
| State | Invalid pension- ers | Unemploy- ment sickness and special benefici- aries | Other | Total | Invalid pension- ers | Unemploy- ment sickness and special benefici- aries | Other | Total | Expendi- ture(a) |
| | | | | | | | | | \$.000 |
| New South Wales | 111 | 237 | 113 | 461 | 45 | 112 | 55 | 212 | 2,581 |
| Victoria | 93 | 486 | 69 | 648 | 51 | 237 | 51 | 339 | 3,248 |
| Queensland | 71 | 269 | 100 | 440 | 35 | 146 | 105 | 286 | 1,234 |
| South Australia . | 46 | 225 | 48 | 319 | 24 | 107 | 40 | 171 | 982 |
| Western Australia | 34 | 179 | 72 | 285 | 13 | 91 | 26 2 | 130 | 914 |
| Tasmania | 19 | 105 | 7 | 131 | 9 | 75 | 2 | 86 | 370 |
| Total . | 374 | 1,501 | 409 | 2,284 | 177 | 768 | 279 | 1,224 | 9,329 |

⁽a) Excludes capital expenditure by the Department of Construction on sites and buildings and administrative costs of the Rehabilitation Service and Central Office.

Training scheme for widow pensioners

The Training Scheme for Widow Pensioners (T.S.W.P.) which helps widow pensioners and supporting mothers to acquire a vocational skill to enable them to undertake full or part-time employment was incorporated into the new National Employment and Training System (N.E.A.T.) which commenced on 1 October 1974.

Widow pensioners undergoing training with the T.S.W.P. were informed of the transfer to the N.E.A.T. system but where it appeared that a widow pensioner would be disadvantaged from transfer to N.E.A.T., arrangements were made to allow trainees to complete their training under T.S.W.P.

Of the 869 applications received during 1974–75, 716 were accepted. Seven hundred and nineteen widow pensioners and supporting mothers commenced training, 1164 completed training and 621 were placed in employment. Expenditure during the year was \$862,794.

Compassionate allowances

These allowances are paid by the Commonwealth Government on a discretionary basis to certain people who are unable to qualify for pensions or other benefits under provisions of the Social Services Act. Expenditure on compassionate allowances and payments of a similar nature during 1974-75 was \$96,911.

Commonwealth Government assistance to welfare organisations

The Aged or Disabled Persons Homes Act 1954 is designed to encourage the provision of homes in which aged persons may reside in conditions approaching normal domestic life.

To be eligible for assistance under the Act an organisation must be:

- (a) carried on otherwise than for the purposes of profit or gain to the individual members; and
- (b) a religious organisation, an organisation of which the principal objects or purposes are charitable or benevolent, an organisation of former members of the defence forces established in every State or a State branch of such an organisation, an organisation approved by the Governor-General for the purposes of the Act, or a local governing body.

An organisation conducted or controlled by, or by persons appointed by, the Australian or any State Government is not eligible for assistance under the Act.

The Director-General of the Department of Social Security may make a grant of money to an organisation as assistance towards meeting the cost of the construction or purchase of a home, including land, to be used permanently for the accommodation of aged persons. The grant is made on a basis of \$4 for each \$1 raised by the organisation but is limited to \$9,360 for a single unit of accommodation and \$10,920 for a double unit plus up to \$1,920 per unit for land. Money which the organisation received from a governmental body other than a local governing body does not attract subsidy.

Before a grant is made the Director-General must be satisfied that the sum of the money expended and the money at present available for expenditure by the organisation towards the capital cost of the home, together with the amount of the grant, will be not less than the capital cost of the home.

The following table gives information regarding grants approved during 1974-75. The amounts granted include new grants approved in 1974-75 together with adjustments made during the year in respect of grants originally approved in earlier years.

AGED OR DISABLED PERSONS HOMES: GRANTS AND AMOUNTS APPROVED AND BEDS PROVIDED, 1974-75

| | Grants | approve | d | Beds provided and type of accommodation | | | | | | | |
|--|--------|---------|--------------------|---|--------|---------|-------|--|--|--|--|
| State | Nu | mber | Amount (\$'000) | Self- contained | Hostel | Nursing | Total | | | | |
| New South Wales | | 68 | 10,028 | 679 | 59 | 423 | 1,161 | | | | |
| Victoria | | 45 | 7,743 | 456 | 173 | 117 | 746 | | | | |
| Queensland . | | 29 | 4,711 | 102 | 140 | 240 | 482 | | | | |
| South Australia . | | 34 | 5,632 | 312 | 120 | 118 | 550 | | | | |
| Western Australia | | 32 | 7,431 | 511 | 183 | 96 | 790 | | | | |
| Tasmania | | 19 | 1,525 | 157 | | -2 | 155 | | | | |
| Northern Territory Australian Capital | • | •• | · • • | •• | • • | • • | • • | | | | |
| Territory . | • | 1 | 227 | 26 | | •• | 26 | | | | |
| Total . | | 228 | 37,299 | 2,243 | 675 | 992 | 3,910 | | | | |

The following table gives information regarding grants approved for each of the past five years. The amounts granted in each year include new grants approved in that year together with adjustments made during the year in respect of grants originally approved in earlier years.

| AGED OR DISABLED PERSONS HOMES: GRANTS |
|---|
| AND AMOUNTS APPROVED, AND BEDS PROVIDED |
| AUSTRALIA |

| | | G | rants approv | Beds provided | |
|----------|--|---|--------------|--------------------|--------|
| Year | | _ | Number | Amount (\$'000) | Number |
| 1970–71. | | | 235 | 18,972 | 4,136 |
| 1971-72. | | | 241 | 23,792 | 4,760 |
| 1972-73. | | | 228 | 19,741 | 3,989 |
| 1973-74. | | | 171 | 18,999 | 3,417 |
| 1974-75. | | | 228 | 37,299 | 3,910 |

Since the commencement of the Act in December 1954, 3,138 grants amounting to \$224,801,401 have been approved, and accommodation has been provided for 56,134 aged and disabled persons.

The Aged or Disabled Persons Homes Act also provides a personal care subsidy of \$15 a week for persons of eighty years of age or over who receive approved personal care while living in hostel type accommodation provided by organisations eligible under the Aged or Disabled Persons Homes Act. The following table gives details of the premises approved, payments made and number of residents aged eighty years or over residing in the approved premises.

AGED OR DISABLED PERSONS HOMES ACT, PERSONAL CARE SUBSIDIES, 30 JUNE 1975

| | N.S.W. | Vic. | Qld | S1. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|--------|-------|-------|-------|-------|-------|-------|--------|--------|
| Approved premises . No | . 122 | 128 | 74 | 57 | 52 | 19 | 2 | | 456 |
| Residents qualifying . No Percentage of qualifying resi | | 3,245 | 1,807 | 1,586 | 1,267 | 367 | 8 | 21 | 11,156 |
| dents to total residents | | 64.86 | 51.80 | 65.00 | 67.00 | 73.40 | 40.00 | 40.00 | 58.07 |
| Subsidies paid, 1974-75 \$'000 | 1,907 | 2,283 | 1,191 | 1,101 | 883 | 266 | 7 | 14 | 7,651 |

The Aged Persons Hostels Act 1972 was introduced to stimulate the provision of more hostel-type accommodation for needy aged people.

Under the scheme the Commonwealth Government will meet the full cost of providing new hostel accommodation for two aged people for every one at present in an eligible unsubsidised home, or for one additional person for every two in a home previously subsidised on a dollar-for-dollar basis between 1954 and 1957. The organisation will not be required to make any contribution from its own resources unless the capital cost exceeds \$11,700 per person accommodated, or the bed capacity of the new home exceeds the number of 'free' beds to which the organisation is entitled. A further grant of up to \$250 for each person accommodated is available for furnishing the new hostel.

The new scheme is limited to a period of three years expiring on 27 September 1975 to encourage organisations to move quickly in taking advantage of the benefits the scheme offers.

This Act also has the effect of placing the old established organisations, which conducted homes prior to the introduction of the \$2 for \$1 scheme, in the same relative position as that achieved by newer organisations which have received a \$2 for \$1 subsidy, i.e. where two-thirds of their accommodation will have been provided by the Government.

Admission to these homes is based strictly on need with regard to the applicant's health, age, accommodation and financial situation. Since the commencement of the Act, 148 grants have been approved, totalling \$58,742,166.

| AGED | PERSONS | HOSTELS | ACT | GRANTS. | 1974-75 |
|------|---------|---------|-----|---------|---------|
|------|---------|---------|-----|---------|---------|

| | | | | Persons acco | mmodated | | Amount | | | |
|--|---|---|---------------|----------------|---------------|---------------|-------------------------------|--|-----------------------------|--|
| | | | No. of grants | Hostel beds | Staff beds | Total beds | Capital grants (\$'000) | Fur- nishings grants (\$'000) | Total grants (\$'000) | |
| New South Wales | | | 36 | 1,505 | 47 | 1,552 | 19,722 | 396 | 20,118 | |
| Victoria | | | 21 | 501 | 26 | 527 | 6,570 | 127 | 6,697 | |
| Oueensland . | | | 16 | 775 | 19 | 794 | 9,432 | 199 | 9,631 | |
| South Australia | | | 3 | 28 | 1 | 29 | 745 | 7 | 753 | |
| Western Australia | | | 4 | 93 | 9 | 102 | 1,315 | 26 | 1,341 | |
| Tasmania . | | | 1 | 23 | 1 | 24 | 335 | 6 | 341 | |
| Northern Territory Australian Capital | | • | •• | •• | •• | • | •• | •• | ••• | |
| Territory . | • | | | •• | • • | • • | • • | • • | • • | |
| Total . | | • | 81 | 2,925 | 103 | 3,028 | 38,120 | 760 | 38,880 | |

Introduction of the Handicapped Persons Assistance Act has greatly extended the scope of Commonwealth Government assistance available to non-profit organisations providing approved services for physically and mentally handicapped people. The Act came into operation in December 1974, and repealed both the Sheltered Employment (Assistance) Act 1967 and the Handicapped Children (Assistance) Act 1970. Under the new legislation approved organisations may apply for a wide range of subsidy towards the cost of providing capital projects, maintenance and equipment in respect of sheltered workshops, activity therapy centres, training centres, residential accommodation and holiday homes. Grants are also available in respect of rental paid for premises and the salary payments to approved staff employed in the provision of the prescribed services.

Grants on purchases of buildings, equipment etc. take the form of a \$4 subsidy for each \$1 raised by an eligible organisation from non-government sources. Rent is subsidised at a rate equal to 80 per cent of the approved rental paid subject to certain conditions. Salary costs may be subsidised to an amount equal to 100 per cent of salary paid to staff employed in new ventures but this is reduced to 50 per cent after the premises have been providing the service for 2 years or more.

As well as assisting organisations with establishment and running costs, the legislation also provides financial encouragement to sheltered workshop administrators to provide the type of training for the handicapped which will prepare them, where possible, for open employment. A *training fee* of \$500 is paid to organisations providing approved sheltered employment for each handicapped employee who, having received at least 6 months training in the workshop, graduates to open employment and remains there for at least 12 months.

Introduction of the Handicapped Persons Assistance Act in December 1974 also saw the transfer of the administration of Handicapped Childrens' Benefit from the Commonwealth Department of Health to the Department of Social Security. Where an organisation provides approved residential accommodation for mentally or physically handicapped children under 16 years it becomes entitled to receive a Commonwealth benefit of \$3.50 per day in respect of each resident child. This payment replaces that previously paid under Division 5A of Part V of the National Health Act 1953.

The following table gives number of premises and grants approved during 1974-75 financial year in each State.

HANDICAPPED PERSONS ASSISTANCE ACT(a): GRANTS APPROVED 1974-75

| | No. of | Capital grants(c) | | Other gr | ants(d) | Total al | | |
|---------------------|-------------------------|-------------------|-----------------|---------------|-----------------|---------------|-----------------|------------------|
| State | approved premises(b) | No. of grants | Amount approved | No. of grants | Amount approved | No. of grants | Amount approved | Expendi- ture |
| | | | s | | S | | S | s |
| New South Wales . | 233 | 711 | 2,910,769 | 572 | 1.093,749 | 1,283 | 4.004.518 | 4,851,351 |
| Victoria | 140 | 274 | 1,740,918 | 499 | 1,166,907 | 773 | 2,907,825 | 2,455,666 |
| Oueensland | 98 | 359 | 849,002 | 269 | 450,079 | 628 | 1.299.081 | 1,774,007 |
| South Australia . | 36 | 170 | 967.662 | 368 | 778,154 | 538 | 1,745,816 | 3,917,454 |
| Western Australia . | 34 | 213 | 238.826 | 193 | 469,746 | 406 | 708,572 | 1,199,400 |
| Tasmania | 18 | 62 | 623,066 | 90 | 173,440 | 152 | 796,506 | 735,932 |
| Total | 559 | 1,789 | 7,330,243 | 1,991 | 4,132,075 | 3,780 | 11,462,318 | 14,933,810 |

⁽a) Includes Sheltered Employment (Assistance) Act and Handicapped Children (Assistance) Act both repealed December 1974. (b) Total approved sheltered workshops activity therapy centres and training centres as at 30 June 1975. (c) Residential and non residential buildings, equipment and maintenance. (d) Training fee, salary subsidy and rent.

Grants approved under the Handicapped Children's (Assistance) Act and the Sheltered Employment (Assistance) Act in 1973-74 numbered 672 and 987 respectively amounting to \$5,544,320 and \$3,776,020.

HANDICAPPED CHILDREN'S BENEFIT

| Total amount of benefit paid | Number of days benefit paid | Estimated number of handicapped children accommodated (a) | Number of approved handicapped persons homes(a) | | | | State |
|------------------------------------|-----------------------------------|---|--|---|---|--------|-------------|
| \$ | | | | | | | |
| 345,573 | 95,390 | 417 | 18 | | | Wales | New South |
| 195,950 | 60,895 | 385 | 14 | | | | Victoria . |
| 96,888 | 29,724 | 150 | 17 | | | | Queensland |
| 128,501 | 38,069 | 176 | 8 | | | alia | South Austr |
| 74.946 | 23,559 | 160 | 8 | | | tralia | Western Au |
| 48,965 | 15,504 | 72 | 4 | • | | | Tasmania |
| 890,823 | 263,141 | 1,360 | 69 | | 5 | 1974-7 | Total |
| | | | | | | | Total— |
| 582,137 | 273,052 | 1,560 | 55 | | | | 1973-74 |
| 429,090 | 286,060 | 1,185 | 53 | | | | 1972-73 |
| 437,984 | 291,989 | 1,295 | 49 | | | | 1971-72 |
| 455,745 | 303,830 | 1,262 | 44 | | | | 1970-71 |

(a) As at 30 June.

The Homeless Persons Assistance Act was introduced in December 1974 to help non-profit organisations and local governing bodies which provide accommodation, food and social welfare services for homeless men and women.

The Act enables grants to be made to eligible organisations to meet the cost of purchasing, constructing, altering or renting buildings to be used as homeless persons' assistance centres, as well as to meet the cost of purchasing furniture, furnishings and equipment for such centres. Grants also meet half the salary of a social welfare worker employed at a centre, and help to meet the cost of providing food and accommodation for homeless persons, at an approved centre, or of meals provided at such centres for non-resident homeless persons.

The rate of the food and accommodation subsidy has been prescribed at 75 cents per day and the rate of meals subsidy as 25 cents per meal.

HOMELESS PERSONS ASSISTANCE ACT: GRANTS APPROVED, 1974-75

| State or Territory | | | Building projects | - | Furniture, equipment | Staff salaries | Food and accommo- dation | Meals for non- residents | Total |
|----------------------------------|---|---|----------------------|--------|-------------------------|-------------------|--------------------------------|--------------------------------|---------|
| New South Wales | | | · · · | | | | 84,423 | 8,184 | 92,607 |
| Victoria . | | | | 12,834 | 227 | 15,130 | 98,269 | 15,626 | 142,086 |
| Queensland . | | | | 6,320 | 2,042 | 228 | 31,460 | 6,551 | 46,601 |
| South Australia | | | | | | | 10,684 | 2,144 | 12,828 |
| Western Australia | | | 9,660 | 2,730 | 20,301 | | 11,550 | 2,418 | 46,659 |
| Tasmania . Australian Capital | • | • | ••• | 147 | ••• | | 2,679 | 624 | 3,450 |
| Territory . | | | | | | | | | |
| Northern Territory | | | | | • • | | | • • | |
| Australia | | | 9,660 | 22,031 | 22,570 | 15,358 | 239,065 | 35,547 | 344,231 |

The Delivered Meals Subsidy Act 1970 came into operation on 15 April 1970. Its purpose is to help organisations to establish, maintain, expand and improve 'meals-on-wheels' services. The subsidy is at the rate of \$2.50 for every ten meals provided by approved organisations. At 30 June 1975, 450 organisations had received a total subsidy of \$1,490,292 under the Act. Organisations eligible for grants under the Act are the same as those specified under the Aged or Disabled Persons Homes Act.

Commonwealth Government assistance to States

The States Grants (Deserted Wives) Act 1968 provides for assistance to be given by the Commonwealth Government to the States in respect of aid for needy mothers with children where there is no breadwinner and the mothers are not eligible for benefits under the Social Services Act. Broadly, these include deserted wives during the first six months of the husband's imprisonment, deserted de facto wives, de facto wives of prisoners, other separated wives and unmarried mothers.

The type of assistance attracting a grant may be provided in the form of cash, food or clothing. The grant is made by the Commonwealth Government to the States on the basis of half the cost of the approved assistance paid to the mother or half the amount of Class 'A' widow's pension or supporting mother's benefit, which would have been payable had she been qualified to receive it, whichever is the lesser.

All States are now receiving assistance under the scheme. In 1974-75 payments by the Commonwealth Government amounted to \$6,932,168.

The States Grants (Home Care) Act 1969 provides that the Commonwealth Government will share with participating States on a \$2 for \$1 basis, the cost of developing approved housekeeping or other domestic assistance provided wholly or mainly for aged persons in their homes. The Commonwealth Government will also share on a \$2 for \$1 basis with participating States up to a maximum of one-third of the capital cost of approved senior citizens' centres as well as meeting on a \$2 for \$1 basis with the States the cost of a salary of a welfare officer employed by such a centre. All States participate in this scheme. The Commonwealth Government share was increased to two-thirds of State expenditure from 1 July 1973.

PAYMENTS TO STATES FOR HOME CARE, SENIOR CITIZENS' CENTRES, AND WELFARE OFFICERS, 1974-75

| | | · <u> </u> | | |
|-------------------|-----------------------|--------------------------------|---------------------|-----------|
| State | Home Care Services | Senior Citizens' Centres | Welfare Officers | Total |
| New South Wales | 610,854 | 348,629 | 225,714 | 1,185,197 |
| Victoria | 441,404 | 149,420 | 51,553 | 642,377 |
| Queensland . | 1,244,406 | 153,347 | 11,371 | 1,409,124 |
| South Australia . | 563,303 | 363,104 | 15,777 | 942,184 |
| Western Australia | 115,981 | 28,206 | 14,865 | 159,052 |
| Tasmania | 123,806 | 154,050 | ٠. | 277,856 |
| Total . | 3,099,754 | 1,196,756 | 319,280 | 4,615,790 |

Northern Territory and Australian Capital Territory welfare services

Provision of social security and welfare services in these two Territories is the responsibility of the Commonwealth Government. In so far as welfare items can be identified for territorial accounting purposes, the following table shows the cost of providing these services.

AUSTRALIAN GOVERNMENT EXPENDITURE ON SOCIAL SECURITY AND WELFARE(a) NORTHERN TERRITORY AND AUSTRALIAN CAPITAL TERRITORY (\$'000)

| | _ | • | | | | - | |
|-----|---------------------------------------|---|---------|-------------|--------------------------------------|---|---|
| | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| | • | | 8,027 | 8,478 | 10,570 | 11,462 | 20,277 |
|) . | | | 455 | 348 | 623 | 220 | 500 |
| | | | 8,482 | 8,826 | 11,193 | 11,682 | 20,777 |
| | • | • | • 395 | 635 | 756 | 874 | 1,375 |
|) . | | • | •• | | | •• | 501 |
| • | | | 395 | 635 | 756 | 874 | 1,876 |
| | · · · · · · · · · · · · · · · · · · · | |) | 8,027 9) | 8,027 8,478 9) 455 348 8,482 8,826 | 8,027 8,478 10,570 o) 455 348 623 8,482 8,826 11,193 • 395 635 756 o) | 8,027 8,478 10,570 11,462 b) 455 348 623 220 c 8,482 8,826 11,193 11,682 c • 395 635 756 874 c) |

⁽a) Includes expenditure on aboriginal affairs.

Aboriginal welfare

A referendum in May 1967 led to the repeal of Section 127 of the Constitution which provided that in reckoning the numbers for census purposes, Aboriginals should not be counted; and to the deletion of the words 'other than the Aboriginal race in any State' from Section 51 (xxvi) which relates to the power of the Commonwealth Parliament to make laws in respect to people of any race. The Commonwealth Government's aim is to help Aboriginals become self-managing and self-sufficient, while at the same time preserving and developing their own distinctive culture. It now shares with the States power to legislate in respect of Aboriginal people. The Commonwealth Government has assumed full responsibility for policy, planning and co-ordinating in respect of Aboriginal affairs at the national level, and has established a Department of Aboriginal Affairs with regional offices in all States and the Northern Territory. The Department also serves the Council for Aboriginal Affairs, comprising a Chairman and two members. In November 1973 an election was held by Aboriginals throughout Australia to establish the first National Aboriginal Consultative Committee, a group of 41 Aboriginals and Torres Strait Islanders which will be elected every two years, to advise the Government on Aboriginal needs. At the request of the Committee, the second election which was scheduled for November 1975, was deferred for nine months. Subsequently, the Government established an independent inquiry into the role of the Committee. The inquiry is to report by August 31, 1976.

⁽b) Expenditure on fixed assets and increase in stocks.

Outlays by Commonwealth Government authorities, which have been identified as specifically relating to Aboriginal advancement, are shown in the following table.

OUTLAY ON ABORIGINAL ADVANCEMENT BY COMMONWEALTH GOVERNMENT AUTHORITIES

(S'000)

| | | | | 1970–71 | 1971-72 | 1972-73 | 1973-74 | 1974-7 |
|-----------------------------------|------|---|---|---------|------------|------------|---------|-----------|
| Final consumption expenditure— | | | | | | | | |
| Law, order and public safety | | | | 24 | 28 | 715 | 1,190 | 2,58 |
| General research | | | | 369 | 429 | 449 | 1,252 | 1,28 |
| Education | | | | 3,066 | 3,540 | 4,413 | 5,451 | 10,03 |
| Health | | | | 393 | 603 | 1,069 | 1,518 | 2,73 |
| Welfare | | | | 8,194 | 9,072 | 12,915 | 21,118 | 39,56 |
| Housing | | - | | 89 | 32 | 844 | 228 | 1,55 |
| Community development . | | | | ï | 4 | 1 | 160 | -, |
| Recreation | | Ī | • | 77 | 115 | 466 | 809 | 1,28 |
| Labour and employment . | : | : | • | 489 | 651 | 1,020 | 1,843 | 1,45 |
| Total final consumption expenditu | ıre | | ٠ | 12,702 | 14,474 | 21,892 | 33,569 | 60,48 |
| Gross capital formation— | | | | | | | | |
| Expenditure on new fixed assets- | _ | | | | | | | |
| General research | | | | 57 | 41 | 64 | 248 | 36 |
| Education | | | | 851 | 632 | 2,263 | 3,085 | 6,30 |
| Health | | | | 103 | 7 | 277 | 1,087 | 1,59 |
| Welfare | | | | 1,057 | 330 | 623 | 228 | 50 |
| Housing | | | | 518 | 860 | 784 | 324 | 6 |
| Community development. | | | • | 290 | 975 | 1,388 | 2,081 | 3,61 |
| Total expenditure on new fixed as | sets | | | 2,876 | 2,845 | 5,399 | 7,053 | 12,45 |
| Expenditure on existing assets- | | | | | | | | |
| Community development. | • | • | • | | •• | 1,547 | 421 | 2,97 |
| Total gross capital formation | • | | | 2,876 | 2,845 | 6,946 | 7,474 | 15,43 |
| Transfer payments— | | | | | | | | |
| Transfers to persons | | | | 2,527 | 3,012 | 4,920 | 7,012 | 8,69 |
| Grants for private capital purpos | ses | | | 2,168 | 2,283 | 6,829 | 19,582 | 35,10 |
| Grants to the States— | | | | | | | | |
| Current | | | | 800 | 1,665 | 6,649 | 6,670 | 13,14 |
| Capital | • | • | • | 6,200 | 7,535 | 15,351 | 25,580 | 23,90 |
| Total transfer payments . | | | | 11,695 | 14,495 | 33,749 | 58,844 | 80,85 |
| Net advances— | | | | | | | | |
| To the States | | | | | -39 | -19 | -19 | -1 |
| To other sectors | • | • | | 725 | 672 | 362 | 1,207 | 1,71 |
| Total net advances | | | | 725 | <i>633</i> | 1,343 | 1,188 | 1,69 |
| Total outlay | | | _ | 27,998 | 32,447 | 63,930 | 101,075 | 158,47 |

State expenditure on certain welfare services

The following table shows net expenditure from State government funds on certain welfare services. The figures exclude expenditure on unemployment, bush fire, flood, etc.. relief, Aboriginal welfare, and some other items which are excluded because information cannot be obtained for all States. Loan fund expenditure is excluded also. Because of differences in organisation and accounting methods, the information shown for the items is not on exactly the same basis for all States; it may also be incomplete because particulars of some activities are not separately recorded and are therefore excluded. The expenditure shown is 'net' in the sense that receipts for services rendered have been deducted from gross expenditure.

NET EXPENDITURE BY STATE GOVERNMENTS ON CERTAIN WELFARE SERVICES (\$'000)

| Service and year | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|---|----|---|--------------|--------------|--------------|--------|--------|--------------|-------|----------------|
| 1973–74— | | | - | | | | | | | |
| Relief of aged, infirm, child we Miners' phthisis | | | and | 48,450 39 | 29,821 44 | 10,931 | 15,818 | 15,996 84 | 4,154 | 125,170 168 |
| Total 1973-74 | ١. | | • | 48,489 | 29,865 | 10,931 | 15,818 | 16,080 | 4,154 | 125,338 |
| Total- | | | | | | | | | | |
| 1972-73 . | | | | 41,814 | 26,083 | 11,541 | 12,036 | 13,964 | 3.681 | 109,120 |
| 1971-72 . | | | | 33,758 | 23,132 | 8,282 | 9,044 | 12,838 | 3,164 | 90,219 |
| 1970–71 . | | | | 25,184 | 17,965 | 6,836 | 6,999 | 10,320 | 2,876 | 70,182 |
| 1969–70 . | ٠ | • | ٠ | 21,453 | 14,317 | 5,702 | 5,751 | 8,817 | 1,966 | 58,006 |

Social Welfare

The Department of Social Security provides a professional social work service, a welfare service to migrants including a telephone interpreter service, (see also Migrant Welfare, Settlement and Integration, Chapter 7) and after care for refugees. It administers grants to the following bodies: Australian Council of Social Service, Australian Council on the Ageing, Australian Council for Rehabilitation of Disabled, Good Neighbour Councils, voluntary welfare agencies to employ social workers for work amongst migrant communities (Grant-in-Aid Scheme), Australian Council of Trade Unions to develop a research unit, State Governments for Social Policy Planning Units, Australian Branch of International Social Service and locally based community welfare agencies in serious financial difficulty (emergency funding only).

To assist in its role of advising the Government on welfare policy, the Department of Social Security initiates, develops and evaluates experimental projects in social welfare and undertakes research studies. The experimental projects currently being administered and evaluated by the Department are the Australian Assistance Plan, Community Information Centres and Welfare Rights Program.

The Australian Assistance Plan aims to assist in the planning and development, at a regional level, of integrated patterns of community welfare services which are complementary to the welfare policies and programs of the Commonwealth and State Governments and local government authorities, voluntary organisations and consumer groups. Thirty-seven regions in Australia are participating in the pilot phase of the Plan.

A pilot project of twelve Community Information Centres is being developed and evaluated to determine ways of establishing an effective system of information and referral for all members of the community.

The Welfare Rights Program consists of grants to 10 self-help organisations to enable them to employ a Welfare Rights Officer who aims to improve the access of disadvantaged persons to welfare services and entitlements.

The Social Welfare Commission, established under the Social Welfare Commission Act 1973, operated from April 1974 as an independent statutory advisory body on social welfare matters in Australia. It had operated for 12 months previously as an Interim Committee. The Government announced in February 1976 its intention to abolish the Social Welfare Commission.

The functions of the Commission are to recommend on the development of a balanced and integrated national program of social welfare and to establish program priorities accordingly. The Commission is responsible particularly for identifying and reporting on community needs in the welfare field.

The Commission consists of nine part-time Commissioners and a full-time Chairman and Deputy Chairman. It reports to the Minister for Social Security, and to the Parliament through the Minister.

In pursuit of its broad responsibilities for social analysis as the basis for recommending to Government on welfare matters, up until March 1976 the Commission had—

published some 60 titles which have been widely distributed free-of-charge;

participated in, and presented papers at conferences, seminars, working groups etc.;

funded a total of 47 research projects at a cost of some \$515,000; 21 projects had been completed and 26 others were continuing;

made Fellowship awards to enable four people to undertake particular studies in an area of social policy of relevance to their own experience and expertise;

undertaken major inquiries into the care of young children and care of the aged;

established in co-operation with State Governments the first comprehensive study of services for families:

developed and evaluated the Australian Assistance Plan and tabled in Parliament a report on the pilot phase of the Plan;

presented a progress report on social welfare manpower in Australia, indicating preliminary findings and suggesting areas requiring further study;

published papers on the role of local government in social welfare, issues in governmental financing of voluntary bodies, legislation for child and family welfare in the Australian States and Territories, and the needs of lone parent families in Australia;

issued papers on the financing of social welfare activities in Australia, looking especially at expenditure patterns and levels of responsibility;

undertaken preliminary work on classifying welfare services for comparative and forward planning purposes;

convened committees to examine policy for inter-country adoptions and to develop guidelines on Commonwealth Government assistance towards national voluntary agencies. Papers on these subjects were forwarded to the Government.

The role of voluntary agencies in Australian social welfare

Voluntary agencies have played an important role in the provision of social welfare services in Australia since the earliest days of settlement. The oldest voluntary organisation in Australia is the Benevolent Society of New South Wales, founded in 1818, 'to relieve the poor, the distressed, the aged and the infirm'. During the 19th century voluntary agencies were active in all States providing homes for orphan and abandoned children; industrial schools for older boys and girls often rescued from total destitution in the streets; relief in food and clothing for widows, old people and families of the unemployed; hospitals for the sick poor; and institutions for the aged and invalid.

Although in this century the Commonwealth and State Governments have taken over many tasks formerly carried out by voluntary agencies, this has not led to any diminution in voluntary activity. The voluntary sector is probably more active today than it has ever been, not only carrying out its traditional role, but in opening up new fields of activity.

In caring for the aged, voluntary agencies are co-operating with the Government in providing aged persons homes, retirement villages, hostels for the frail aged and nursing homes for the sick aged. In addition to the provision of residential care, voluntary agencies are increasingly offering service to the aged in their own homes to enable them to be independent as long as possible. Services include 'Meals on Wheels', home help, leisure programs in senior citizens centres, friendly visiting to the lonely aged and sheltered workshops to provide meaningful activity, and many similar services designed to enhance the well-being of the aged.

The same pattern of activity is seen in services for the mentally and physically handicapped. Voluntary agencies provide day and residential schools for handicapped children, sheltered workshops for those able to undertake some employment and hostels for the handicapped in both sheltered and open employment. Many organisations provide home visiting services and occupational therapy for the home-bound, special training centres for various forms of rehabilitation, and recreational programs for those unable to participate in general community activities. The handicapped field is also noted for its activities in bringing together self help groups of the handicapped and their families to promote the well being of the handicapped and to encourage study and research into both prevention and rehabilitation.

Besides the various forms of health services described above, many major hospitals are provided by the voluntary sector. Of the approved hospitals in Australia, almost 15 per cent are run by voluntary organisations. Such hospitals cover a wide range of needs and in addition provide nursing training which may ultimately be of service to the full range of hospitals and nursing homes.

Family and child welfare has long been an important area for voluntary activity. Children's homes provide for children deprived of normal home life because of serious problems within the family, in a wide variety of units ranging from the small family group home in an ordinary house in the suburbs, to the large unit of cottage homes grouped together. As with other services, recent years have shown a marked emphasis on preventive services through family welfare agencies and to greater use of substitute families in adoption and foster care programs.

Within the modern family welfare agency, assistance is given not only with money and food, as in the last century, but with marriage guidance, parental counselling and home-maker services, all designed to keep the family together as a unit. Other voluntary agencies run services for the single mother or provide day-care services to assist working mothers, in particular the one parent family or the family under special strain.

The well-being of Australian youth is also a matter of concern to the voluntary sector which runs youth activities of many varieties, offers adolescent counselling services and is showing a growing concern for the seriously emotionally disturbed and those becoming addicted to drugs.

As well as these general community services, special services for Aborigines have been a feature of voluntary activity. Formerly these were mainly concerned with the mission area but of late many agencies have been formed, often run wholly by Aborigines, to assist urban dwellers. Legal aid services, head start programs, nutrition programs and many others are now being made available through voluntary effort.

The care of immigrants is also a significant activity and again much of this work is now undertaken by settled immigrants in conjunction with longer established Australians.

Prisoners and ex-prisoners also receive their share of attention. Organisations exist to visit prisoners and assist their families. These will also assist prisoners on discharge, to re-settle in the community, either at home, in lodgings or in hostels provided by the agency. Other agencies concern themselves with alcoholics, homeless men and women and others temporarily destitute.

The list of activities by no means covers all the work done by the voluntary sector New and experimental services such as Lifeline and Samaritans, drug contact centres, drop-in coffee houses, street workers for alienated youth and many others, are evidence of the continued ability of the voluntary sector of social welfare to develop and meet new social needs.

Another area of developing interest involves the participation of various kinds of citizen groups in social welfare services. These include Community Information Centres and Community Aid services largely manned by volunteers; groups of clients of social welfare services who provide both a service for their members and liaise with Departmental services on questions of the way service soffered to people in need; and Resident Action groups who are concerned to participate in any replanning of their neighbourhood. This area of citizen involvement can be expected to become more and more important over the next few years.

During 1973 and 1974 many new fields of activities opened up for voluntary groups. The Australian Assistance Plan (see page 444) is aiming to involve a wide range of community groups through Regional Councils of Social Development in the planning and development of local community services. Grants are available from the Schools Commission to groups to provide programs for disadvantaged children, and from the Department of Recreation and Tourism to provide for voluntary activity by and for young people.

Studies of social needs and of the quality and the adequacy of present services are a continuing concern of the voluntary sector which through the work of Councils of Social Service at the State and the national level, promote the well-being of the deprived and disadvantaged sections of the community and the general social development of Australia.



CHAPTER 14

PUBLIC HEALTH

This chapter is concerned with activities of the Commonwealth Department of Health including quarantine, national health benefits programs and Federal grants for health purposes; activities of the State Health Departments; statistics of hansenide hospitals and mental health institutions; statistics of notifiable diseases; and cremations. Statistics relating to causes of death are presented in Chapter 8, Vital Statistics.

Further information about the administration of public health services is contained in the annual reports of the Director-General of Health; the annual reports of the State health authorities; and in the Year Books and annual bulletins published by the State offices of the Australian Bureau of Statistics.

NATIONAL HEALTH SERVICES

Prior to an amendment to the Constitution in 1946 the only health function of the Commonwealth Department of Health was in relation to quarantine. Consequent upon this amendment the Commonwealth Government was given powers to make laws in respect to pharmaceutical, hospital and sickness benefits and medical and dental services. The Commonwealth Government also has used its powers under section 96 of the Constitution to make grants to the States for health purposes. In addition the Commonwealth Government gives financial assistance to certain organisations concerned with public health matters. A number of Commonwealth Government health organisations have been established; detailed information on the functions and operations of these organisations is given in this and previous Year Books and in the annual reports of the Commonwealth Director-General of Health.

Quarantine

The Quarantine Act 1908 is administered by the Commonwealth Department of Health and has three sections of disease control, as follows: (i) human quarantine; (ii) animal quarantine; and (iii) plant quarantine.

In respect of interstate movements of animals and plants, the Act becomes operative only if the Governor-General considers that Commonwealth Government action is necessary for the protection of any State or States. In general the administration of interstate movements of animals and plants is left in the hands of the States.

Human quarantine

With a few exceptions, which concern persons who have spent at least 14 days in areas adjacen to Australia (e.g. New Zealand, Papua New Guinea and Fiji) all passengers and crews arriving in Australia from overseas, whether by air, or sea are subject to medical inspection for the purpose of preventing the introduction of disease into Australia. At the major ports full-time quarantine officers carry out the work, but in the minor ports local doctors act as part-time quarantine officers. Quarantine activities are controlled by the Directors of Health in each State who are senior medical officers of the Commonwealth Department of Health.

The main concern of the examining officers is to detect cases of the quarantinable diseases smallpox, cholera, yellow fever, plague, and typhus fever. These diseases are not endemic to Australia and it is of great importance to prevent their entry. Quarantine stations at the major ports and at Darwin and Townsville are kept ready for occupation at all times. In addition, persons arriving in Australia and suffering from infectious diseases such as chicken-pox, mumps, scarlet fever, and measles are directed to appropriate care and placed in isolation where necessary.

Valid International Certificates of Vaccination are required of travellers to Australia as follows: Smallpox. From travellers over the age of 12 months who, within the last 14 days have been in a country any part of which is infected with smallpox.

Cholera. No certificate is required.

Yellow fever. All arrivals from yellow fever endemic zones.

All passengers, whether they arrive by sea or air, are required to give their intended place of residence in Australia, so that they may be traced if a case of disease occurs among the passengers on the aircraft or ship by which they travelled to Australia.

Isolation. Under the Quarantine Act, airline and shipping operators are responsible for the expenses of isolation of all travellers who disembark either (i) having been in an endemic zone within 6 days of arrival and not possessing a yellow fever vaccination certificate; or (ii) having arrived by air without a smallpox vaccination certificate and refusing to be vaccinated on arrival.

The numbers of cases of infectious (non-quarantinable) diseases which were discovered among the passengers and crew of overseas vessels and aircraft calling at Australian ports are shown in the following tables.

HUMAN QUARANTINE: CASES OF INFECTIOUS (NON-QUARANTINABLE) DISEASES ON OVERSEAS VESSELS AND AIRCRAFT CALLING AT AUSTRALIAN PORTS 1974-75

| Diseas e | | | | | | | oj | l number f cases of nfectious disease |
|-----------------|--------|------|---|---|---|---|----|--|
| Chicken pox | | | | | | | | 37 |
| Dysentery | | | | | | | | 8 |
| Gastro-ente | ritis | | | | | | | 3 |
| Herpes | | | | | | | | 7 |
| Infectious de | ermat | itis | | | | | | 2 |
| Infectious h | epatit | is | - | | | | | 11 |
| Influenza | | | | · | | | | 7 |
| Leprosy | | • | | | | • | | 3 |
| Measles | - | · | • | · | · | · | | 9 |
| Meningitis | - | · | · | • | • | • | • | í |
| Mumps | - | · | • | • | • | • | • | i |
| Rubella | - | • | • | · | • | • | • | 7 |
| Salmonella i | infect | ion | • | • | • | • | • | 3 |
| Venereal dis | | | : | : | • | : | : | 147 |
| Total | l | | | | | | • | 252 |

HUMAN QUARANTINE: OVERSEAS VESSELS AND AIRCRAFT ARRIVING IN AUSTRALIA AND CASES OF INFECTIOUS (NON-QUARANTINABLE) DISEASES FOUND

| Number o cases o infectiou | | Number of Overseas vessel and aircraft cle | (| | | | | |
|----------------------------------|----------|--|---|---|--|--|--|---------|
| diseas | Aircraft | Ships | | | | | | Year |
| 56 | 8,127 | 6,233 | | • | | | | 1970–71 |
| 47 | 7,895 | 5,872 | | | | | | 1971–72 |
| 51 | 11,879 | 5,975 | | | | | | 1972–73 |
| 40 | 9.023 | 6,318 | | | | | | 1973-74 |
| 25 | 12,757 | 6,515 | | | | | | 1974-75 |

The provisions of the State Health Acts with regard to the compulsory notification of infectious diseases and statistics of cases notified in the years 1971 to 1975 are dealt with on pages 466-7 of this chapter.

Animal quarantine

Animal quarantine, authorised by the provisions of the *Quarantine Act* 1908, aims at preventing the introduction or spread of animal diseases. It covers the importation of all animals, raw animal products and biological cultures associated with animal diseases, and goods associated with animals.

Of the domesticated animals, only horses, dogs and cats, are admitted from a limited number of countries outside Australasia. Cattle, sheep, goats and pigs may be imported only from New Zealand. All must be accompanied by health certificates which may include prescribed tests. Dogs and cats, except those from New Zealand, are subject to quarantine detention on arrival in Australia. Zoological specimens are imported into registered zoos, where they remain in permanent quarantine. Circuses are also registered if exotic species of animals are kept. In similar manner, animals for scientific purposes are imported to approved laboratories. Bovine semen may be imported only from the United Kingdom, Ireland, Canada and New Zealand. Raw animal products such as hair, wool, skins and hides are specially treated under quarantine control. Such items as raw meat, which cannot be sterilised, are admitted only from New Zealand. Other items may be treated to destroy any possible infection. Special attention is given to the importation of biological substances of animal origin.

The Animal Quarantine Branch was created in 1926. The central administration is situated within the Department of Health in Canberra, with an Assistant Director-General and veterinary officers. The Principal Veterinary Officer of the Department of Agriculture in each State is appointed Chief Quarantine Officer (Animals) of that State, and members of his staff Quarantine Officers (Animals). These State officers carry out the quarantine policy formulated by the central administration. Quarantine accommodation is provided in permanent animal quarantine stations at each State capital.

Information regarding animal diseases and parasites in Australia is collected and disseminated by means of service publications. Consultation on technical matters is maintained with various scientific institutions. In matters of policy and the quarantine control of imports there is a close liaison with the Bureau of Customs.

The Branch collaborates with the General and Plant Divisions of the quarantine service. Many diseases of animals are communicable to man, and for this reason animal and general quarantine administration are in some respects closely allied. Similarly the interests of animal and plant divisions overlap, many items such as insects, fodder and straw being the subject of combined control.

Plant quarantine

Australia is free of many of the pests and diseases of agriculture which occur in other parts of the world. Since 1 July 1909 the importation into Australia of plant materials has been subject to an increasingly stringent quarantine; some materials are admitted only under certain conditions while others are prohibited altogether. The quarantines are designed to keep out of the country any additional pests and diseases which, while not a danger in their natural habitat, may thrive in the Australian environment and, if introduced, bring about serious economic losses to Australian agriculture.

The quarantine of plants and plant material entering Australia is the responsibility of the Commonwealth Government; the State Governments provide co-operation in the operation of the plant quarantine service. The movement of specified fruits and other plant materials within Australia is the responsibility of the State Governments.

The Commonwealth Government regulations governing plant quarantine apply to all plants or parts of plants, whether living or dead, and include seeds and fruits as well as timber, soil, living insects, cultures of organisms, containers, machinery, vehicles, furniture, packing materials and some foods, toys, sporting goods or tools of trade. All such goods must be declared whether they are imported as commercial consignments or as personal effects, curios, souvenirs and unprocessed food carried in luggage or on the persons of tourists, immigrants or other travellers. Heavy penalties are laid down for evasion of the regulations.

Quarantine inspectors are required to examine all plant material at the first port of entry and to release only material which is not considered to be a danger to agriculture or for which prior approval to import has been obtained. Any material found to be carrying diseases or pests, or suspected of doing so, may be ordered into quarantine for remedial treatment, the cost of which is met by the importer. All bamboo, cane and rattan articles are automatically fumigated. Destruction may be ordered where treatment or return to sender is impracticable, or no prior approval has been obtained, or the goods are prohibited imports.

Certain material, such as nursery stock and some seeds, may be imported only with special permission, and then in small quantities sufficient merely to establish a variety or strain. Arrangements must be made for this material to be grown in post-entry quarantine in Australia at a nursery registered by the Australian authorities. Application to import goods of this nature must be lodged in advance with the Chief Quarantine Officer (Plants) of the State Department of Agriculture in the capital city of the State of destination or with the Director of Quarantine in Canberra. Other restricted seeds or materials of plant origin for use as human or animal food or for manufacturing purposes, may have to be processed under quarantine supervision, and imports of this description also require prior approval.

Strict supervision by way of inspection and treatment, where necessary, is exercised over the timber components as well as the contents of cargo containers and unit cargoes. Packing materials of straw, raw cotton, rice hulls or rice straw are prohibited imports which will be destroyed at the port of entry. Cases or cartons which have previously contained fruit or plant materials are prohibited imports, while dunnage and scantlings used in containers or cargo holds are subject to quarantine. All timber, including logs or sawn timber, is carefully inspected to ensure that it does not contain insects which could spread to forests or timber constructions.

Facilities for quarantine treatments and inspections including the propagation of plants and seeds are available in each State, the Northern Territory and in the Australian Capital Territory where a plant quarantine research station has been established to undertake research into plant quarantine techniques and special treatments not usually investigated by established research groups within Australia or overseas. The Plant Quarantine Research Station in Canberra is equipped to undertake studies in the disciplines of plant pathology, entomology, nematology and virology as well as providing assessment and development of quarantine equipment and treatments.

Additional information concerning Australian plant quarantine regulations, treatments and lists of prohibitions and restrictions, may be obtained from Australian consular offices abroad, the Director of Plant Quarantine with the Commonwealth Department of Health in Canberra or from the Chief Quarantine Officer (Plants) with the respective State Departments of Agriculture in Sydney, Melbourne, Brisbane, Adelaide, Perth and Hobart.

Personal health services and subsidies

National Health Benefits

The Medibank Program, a scheme of national health insurance, commenced on 1 July 1975. Policies relating to Medibank and other aspects of the Government's health benefits schemes are the responsibility of the Commonwealth Department of Health.

The hospital side of the Program has been based on agreements between the Commonwealth and the State Governments. The Commonwealth Government agreed to share equally with the States the net operating costs of recognised (i.e. public) hospitals covered by the agreements. The agreements commenced on the following dates—South Australia and Tasmania, 1 July 1975; Victoria and Western Australia, 1 August 1975; Queensland, 1 September 1975; and New South Wales, 1 October 1975. Half the net operating costs of recognised (public) hospitals in the Australian Capital Territory and the Northern Territory have been met under the Medibank Program since 1 July 1975.

The Commonwealth Government received legal advice during May 1976 that the hospital agreements were invalid. Consequently the *States Grants (Hospital Operating Costs) Act* 1976 was passed to enable the Commonwealth to continue to contribute to the net operating costs of recognised (public) hospitals. The Act was an interim measure to enable new arrangements to be made.

On admission to a recognised (public) hospital, patients are able to choose to be accommodated as either hospital patients or private patients. Hospital patients receive all necessary hospital services, including medical treatment, free of charge. Private rooms are provided for hospital patients on the basis of medical necessity.

Private patients are required to pay for their hospital accommodation, the rates being \$20 and \$30 per day for multi-bed wards and single bed rooms respectively. They are treated by the medical practitioner of their choice. Private insurance coverage is available from registered hospital benefits organisations to cover these fees. Private doctors' fees have attracted Medibank medical benefits.

Patients in private hospitals also have their accommodation subsidised under Medibank. This subsidy is at the rate of \$16.00 per day and is paid to the hospitals which then deduct an equivalent amount from the patients' accounts.

Australian residents who are hospitalised whilst temporarily absent overseas are eligible for a Medibank hospital benefit of \$16 per day. Contributors to hospital benefits organisations will also receive benefits from those organisations subject to the combined benefits not exceeding the fees charged.

The Special Account Arrangements of hospital benefits continued to operate following the introduction of Medibank (hospital). They are designed to ensure that fund benefits are paid to contributors to registered health benefits organisations who would otherwise be denied hospital benefits under the organisations' rules relating to chronic illnesses. Under these arrangements, an organisation transfers a contributor to the Special Account if, in accordance with its rules, fund benefits are not payable. Fund benefits (within specified limitations) for which the contributor is eligible are then paid and debited to the Special Account. The Contributor's contributions are credited to the Special Account, and the Government reimburses the organisation to the extent of the amount of the deficit of the Account.

Medical benefits through Medibank are paid in respect of services rendered by medical practitioners, optometrical consultations by participating optometrists and certain services rendered in operating theatres of hospitals by approved dentists. The benefits are based on a schedule of fees which lists a separate fee for each item of service in each State. Medibank medical benefits for any service is 85 per cent of the schedule fee for that service in the State in which it was rendered with a maximum gap of \$5 between the schedule fee and the benefit for that service to be met by the patient.

Persons receiving medical services from a specialist receive benefits to cover the higher cost involved, provided that they are referred to the specialist by another medical practitioner, by a dentist for a service arising from a dental service, or by an optician or optometrist when referred direct to an ophthalmologist.

Under Medibank, eligible pensioners, i.e. former Pensioner Medical Service pensioners, are eligible for the same benefits as all other persons in the community. In addition, provision exists for the making of arrangements whereby they will receive benefits without direct cost. Every doctor providing medical services in Australia has been invited to enter into an undertaking that he will ask eligible pensioners and their dependants whether they wish to assign medical benefits to the doctor in the way described above. Where the doctor and the pensioner agree to the assignment of benefits, the benefits will be paid direct to the doctor by Medibank and be accepted by him in full payment of the medical expenses incurred by the pensioner.

Funding of the Medibank scheme has recently been altered. From 1 October 1976, free Medibank medical and hospital cover applies only to persons below a certain income level. Persons above that level must contribute through an optional taxation levy, membership of a private health fund or a direct contribution to Medibank.

Nursing Home Benefits

Benefits available in respect of qualified nursing home patients are:

- (i) Ordinary Care Benefit, currently payable at the rate of \$3.50 a day, is paid for all qualified nursing home patients in premises which have been approved as nursing homes under the National Health Act.
- (ii) Supplementary Benefit, introduced on 1 January 1969 to provide for the payment of \$3.00 a day for patients who require and receive intensive nursing home care as defined in the National Health Act. This benefit is payable in addition to the ordinary care benefit making a total of \$6.50 a day for approved patients. Both the ordinary care benefit and the supplementary benefit are paid by the Commonwealth Government direct to nursing home proprietors who are required to deduct such amounts from the accounts issued to patients.

- (iii) Additional Benefit for Pensioner Patients, introduced on 1 January 1973 in respect of patients who hold Pensioners Health Benefits cards, is payable direct to nursing home proprietors in the same manner as the basic nursing home benefits referred to above. Eligible pensioners are not required to take out health insurance coverage to receive this benefit which is payable in addition to the preceding benefits. The rates of benefit payable differ from State to State and are set out below.
- (iv) Insurance Benefit for Non-pensioner Patients. Patients who are not qualified pensioners for the purpose of receiving the additional pensioner benefit can receive the same rate of additional benefit if insured with a registered hospital benefits organisation. This benefit is paid by the registered hospital benefit organisation direct to the nursing home.

The additional benefits (iii) and (iv) above are based on a minimum patient contribution (currently \$5.90 a day) as provided for in the National Health Act.

The maximum level of additional nursing home benefits payable in each State is: New South Wales \$39.90 per week (\$5.70 daily); Victoria \$64.05 (\$9.15); Queensland \$43.05 (\$6.15); South Australia \$64.05 (\$9.15); Western Australia \$38.85 (\$5.55) and Tasmania \$54.25 (\$7.75).

Where the fees charged by a nursing home are in excess of the combined total of basic Government benefit (either \$3.50 or \$6.50 a day) plus the patient contribution (\$5.90 a day) plus additional benefit (to maximum shown above), the difference must be met by the patient. Conversely, where the nursing home fee is less than this combined total, the additional benefit (whether fund benefit or Government benefit for pensioners) is reduced by that amount.

Deficit Financing of Religious and Charitable Nursing Homes as an alternative to the provision of patient benefits under the National Health Act (as outlined above) the Nursing Homes Assistance Act 1974 provides for an arrangement whereby the Commonwealth Government may meet the net operating deficits of religious and charitable nursing homes.

All organisations wishing to participate in the deficit financing arrangements must enter into a formal agreement with the Commonwealth Government for that purpose.

Nursing home patient benefits as provided under the National Health Act are not payable to a nursing home during any period in respect of which that nursing home participates under the deficit financing arrangements.

Nursing homes participating under the deficit financing arrangements are required to charge a minimum patient fee currently at the rate of \$41.25 a week. However, provision does exist for this 'prescribed fee' to be waived in certain circumstances.

Domiciliary Nursing Care Benefits. A domiciliary nursing care benefit became effective from 1 March 1973. In general terms it is payable, at the rate of \$14 a week (\$2 daily), to persons who are willing and able to care, in their own homes, for aged parents or immediate relatives who would otherwise qualify for nursing home benefits. The basic criteria for the payment of the benefit are that the patient must be aged 65 years or over and be in need of continuing nursing care and receive regular visits by a registered nurse. This benefit is not subject to a means test and is payable, under the National Health Act, in addition to any entitlements that persons may have under the Social Services Act or the Repatriation Act for pensions or other supplementary allowances.

HOSPITAL, NURSING HOME AND DOMICILIARY NURSING CARE BENEFITS AND PAYMENTS, UNDER THE NATIONAL HEALTH ACT AND NURSING HOMES ASSISTANCE ACT, 1974-75
(\$2000)

| | | | (\$ 00 | , ,,, | | | | | |
|---|-------------------------|------------------------|-------------------------|----------------------|---------------------|----------------------|------------------|------------|---------------------------|
| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| Uninsured patients (80c) Insured patients (\$2.00) (a) | 336 10,836 | 166 7,040 | 71 2,297 | 39 2,800 | 68 2,259 | 15 719 | 17 (b) | 13 (b) | 725 25,952 |
| Hospitalisation free of charge (\$2.00) | 118 10,234 27,980 | 133 5,411 10,724 | 2,412 3,845 8,853 | 15 1,879 4,974 | 1 2,276 5,993 | 10 1,193 1,870 | 144 79 (c) | 270 232 | 2,833 25,187 60,627 |
| Intensive care nursing home patients (\$3.00) Pensioner nursing home | 8,190 | 6,516 | 4,413 | 2,554 | 2,801 | 640 | (c) | 63 | 25,177 |
| patients(d) | 25,318 | 16,725 | 7,620 | 7,170 | 5,009 | 2,135 | (c) | 189 | 64,167 |
| Nursing home deficit financ- ing payments(e) | 3,278 | 2,667 | 756 | 2,038 | 857 | 508 | (c) | (d) | 10,103 |
| Domiciliary nursing care (\$2.00) | 2,223 | 1,667 | 1,315 | 770 | 762 | 375 | (c) | (d) | 7,112 |
| Total | 88,513 | 51,048 | 31,583 | 22,239 | 20,025 | 7,464 | 241 | 769 | 221,882 |
| | | | | | | | | | |

⁽a) Excludes payments of \$70,202,000 towards Special Accounts deficits, \$1,141,000 towards Subsidised Health Benefits Plan management expenses and \$17,344,000 towards Subsidised Health Benefits hospital and nursing home fund benefit reimbursements. (b) Insured patients are shown by State of registration of organisations. No organisations are registered in the A.C.T. or N.T. and insured patients in the two territories are covered by organisations registered in the States. (c) Included in South Australia. (d) Included in New South Wales. (e) Deficit financing arrangements under the Nursing Homes Assistance Act commenced on 1 January 1975.

Federal Authorities Expenditure

Pharmaceutical benefits

All persons receiving treatment from a medical practitioner registered in Australia are eligible for benefits on a comprehensive range of drugs and medicines when supplied by an approved pharmacist upon presentation of a prescription, or by an approved private hospital to patients receiving treatment at the hospital. Special arrangements exist to cover prescriptions dispensed at locations outside the normal conditions of supply, e.g. in remote areas.

Since the introduction of the Medibank scheme patients in recognised hospitals are supplied with drugs and medicinal preparations under that scheme.

Patients, other than eligible pensioners and their dependants now pay a contribution of \$2.00 for each benefit prescribed. Total cost of prescriptions for eligible pensioners and their dependants is met in full by the Commonwealth Government.

Patient contribution for the general public since the commencement of the current pharmaceutical benefits scheme was: 50 cents, from March 1960; \$1.00 from 1 November 1971; \$1.50 from 1 September 1975 and \$2.00 from 1 March 1976. Between 1 November 1971 until 29 February 1976, beneficiaries under the subsidised Health Benefit Plan obtained pharmaceutical benefits on payment of half the normal patient contribution.

The following table sets out the number of prescriptions and expenditure on the more frequently prescribed therapeutic preparations under the Pharmaceutical Benefits Scheme for 1973–74 and 1974–75. The expenditure includes patient contributions (\$59.0m in 1973–74 and \$66.8m in 1974–75) and prescriptions issued free to pensioners (\$66.8m and \$80.6m). Benefits dispensed by hospitals and through miscellaneous services are not included. These amounted to \$43.4m and \$50.4m.

Summary of cash benefits to persons

For an analysis by function and economic type of expenditure by all Commonwealth Government authorities see Chapter 18, Public Finance.

Most Commonwealth Government health benefits are financed through the National Welfare Fund and the Health Insurance Commission. The following two tables show cash benefits to persons by Federal Authorities for recent years.

FEDERAL AUTHORITIES: HEALTH CASH BENEFITS TO PERSONS 1975-76 (\$'000)

| | N.S.W. (a) | Vic. | Qld | S.A. (a) | W.A. | Tas. | N.T. (a) | A.C.T. (a) | Abroad | Total |
|---|---------------|---------|---------|---|---------------|--------|-------------|---------------|--------|----------|
| Hospital and clinical services— | | | | _ | - | | | | = | |
| Hospital benefits for pen- | | | | | | | | | | |
| sioners | 3,786 | 1,325 | 1,059 | 194 | 606 | 193 | • • | 33 | | 7,196 |
| Medibank-Private hospital | 12 720 | | 0.334 | 7 724 | | 1.00/ | | | | ** ** |
| daily bed payments . | 13,738 | 17,395 | 9,234 | 7,724 | 5,175 | 1,826 | | 171 | • • | 55,263 |
| Hospital benefits, n.e.c. | 46,531 | 28,301 | 10,403 | 9,188 | 6,257 | 2,478 | | 7 | • • | 103,165 |
| Nursing home benefits . Tuberculosis campaign | 76,259 | 44,101 | 28,337 | 21,462 | 18,773 | 6,621 | | • • | • • | 195,553 |
| allowances | 366 | 191 | 160 | 58 | 77 | 46 | | | | 898 |
| Rehabilitation of ex-service- | 300 | 191 | 100 | 20 | " | 40 | • • • | • • • | •• | 0.70 |
| men | 51 | 85 | 39 | 15 | 17 | 9 | | 6 | | 223 |
| теп | 31 | 83 | 39 | 13 | 17 | 9 | • • • | U | • • | 223 |
| Total | 140,731 | 91,398 | 49,232 | 38,641 | 30,906 | 11,172 | | 217 | | 362,298 |
| Other health services— | | | | | | | | | | |
| Medical benefits for pen- | | | | | | | | | | |
| sioners | 1.944 | 1,472 | 822 | 539 | 372 | 175 | | 19 | | 5,344 |
| Medibank-Medical benefits | 263,950 | 162,119 | 75,859 | 57,450 | 42,067 | 14.622 | • • • | 13,403 | • • • | 629,471 |
| Domiciliary care | 2,322 | 1,811 | 1,412 | 852 | 847 | 452 | • • | | • • • | 7.697 |
| Medical benefits, n.e.c. | 33,936 | 24,243 | 8,245 | 6,942 | 5,737 | 1,641 | • • | • • • | • • | 80,744 |
| Pharmaceutical benefits for | 35,530 | 24,243 | 0,243 | 0,542 | 3,737 | 1,041 | • • | • • • | • • | 00,744 |
| pensioners | 45,488 | 25,524 | 16,270 | 9,884 | 7,104 | 3.064 | | | | 107,334 |
| Pharmaceutical benefits. | 42,400 | 25,524 | 10,270 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,,,,,,, | 3,004 | • • | • • • | • • • | 10.,55 |
| n.e.c. | 62,415 | 40,475 | 20,369 | 13,106 | 9,999 | 3,788 | | 26,357 | | 176,509 |
| Milk for school children | 02,113 | 40,175 | 20,200 | | -, | •, | | 8 | | 8 |
| | | | | | | | | | | |
| Total | 410,054 | 255,644 | 122,977 | 88,774 | 66,127 | 23,742 | • • | 39,788 | 1 | ,007,107 |
| | | | | | | | | | | |

⁽a) State totals for New South Wales and South Australia also include most of the unallocable expenditure on cash benefits to persons resident in the Australian Capital Territory and the Northern Territory respectively.

FEDERAL AUTHORITIES: HEALTH CASH BENEFITS TO PERSONS (\$'000)

| | | | 1971–72 | 1972-73 | 1973–74 | 1974-75 | 1975-76 |
|--|-----|------|---------|---------|---------|---------|------------|
| Hospital and clinical services— | | | | | | | |
| Hospital benefits for pensioners . | | | 24,065 | 23,768 | 24,295 | 25,187 | 7,196 |
| Medibank-Private hospital daily bed pa | ivm | ents | , | | | | 55,263 |
| Hospital benefits, n.e.c | | | 67,305 | 82,270 | 89,488 | 116,150 | 103,165 |
| Nursing home benefits | | - | 70,593 | 92,836 | 112,740 | 161,593 | 195,553 |
| Tuberculosis campaign—allowances | | | 630 | 780 | 740 | 754 | 898 |
| Rehabilitation of ex-servicemen . | | - | | 134 | 150 | 201 | 223 |
| Other , | | | | ••• | í | | |
| Total | | | 162,593 | 199,788 | 227,414 | 303,885 | 362,298 |
| Other health services— | | | • | | | | |
| Medical benefits for pensioners . | _ | _ | 27,804 | 30,822 | 35,417 | 47,800 | 5,344 |
| Medibank-Medical benefits . | | - | | | , | , | 629,471 |
| Medical benefits, n.e.c. | • | | 132,574 | 160,238 | 163,449 | 195,818 | 80,744 |
| Pharmaceutical benefits for pensioners | Ċ | | 52,005 | 58,139 | 66,803 | 80,699 | 107,334 |
| Pharmaceutical benefits, n.e.c | • | | 121,263 | 119,493 | 151,493 | 181,643 | 176,509 |
| Milk for school children | | - | 11,894 | 11,781 | 8,118 | 58 | é 8 |
| Domiciliary care | | • | ••• | 1,022 | 6,309 | 7,112 | 7,697 |
| Total | | | 345,540 | 381,495 | 431,589 | 513,130 | 1,007,107 |
| Total health | | | 508,133 | 581,283 | 659,003 | 817,015 | 1,369,405 |

PRESCRIPTIONS DISPENSED UNDER THE PHARMACEUTICAL BENEFITS SCHEME(a) 1974 AND 1975

| • | | | 1 | ear ended 30 Ju | ne | | |
|--------------------------------|--------|-------|-----|-----------------|-------------|-------------------------|---------|
| | | | 1 | 974 | | 1975 | |
| Drug group | | | - | Prescriptions | Expenditure | Prescriptions Expenditi | |
| | | | | 000's | \$'000 | 000's | \$'000 |
| Analgesics | | | | 7,777 | 19,814 | 9,392 | 23,550 |
| Anovulants | | | | 5,244 | 11,790 | 5,823 | 14,260 |
| Antacids | | | | 2,467 | 4,297 | 2,516 | 4,742 |
| Anti-cholinergics | | | | 1,271 | 4,602 | 1,345 | 4,767 |
| Anti-convulsants | | | | 462 | 2,079 | 480 | 2,280 |
| Anti-depressants | | | | 3,309 | 7,770 | 3,431 | 8,283 |
| Anti-diabetics | | | | 737 | 4,152 | 770 | 4,971 |
| Anti-histamines | | | | 4,391 | 9,280 | 4,750 | 10,547 |
| Blood vessels-Drugs acting on | | | | 3,909 | 17,094 | 3,929 | 18,387 |
| Broad spectrum antibiotics | | | | 6,492 | 20,560 | 6,771 | 22,528 |
| Bronchial spasm preparations | | | | 3,221 | 12,889 | 4,079 | 16,604 |
| Corticosteroids | | | | 781 | 2,304 | 786 | 2,421 |
| Diuretics | | | | 4,744 | 16,820 | 5,344 | 19,183 |
| Expectorants and cough suppr | ressa | nts | | 868 | 922 | 1,413 | 1,691 |
| Eye drops | | | | 1,475 | 2,823 | 1,615 | 3,365 |
| Gastro-intestinal sedatives | | | | 757 | 1,788 | 1,047 | 2,806 |
| Genito-urinary infections-Dru | igs ac | cting | on. | 1,552 | 4,978 | 1,637 | 5,311 |
| Heart-Drugs acting on . | | | | 1,861 | 7,288 | 2,372 | 10,666 |
| Iron preparations | | | | 1,415 | 1,968 | 1,439 | 2,166 |
| Parkinsons-Drugs used for | | Ċ | | 383 | 1,931 | 392 | 2,079 |
| Penicillins | | | | 5,928 | 17,809 | 6,752 | 20,688 |
| Sedatives and hypnotics. | | · | Ī | 4,535 | 5.764 | 4,617 | 6,408 |
| Sera vaccines | • | · | · | 968 | 1,504 | 928 | 1,598 |
| Sulphonamides | • | • | • | 1,663 | 4,816 | 2,156 | 6,735 |
| Tranquillisers | - | • | • | 5,915 | 13,291 | 6,183 | 14,505 |
| Water and electrolyte replacen | nent | • | • | 2,133 | 4,705 | 2,377 | 5,814 |
| Other drug groups . | | : | ÷ | 13,030 | 28,194 | 15,331 | 35,568 |
| Total | | | | 87,288 | 231,230 | 97,674 | 271,921 |

⁽a) Excludes benefits dispensed by hospitals and those covered by special arrangements.

Anti-tuberculosis campaign

Under an arrangement with the Commonwealth Government, each State conducts a campaign against tuberculosis. The Commonwealth Government reimburses the State for all approved capital expenditure in relation to tuberculosis, and for net maintenance expenditure to the extent that it exceeds maintenance expenditure for the year 1947–48. Thus the States carry out the physical or field work of the national campaign and the Commonwealth Government acts in an advisory, co-ordinating and financial capacity. The National Tuberculosis Advisory Council has been set up to advise the Minister with respect to the running of the campaign. There are twelve members, the chairman being the Director-General of the Commonwealth Department of Health.

To reduce the spread of infection the Commonwealth Government pays allowances to persons suffering from infectious tuberculosis, so that they may give up work and undergo treatment. These allowances have been in operation since 13 July 1950 and the current rates payable with effect from 13 May 1976 are shown in the following table.

RATES OF TUBERCULOSIS ALLOWANCE: AUSTRALIA, 1976

| Classification | | <u> </u> | | | Weekly allowance |
|----------------------------------|-------|----------|---------|------|---------------------|
| Sufferer with dependent spouse | | | | | 36.00 |
| Dependent spouse of sufferer | | | | | 36.00 |
| Sufferer without spouse but with | a dep | enden | t child | | 45.25 |
| Sufferer without dependants . | | | | | (a)44.50 |

⁽a) Reduced to \$41.25 where treatment is received free of charge in an institution.

In addition to these rates there may be payable a mother's or guardian's allowance of up to \$6.00 a week or supplementary assistance of up to \$5.00 a week. An allowance of \$7.50 a week is payable in respect of each dependent child of a sufferer.

There is a means test on income but not on property. The allowance is reduced by half the amount by which a person's income from sources other than his allowance exceeds, in the case of a married person with a dependent spouse \$34.50, and without a dependent spouse or other dependant, \$20 a week.

Commonwealth Government expenditure. Expenditure by the Commonwealth Government on its anti-tuberculosis campaign is set out in the following tables.

COMMONWEALTH GOVERNMENT EXPENDITURE ON ANTI-TUBERCULOSIS CAMPAIGN 1974-75 (\$'000)

| | | | Commonwealth ment reimburs States and pay Territories | ements to | C. I. hanafea | |
|---------------------------|------|--|--|-------------|--------------------------------|--------|
| State or Territory | | | Capital Mai | ntenance(a) | Cash benefits to persons(b) | Tota l |
| New South Wales | | | 34 | 3,923 | 274 | 4,231 |
| Victoria | | | 10 | 4,128 | 161 | 4,299 |
| Queensland | | | 56 | 2,979 | 148 | 3,183 |
| South Australia | | | 31 | 1,114 | 38 | 1,183 |
| Western Australia | | | | 992 | 56 | 1,048 |
| Tasmania | | | | 435 | 58 | 492 |
| Northern Territory | | | | 382 | 23 | 405 |
| Australian Capital Territ | tory | | | 98 | 1 | 99 |
| Australia | • | | 131 | 14,051 | 759 | 14,940 |

⁽a) Includes administrative costs of \$516,854 payable from Consolidated Revenue.

COMMONWEALTH GOVERNMENT EXPENDITURE ON ANTI-TUBERCULOSIS CAMPAIGN

(\$'000)

| | Carl barrefra | ements to | Commonwealth ment reimburse States and pay Territories | | | | | | | | |
|--------|--------------------------------|-------------|---|--|--|--|--|---------|--|--|--|
| Total | Cash benefits to persons(b) | ntenance(a) | Year | | | | | | | | |
| 12,067 | 659 | 10,938 | 469 | | | | | 1970–71 | | | |
| 11,010 | 630 | 9,942 | 438 | | | | | 1971-72 | | | |
| 12,409 | 780 | 11,242 | 388 | | | | | 1972-73 | | | |
| 12,897 | 716 | 11,740 | 441 | | | | | 1973-74 | | | |
| 14,940 | 759 | 14,051 | 131 | | | | | 1974-75 | | | |

(a) Includes administrative costs payable from Consolidated Revenue.

(b) Allowances to sufferers.

Mass immunisation campaigns

Poliomyelitis. An anti-poliomyelitis campaign, using Salk vaccine, was commenced in 1956. This campaign continued until 1967 when, following a recommendation by the National Health and Medical Research Council, a campaign using Sabin vaccine was commenced in all States, the Northern Territory and the Australian Capital Territory. The Sabin vaccine is taken orally and a course of treatment consists of three doses. These are given at intervals of eight weeks. In the period 1967 to 1974 fifteen new cases were reported. In 1975 one new case was reported.

Measles. As a result of a recommendation by the National Health and Medical Research Council in May 1969, campaigns against measles commenced in early 1970 and during 1972 were in operation in all States, the Australian Capital Territory and the Northern Territory. The vaccine being used is derived from the Schwarz virus strain which is a live attenuated virus. It is administered by intramuscular injection to children in their second year of life. A course of treatment consists of one dose. A total of 242,720 doses was distributed through the Commonwealth Serum Laboratories during 1975.

Rubella. In 1969, the National Health and Medical Research Council recommended that the Cendehill rubella vaccine be used in anti-rubella (German measles) campaigns in Australia. Consequently, the Commonwealth Government agreed to make this vaccine available to the States on the same basis as poliomyelitis and measles vaccines. By December 1970 all States had indicated that they would accept this offer. Immunisation campaigns have been conducted in all States, the Northern Territory and the Australian Capital Territory since 1971 amongst girls in the twelve to fourteen years age group. The vaccine is available from health departments and, through them, from private practitioners to other women at risk. A course of treatment with rubella vaccine, given intra-muscularly, is one dose.

Community health services and subsidies

The Commonwealth Government, through the Department of Health, introduced two programs in 1973-74 aimed at developing and maintaining community-based health services. These programs form part of the Government's policy to promote the regionalisation and modernisation of hospitals, linked with the development of community-based health services and preventive health programs.

The Hospitals and Health Services Commission has the responsibility of submitting recommendations to the Minister for Health for allocation of both capital and operating funds to develop and maintain community-based general health care services, including prevention, treatment, rehabilitation and related welfare aspects of community health. The implementation of the approved programs is undertaken by the Department of Health in co-operation with State Governments. (For further details see page 460.)

Under the *Mental Health and Related Services Assistance Act* 1973, grants are made available to State Governments, local government authorities or voluntary agencies for the provision of 'medical and other services or facilities for, or in relation to, the prevention or diagnosis of, or the treatment or rehabilitation of persons suffering from mental illness, mental disability, alcoholism or drug dependence".

The Home Nursing Subsidy Scheme, which is a continuing service at the community level provides for a Federal subsidy to assist in the expansion of home nursing activities. Organisations eligible for the subsidy are those which are non-profit making, employ registered nurses, and receive assistance from a State Government, local government body or other authority established by or under State legislation. During 1974–75 subsidies totalling \$7.2m were paid to 179 organisations providing home nursing services in the States. Home nursing services in the Northern Territory and the Australian Capital Territory are provided by the Commonwealth Department of Health.

National health services organisations

The Commonwealth Department of Health Pathology Laboratory Service was originally established under provisions of the National Health Act 1953. The laboratories provide diagnostic and investigational facilities at fifteen locations, principally in country areas, throughout Australia. Laboratories are situated in Albury, Alice Springs, Bendigo, Cairns, Canberra, Darwin, Hobart, Kalgoorlie, Launceston, Lismore, Port Pirie, Rockhampton, Tamworth, Toowoomba and Townsville. Their primary role is to assist medical practitioners in the diagnosis of illness and disease and to provide facilities for investigations into public health and aspects of preventive medicine. During 1974–75, the laboratories carried out approximately 4.5 million pathology tests and investigations in respect of 1.3 million patient requests.

The Commonwealth Serum Laboratories (CSL) are controlled by the Commonwealth Serum Laboratories Commission, a corporate body established under the Commonwealth Serum Laboratories Act 1961. CSL is Australia's leading centre for the production and supply of biological products for human and veterinary use and one of Australia's foremost scientific institutes.

Its main functions are to produce and sell prescribed biological products used for therapeutic purposes and to ensure the supply of prescribed essential biological products in accordance with national health needs. The functions include research and development relating to the range of products in its charter and allied fields and the maintenance of potential production capacity for use in emergencies. The research laboratories and production and storage buildings are located on an 11 hectare site at Parkville, Victoria.

For several decades, CSL has been Australia's chief supplier of biological medicines, insulins, vaccines, penicillins, human blood fractions, BCG and an ever-increasing range of veterinary biological products needed by Australia's sheep, cattle, pig and poultry industries.

In addition, biological research into many kinds of human and veterinary disease is carried out, covering the fields of bacteriology, biochemistry, immunology and virology.

The Laboratories employ more than 1,000 people, including medical officers, veterinarians, bacteriologists, biochemists, physicists, engineers, accountants, laboratory assistants and skilled tradesmen.

The Commonwealth Radiation Laboratory was originally established in 1929 as the Commonwealth Radium Laboratory, and has served from that time as the Australian centre for radiological physics and as custodian of all Australian-owned radium used for medical purposes. The laboratory's functions have expanded over the years to include the physical aspects of the use of X-rays and of other ionising radiations for medical diagnosis and treatment; the distribution of all radiopharmaceuticals used in Australia for medical purposes; the maintenance of facilities for radio-chemical investigation; the assay of radioactive substances in the Australian environment; and the maintenance of a whole-body monitor. National standards for the measurement of X-rays and of radionuclides are also maintained. The laboratory provides assistance in matters relating to protection against ionising radiations and operates a film-badge service to monitor the radiation exposure of those who work with such radiation. The laboratory also provides advice on the hazards associated with the use of microwave and laser radiations. In 1974-75 there were 18,214 deliveries of radiopharmaceuticals, comprising 31 different isotopes, procured for use in medicine and medical research. Of these 16,665 deliveries were obtained from the Australian Atomic Energy Commission. Free issues for medical diagnosis and therapy, supplied for patients throughout Australia, were 932,241, the cost of \$2,439,415 being met from the National Welfare Fund. Film badges, numbering 92,132 were processed, assessed, and reported on. The Laboratory also supplied radon to approved hospitals and private practitioners in Australia and New Zealand. In 1974-75, 20,264 millicuries of radon were issued. Administrative costs for 1974-75 were \$966,204 and \$127,621 was expended on plant and equipment.

The National Acoustic Laboratories undertake scientific investigations into hearing and problems associated with noise as it affects individuals. The Laboratories' functions include advice to the Armed Forces and Commonwealth Government Departments and instrumentalities on hearing conservation and the reduction of noise. Audiological services are provided in major centres throughout Australia to assist children, ex-servicemen and pensioners with hearing problems. Hearing aids are supplied and serviced free of charge to persons under 21 years, and to pensioners and their dependants. Hearing aids are also provided and maintained on behalf of Veterans' Affairs and other Commonwealth Government Departments. During 1974–75 the number of new cases examined at the laboratories was 39,649 including 17,304 children, 5,539 repatriation cases, 761 members of the defence forces, 13,150 pensioners and 684 civil aviation referrals; 23,620 calaid hearing aids were fitted and 111,634 were on loan at the end of the year. The cost of supply and maintenance of hearing aids to persons under 21 years and pensioners was \$1,722,170. Administrative costs of the laboratories were \$3,006,885 and expenditure on plant and equipment \$432,884.

The Ultrasonic Institute, established in August 1974, provides research and advisory services on the use of ultrasonic waves for the diagnosis and treatment of disease. The new body continues and expands the work previously undertaken by the Ultrasonics Research Section of the National Acoustic Laboratories. The Institute is made up of four sections—Advanced Techniques, Engineering Research, Echography and Biology.

Commonwealth Government health advisory organisations

The National Health and Medical Research Council advises the Commonwealth Government and State Governments on all matters of public health legislation and administration, on matters concerning the health of the public, and on medical research. It also advises the Commonwealth Government and State Governments on the merits of reputed cures or methods of treatment which are from time to time brought forward for recognition. The Council advises the Commonwealth Minister for Health on the application of funds from the Medical Research Endowment Fund which provides assistance to Commonwealth Government Departments or to a State Department engaged in medical research; to universities for the purpose of medical research; to institutions and persons engaged in medical research and in the training of persons in medical research. The Commonwealth Government makes a triennial appropriation for the Fund, that for 1976 to 1978 being \$24,000,000. The secretariat for the Council and its Committees is provided by the Commonwealth Department of Health and is located in Canberra.

The School of Public Health and Tropical Medicine, located at the University of Sydney, provides training in public health, tropical medicine and occupational health for medical graduates and certain undergraduates, in addition to carrying out research and consultative activities in these and allied fields. During 1975, seventeen diplomas were awarded in Public Health and ten in Tropical Medicine and Hygiene. A diploma in Occupational Health was offered for the first time in 1974 and thirteen diplomas were awarded in the first year.

The Institute of Child Health is associated with the School of Public Health and Tropical Medicine at the University of Sydney and with the Royal Alexandra Hospital for Children at Camperdown. Its activities include research into medical and social problems of childhood, undergraduate and postgraduate teaching at the University of Sydney, collaboration with other national and international organisations concerned with child health and disease, and the training of United Nations and Colombo Plan Fellows. Costs of the Institute paid by the Commonwealth Government during 1975–76 were \$73,735, for administration and \$28,964 for plant and equipment.

The Australian Dental Standards Laboratory, formerly the Commonwealth Bureau of Dental Standards, operates under Section 9 of the National Health Act 1953. It is a part of the Commonwealth Department of Health and is concerned with research and testing related to dental and allied materials, instruments and equipment and processes. It assists in the preparation of standards for operation of standards for materials, instruments and equipment by providing technical data for standards prepared in co-operation with the Standards Association of Australia. It provides Chairmen for the Dental Standards Committees. It co-operates with the Australian Dental Association in its program of accreditation of dental products. Its functions include instruction to the dental profession and its auxilliaries on the handling of dental materials and the provisions of a consultative service and testing facilities for the armed services, public instrumentalities, the dental profession and manufacturers and distributors of dental products.

Regular surveys are made of the quality of dental products and the results are made available to the profession. It participates in the preparation of international standards for dental materials. The number of products tested during 1974-75 was 413. These included assessment of deterioration of dental products under tropical conditions. Expenditure on plant and equipment for 1974-75 was \$26,402 and administrative expenses, including salaries, were \$108,213.

The National Biological Standards Laboratory is responsible for the development of standards for therapeutic goods for human and veterinary use, and for testing such products for compliance with standards thereby ensuring that they are safe, pure, potent and efficacious. Other responsibilities including the inspection of manufacturing premises and the evaluation of new and modified products make it the lynchpin of a uniform national system of control over therapeutic goods.

The laboratory was established within the Commonwealth Department of Health in 1958 under powers provided by the *Therapeutic Substances Act* 1953. The *Therapeutic Goods Act* 1966, proclaimed on 12 November 1970, which repealed the Therapeutic Substances Act, simplified the machinery for creating standards and extended the Commonwealth Government's powers over medical devices, containers and packages for therapeutic goods.

The British Pharmacopoeia, the British Pharmaceutical Codex and the British Veterinary Codex are specified in the Act as primary standards. In addition, the Minister has powers to make orders setting standards for specific types of goods and general classes of goods which are imported, or the subject of interstate trade, or supplied to the Commonwealth Government. Standards developed by the National Biological Standards Laboratory are submitted to a statutory committee, the Therapeutic Goods Standards Committee which advises the Minister on the suitability.

The Laboratory jointly with State officials and the pharmaceutical industry prepares and revises an Australian Code of Good Manufacturing Practice which is the criterion employed by inspectors for the licensing of pharmaceutical manufacturers.

The Laboratory has sections which deal with viral products, bacterial products, pharmaceutical products, antibiotics and pharmacology. Administrative costs for 1975–76 were \$2,348,199 and a further \$71,620 was expended on plant and equipment.

The Australian Drug Evaluation Committee operates under the Therapeutic Goods Act 1966. Its functions are: (a) to make medical and scientific evaluations of such goods for therapeutic use as the Minister for Health refers to it for evaluation; (b) to make medical and scientific evaluations of other goods for therapeutic use if, in the opinion of the Committee, it is desirable that it should do so; and (c) to furnish such advice to the Minister for Health as the Committee considers necessary relating to the importation into, and the distributions within Australia, of goods for therapeutic use that have been the subject of evaluation made by the Committee.

It has the powers to co-opt and seek advice from specialist medical colleges and associations and from the medical and allied professions, drug manufacturers and other sources. During 1974–75, 125 applications for general marketing were received and 40 applications for clinical trials were submitted.

The Australian Registry of Adverse Reactions to Drugs was established in 1964 on the recommendation of the Australian Drug Evaluation Committee to provide an early warning system based on reports of reactions to drugs forwarded voluntarily by medical practitioners. To enable more detailed evaluations of reports and increase feedback activities to the medical profession, the Adverse Drug Reaction Advisory Committee was formed in May 1970 as a sub-committee of the Australian Drug Evaluation Committee. Other sub-committees have also been formed, the Vaccines Sub-Committee, the Endocrinology Sub-Committee, the Congenital Abnormalities Sub-Committee and the Parenteral Nutrition Sub-Committee. A further sub-committee on Anti-Cancer Drugs is also in the process of being formed.

The Therapeutic Goods Advisory Committee was established in 1974 to consider and advise the Minister for Health on any matters relating to standards applicable to goods for therapeutic use and the administration of the Therapeutic Goods Act.

The National Therapeutic Goods Committee comprises Federal and State representatives. Its function is to make recommendations to the Commonwealth and State Governments on action necessary to bring about co-ordination of legislation and administrative controls on therapeutic goods. Sub-committees have been formed to consider specific matters notably Advertising, Registration and Code of Good Manufacturing Practice.

The Hospital and Allied Services Advisory Council was established by the 1970 Australian Health Ministers Conference to provide advice on the co-ordination of matters connected with hospital and allied services. This Council consists of representatives of each State health and hospital Department or Commission and the Commonwealth Departments of Health and Social Security and the Chairman of the Hospitals and Health Services Commission. The Department of Veterans' Affairs has two representatives with observer status.

Five committees—Computer Committee, Construction Planning Committee, Post graduate Accreditation Committee, Research Committee and Uniform Financial Procedures Committee—were established to assist and advise the Council. There is also, currently, an ad hoc Committee on Nursing Homes.

The Hospitals and Health Services Commission was formally established on 10 April 1974 to ascertain health care needs and to make recommendations to the Commonwealth Government concerning health care delivery systems, funds to be allocated for these systems, the education of health personnel, the accreditation of services and financial assistance to be made available to States, Territories, regions, local governments, charitable organisations and other persons. In addition the Commission is to promote and participate in planning in relation to health services. Prior to the formal establishment of the Commission under the Hospitals and Health Services Commission Act 1973, an Interim Committee on Hospitals and Health Services had been operating since early in 1973.

In the 1974-75 financial year, the Government approved grants, under the Community Health Program, to the States totalling \$27,462,000 as recommended by the Commission, and a further grant of \$4,087,000 was approved for the Royal Australian College of General Practitioners to establish a program to train increased numbers of general practitioners to undertake the role of the modern family doctor. In addition, a three-year program of planning and research for health services, totalling \$1,025,000 each year, is being implemented by the Commission. The Commission's Reports on Hospitals in Australia, Continuing Medical Education, A Proposal for a Scheme to Accredit Pathology Services in Australia, the Integration of Health Services and Health Education Facilities in the Illawarra Region, and the Australian Health Manpower were tabled in the Parliament in 1974-75.

Commonwealth Government grants to States

Grants for mental bealth institutions

Final payments under the States Grants (Mental Health Institutions) Act 1964 were made in 1973-74. For details of expenditure for the years 1968-69 to 1972-73 see Year Book No. 60 1974, page 459. All expenditure is now made under the Community Health and Hospital Construction Programs and is controlled and funded by the Hospital and Health Services Commission.

Paramedical services

The States Grants (Paramedical Services) Act 1969 provides for the Commonwealth Government to share on a \$1 for \$1 basis with participating States the cost of approved paramedical services, such as chiropody, occupational therapy, physiotherapy and speech therapy, provided wholly or mainly for aged persons in their homes. Matching grant payments during 1974–75 amounted to \$362,419.

Commonwealth Government grants to organisations associated with public health

In addition to providing the services mentioned on pages 447-59 the Commonwealth Government gives financial assistance to certain organisations concerned with public health. Examples of organisations included in this category are given in the following text.

The Royal Flying Doctor Service is a non-profit organisation providing medical services in remote areas of Australia. It is distinct from, but co-ordinates with, the Aerial Medical Services operated by the Commonwealth Department of Health from Darwin, Gove and Alice Springs in the Northern Territory. The Royal Flying Doctor Service is financed mostly from donations and government contributions. For the triennium ended 30 June 1977, the Commonwealth Government has approved grants totalling \$2,100,000 towards operational costs and matching assistance of up to \$800,000 towards an approved program of capital expenditure. Actual payments during 1974–75 amounted to \$700,000 towards operating costs and \$102,233 for capital expenditure. In addition payments of \$547,492 have been made up to 30 June 1975, for the cost of the changeover of radio base stations to single sideband operation. The Service made 4,181 flights during 1974–75, travelled 1,976,241 miles and transported 6,034 patients. In the same period medical staff conducted a total of 94,650 consultations and dental treatment was given to 2,327 patients.

The Red Cross Blood Transfusion Service is conducted by the Australian Red Cross Society throughout Australia. The operating costs of the Service in the States are met by the State Governments paying 60 per cent; the Commonwealth Government 35 per cent; and the Society 5 per cent. In the Northern Territory and Australian Capital Territory the Commonwealth Government pays 95 per cent and the Society 5 per cent. Under arrangements effective from 1 July 1975, approved capital expenditure by the Service in the States will be shared on a \$1 per \$1 basis with the States and in the Territories will be met by the Commonwealth. In 1975–76 the amounts estimated to be paid by the Commonwealth are \$160,000 in the States and \$80,000 in the Territories. Commonwealth Govern-

ment expenditure for each State and Territory, during 1974-75 was as follows: New South Wales, \$590,000; Victoria, \$642,484; Queensland, \$415,742; South Australia, \$364,388; Western Australia, \$358,106; Tasmania, \$57,280; Northern Territory, \$86,500; and the Australian Capital Territory, \$88,500, making a total of \$2,603,000.

The National Heart Foundation of Australia is a private national organisation established to promote research in cardiovascular disease, to rehabilitate heart sufferers and to foster the dissemination of information about heart diseases. The foundation was formed in 1960 as a result of a public appeal yielding \$5 million to which the Commonwealth Government contributed \$20,000. A further appeal in 1969 raised \$1.6 million and the Foundation now has an annual income from public donations of over \$1,200,000. Expenditure in 1975 came to \$1,800,000 of which almost half was devoted to supporting research into cardiovascular disease. This is the single most important function of the Foundation and from its inception to the end of 1975 it has allocated well over \$7 million for grants-in-aid towards research in university departments, hospitals and research institutes; research fellowships tenable in Australia and overseas; and overseas travel grants for study purposes.

The World Health Organisation (WHO), founded during 1948, is a specialised agency of the United Nations having as its objective the attainment by all peoples of the highest level of health. It functions as the directing and co-ordinating authority in international health work; provides consultative and technical assistance to governments and special groups; examines all aspects of health including preventive and curative medicine and research; sets international standards with respect to food, biological, pharmaceutical and similar products; and determines regulations for the control of quarantinable diseases. The organs of WHO are the World Health Assembly and the six Regional Committees which meet annually and the Executive Board which meets twice a year. Australia is assigned to the Western Pacific Region the headquarters of which is at Manila, and was represented at both the 28th World Health Assembly in Geneva in May 1975 and the Regional Committee Meeting in Manila, Philippines in September 1975. Australia's contribution to WHO for 1974-75 was \$A1.082.554.

The International Agency for Research on Cancer was established by the 18th World Health Assembly in 1965 within the framework of the World Health Organisation. The headquarters of the Agency are located in Lyon, France. The objectives and functions of the Agency are the provision for planning, promoting and developing research in all phases of the causation, treatment and prevention of cancer; collection and dissemination of information on epidemiology and cancer research throughout the world; education and training of personnel for cancer research; and the encouragement of, and assistance at national level if necessary by the direct establishment of, research organisations. Participation in the Agency is subject to membership of the World Health Organisation and, at the determination of the Governing Council, the ability of the State to contribute effectively to the scientific and technical work of the Agency. Australia became a Participating State within a few months after the establishment of the Agency. At present there are 10 Participating States namely: Australia, Belgium, France, the Federal Republic of Germany, Italy, Japan, The Netherlands, The Union of Soviet Socialist Republics, the United Kingdom and the United States of America. Australia's contribution to the I.A.R.C. for 1974–75 was \$A154,518.

STATE GOVERNMENT ACTIVITIES

(Includes activities of the Commonwealth Government in the Northern Territory and the Australian Capital Territory)

Public health legislation and administration

For a comprehensive account of the administration of health services in each State, the Northern Territory and the Australian Capital Territory, see the annual reports of the respective Departments of Health. For details of legislation and administrative changes in previous years see earlier issues of the Year Book. The following paragraphs refer briefly to recent developments.

In New South Wales, the Therapeutic Goods and Cosmetics (Amendment) Act, 1974 contains provisions to regulate representations that may be made in advertisements in respect of therapeutic goods and articles of food.

The Dental Technicians Registration Act, 1975 contains proposals to constitute a Dental Technicians Registration Board and to make provisions for the registration of dental technicians.

The Public Health (Amendment) Act, 1975 dissolved the advisory Board of Health and contains provisions for regulating the use of dangerous substances.

In Victoria, the Pharmacists Act, 1974 provides for the registration of pharmacists and control of the practice of pharmacy.

The Health (Contraceptives) Act, 1974 was introduced to establish a form of control over the sale and advertising of contraceptives.

The Optometrists Act, 1975 changed the title of the Opticians Registration Act, 1958 to the Optometrists Registration Act, 1958. The Act also reconstitutes the Board and provides for the payment of fees to members of the Board; enables the Board to recognize overseas qualifications and reduces minimum age requirements for registration; regulates advertising by optometrists; restricts ownership and control of optometrical practices; and increases the maximum level for fee fixing and increases penalties for contraventions of the Act.

In Queensland, the Mental Health Act, 1974 replaced The Mental Health Acts 1962 to 1964. The Mental Health Review Tribunal was enlarged and given wider powers of review of patients. Legal distinction was made between psychiatric hospitals (for the mentally ill) and training centres (for the intellectually handicapped).

The Sale of Human Blood Act 1974 prohibits unauthorized trading in human blood.

The Optometrists Act Amendment Act 1974 consolidated and updated previous legislation for the control of optometry.

The Chiropodists Act Amendment Act 1975 enabled the Chiropodists Board of Queensland to register persons registered in other States, who did not have the qualifications previously required by the Act.

The Health Act Amendment Act 1975 clarified the powers of local authorities in respect to collection, storage, transport and disposal of all types of refuse and nightsoil. Other provisions of the Health Act were upgraded and regulation making powers of the Director-General of Health and Medical Services were clarified. Penalty provisions were upgraded.

In South Australia the Occupational Therapists Act, 1974 provided for the registration of practising occupational therapists.

The Psychological Practices Act, 1974 provided for the registration of psychologists.

The Transplantation of Human Tissue Act, 1974 provided for the removal of human tissues from deceased persons.

In Western Australia the Alcohol and Drug Authority Act, 1974 set up an authority to treat persons suffering from alcohol and drug abuse and to promote and subsidise research and educational facilities directed at prevention and treatment of alcohol and drug abuse.

The Health Act Amendment Act, 1975 increased fees for sanitary rate for lodging houses and offensive trades; and deemed excessive amounts of carbon monoxide in garages a nuisance under the Act.

The Radiation Safety Act 1975 regulates the keeping and use of radioactive substances, irradiating apparatus and certain electronic products.

The *Pharmacy Act Amendment Act* 1975 related to the qualifications, codes of practice and legal standing of pharmaceutical chemists.

The Hospitals Act Amendment Act 1975 restrains a medical practitioner from charging a fee for service rendered at a recognized hospital as defined under the Commonwealth Health Insurance Act, 1973.

In the Northern Territory, the Hospital Advisory Boards Ordinance Amendment, 1974, provides for payments to members of the boards.

The Trading in Blood (Prohibition) Ordinance, 1974, prohibits unauthorized trading in human blood.

The Nurses Registration Ordinance 1974 provides for the enrolment and training of nursing aides in the Territory.

The Caravan Parks Ordinance 1975 provides for the maintenance of certain health standards in caravan parks.

The Hospital and Medical Services (Charges) Regulations Amendment 1975 provides for charges on actual cost basis for in-patients covered by compensation insurance.

In the Australian Capital Territory, the Health Commission Ordinance which came into effect on 1 July 1975, established the Capital Territory Health Commission to control activities previously the responsibility of the Canberra Hospitals Management Board (now abolished) and the A.C.T. Health Services Branch of the Commonwealth Department of Health.

The Public Health (Prohibited Drugs) Ordinance 1975 reduced the penalty for use and possession of less than 25 grams of cannabis to a fine not exceeding \$100.

Supervision and care of infant life

Because the health of mothers and infants depends largely on pre-natal care as well as after-care, government, local government and private organisations provide instruction and treatment for mothers before and after confinement. The health and well-being of mother and child are looked after by infant welfare centres, baby clinics, crèches, etc.

In all States, Acts have been passed with the object of supervising the conditions of infant life and reducing the rate of mortality. (Information about infant mortality will be found in Chapter 8, Vital Statistics.) Stringent conditions regulate the adoption, nursing and maintenance of children placed in foster-homes by private persons.

Under the provisions of the Social Services Act 1947 maternity allowances provide financial assistance towards the expenses associated with the birth of children. Information about maternity allowances is given in Chapter 13, Social Security and Welfare Services.

Nursing activities

Several State Governments maintain centres which provide advice and treatment for mothers and children and, in addition, subsidies are granted to various associations engaged in welfare work.

Infant welfare centres. The following table gives particulars of the activities of infant welfare centres for the latest available year in each State and Territory. The figures relate to all centres, whether permanently staffed or on a temporary or part-time basis. Centres may be located at accommodation specially provided for this purpose, or may be conducted in temporary premises in halls, schools, etc.

INFANT WELFARE CENTRES

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. |
|--|-----|-------------------------------|--------------------------------|----------------------------|---------------------------|-----------------------------|-----------------------------|--------------------------|------------------|
| | | 1973 | 1975 | 197475 | 1973-74 | 1975 | 1975 | 1973-74 | 1974-75 |
| Number of centres(a) . Attendances at centres— | | 444 | 763 | 295 | 303 | 98 | 110 | 19 | 51 |
| Pre-natal | o f | 21,847 | 9,477 | 9,460 | 9,264 | 2,629 | 2,646 | n.a. | • • |
| children | : | 1,213,820 31,602 65,229 | 1,389,833 153,575 28,824 | 554,385 4,668 26,689 | 294,220 34,768 n.a. | 263,163 37,641 19,190 | 140,850 60,011 10.350 | 34,998 7,980 2,102 | 83,060 15,115 |

⁽a) At end of year shown.

Mobile units are used to service centres in some States. The numbers of units and centres served, included in the above table, were as follows: Victoria, 4 and 15; Queensland, 9 and 73; South Australia 5 and 40; Western Australia, 5 and 30. The number of centres for Tasmania includes 14 areas visited by sisters in cars.

Since 1930, the number of attendances at the infant welfare centres has increased more than four-fold. The numbers of attendances at ten year intervals since 1930 were as follows: 1930, 919,893; 1940, 2,035,299; 1950, 3,049,375; 1960, 3,482,383; and 1970, 4,010,906.

Bush Nursing Associations. Treatment for mothers and children is also provided by the Bush Nursing Associations. The numbers of centres maintained by the Associations for the years shown in the above table were: Victoria, 59; Queensland, 5; South Australia, 45; and Western Australia, 13. In New South Wales the Bush Nursing Service has been absorbed into the Community Health Program and in Tasmania, all of the district nursing centres have been taken over by the nearest public hospital and are no longer distinct entities.

Medical and dental inspection of school children

Medical and dental inspection of school children is carried out in all States under the control of State health departments in the Northern Territory under the control of the Commonwealth Department of Health and in the Australian Capital Territory by the Capital Territory Health Commission. The school health services are available to both government and non-government schools in metropolitan areas larger country towns and, in most States, to children attending schools in more remote country areas.

The aim of the school medical services is to medically examine all children at least once during their school careers, usually on entry into primary school. Review examinations or, in some States, tests of vision and hearing by school nurses, are conducted in upper-primary and lower-secondary grades. Parents or guardians are notified of any departure from normal health and advised to seek further attention if necessary.

The aim of the school dental services is to examine and give regular dental treatment to children. Usually, acceptance for treatment is limited to children in primary schools. Some school children

⁽b) Pre- and post-natal.

⁽c) Post-natal.

are treated at hospital dental clinics. Aboriginal missions and orphanages are also visited by school dentists. The consent of a parent or guardian is necessary before treatment can be given. In some States, priority is given to children who live in areas beyond the easy reach of other dental services. Treatment in remote areas is facilitated by the use of travelling dental clinics.

The following table summarises school health services for the latest available year in each State and Territory.

SCHOOL HEALTH SERVICES

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. |
|--|---------|----------------|--------------------|-----------|---------|-----------|---------|--------|
| | 1973 | 1973-74 | 1974-75 | 1974 | 1975 | 1975 | 1973-74 | 1975 |
| School medical services— Staff(a)— | | | | | | | | |
| Medical officers . | 70 | 45 | 6 | 12 | 11 | 18 | 4 | 3 |
| School nurses | 100 | 54 | 34 | 21 | 59 | 34 | 18 | 7 |
| Medical examinations— | | | | | | | | |
| Children examined . | 323,856 | 232,107 | (<i>h</i>)96,074 | (c)85,642 | 88,048 | (c)30,127 | 22,463 | 28,148 |
| Found with defects . | 26,372 | 18,932 | (d)7,111 | (c)12,257 | 13,127 | 5,360 | 3,747 | 2,455 |
| School dental services— Number of dental clinics— | | | | | | | | |
| Stationary | 14 | 3 | 2 | 33 7 | 39 3 | 34 | n.a. | 48 |
| Mobile | (e)19 | 11 | (f)4 | 7 | 3 | 34 27 | n.a. | |
| Staff(a)— | | | , | | | | | |
| Dental officers | 31 | 26 | 19 | 33 | 40 | 28 | n.a. | 16 |
| Dental assistants, | | | | | | | | |
| therapists and nurses . | 49 | 34 | 10 | 78 | 84 | 58 | n.a. | 52 |
| Dental examinations— | | | | | | | | |
| Children examined . | 89,916 | 24 ,903 | (g)20,141 | 37,602 | 33,395 | 50,516 | 25,594 | 25,952 |
| Number treated | 23,208 | 20,157 | (g)20,141 | 33.684 | n.a. | n.a. | n.a. | n.a. |

⁽a) Full-time and part-time. (b) Includes pre-school children. (c) Excludes some children treated for hearing and vision by school sisters. (d) Number of defects found. Includes defects found in pre-school children. (e) There is also a dental team with the Royal Flying Doctor Service (based at Broken Hill). (f) In addition, portable dental equipment is possessed by 14 dental officers who function from departmental vehicles. (g) Only children who reside in more remote areas. From 1974-75, all children examined receive preventative treatment.

HOSPITALS, NOTIFIABLE DISEASES AND CREMATIONS

Public and Private Hospitals and Nursing Homes

The ABS no longer publishes Australia-wide details of these institutions. Information is published in the Annual Reports of the Department of Social Security. Some limited State information is published by State offices of the ABS.

Repatriation hospitals

The medical care of eligible veterans and dependants of deceased veterans is a major function of the Department of Veterans' Affairs, which provides a comprehensive service.

In-patient treatment is provided at the six Repatriation General Hospitals (one in each State) and at seven auxiliary hospitals and sanatoria. In-patient treatment may also be provided in country hospitals at the Department's expense in certain circumstances. Mental patients requiring custodial care are, by agreement with the State Governments, accommodated at the expense of the Department in mental hospitals administered by the State authorities.

Details of patients, staff and expenditure on Repatriation institutions and other medical services are given in Chapter 5, Repatriation.

Hansenide hospitals

There are three isolation hospitals in Australia for the care and treatment of persons suffering from Hansens' disease (leprosy). The numbers of isolation patients at these hospitals at 31 December were: Little Bay, New South Wales, 2 in 1974; Fairfield, Victoria, 4 in 1975; and Derby, Western Australia, 23 in 1975.

In Queensland, leprosy sufferers are treated in a special isolation ward at Princess Alexandra Hospital (Brisbane), the leprosy annex of the Palm Island Hospital and also at a number of other hospitals which do not have facilities set aside specifically for leprosy patients. There were 8 inpatients at 31 December 1975.

In the Northern Territory at 31 December 1975 there were approximately 20 in-patients for the care and repair of deformity as distinct from the purpose of isolation.

Mental health institutions

The presentation of meaningful statistics of mental health services has become increasingly difficult because of changes in recent years in the institutions and services for the care of mental patients. The emphasis has shifted from institutions for care of patients certified insane to a range of mental health services provided for in-patients and out-patients at psychiatric hospitals, admission and reception centres, day hospitals, out-patient clinics, training centres, homes for the mentally retarded and geriatric patients, psychiatric units in general hospitals, and the like.

In-patient institutions

The following table shows the number of major in-patient institutions in each State in 1974, the accommodation they provide for patients, and staff. In-patient care for voluntary patients is also provided at many general public and a number of private hospitals. There are also psychiatric units attached to gaols, juvenile corrective centres and similar institutions. Only the following institutions, under the control of the State mental health authorities, are included in this table: New South Wales—the sixteen State psychiatric centres (a psychiatric hospital and associated admission centre being regarded as one psychiatric centre) and the seven authorised private psychiatric hospitals; Victoria—the eight pyschiatric hospitals, eleven mental hospitals eight informal hospitals, four alcoholism and drug assessment and treatment centres, and ten intellectual deficiency training centres three of which are informal; Queensland—six psychiatric hospitals; South Australia—six in-patient institutions; Western Australia—the four approved mental hospitals and two training centres; and Tasmania—the Royal Derwent hospital.

MENTAL HEALTH: IN-PATIENT INSTITUTIONS, ACCOMMODATION AND STAFF

| | | | N.S.W. | Vic. | Qld | S.A.(a) | W.A. | Tas |
|----------------------------|---|----------|--------|----------|-------|---------|-------|-------|
| In-patient institutions . | | <u> </u> | 23 | (b)41 | 6 | 6 | 6 | 1 |
| Beds and cots for patients | | | n.a. | (c)8,627 | 3,180 | 2,250 | 1,336 | 1,000 |
| Staff-Medical | | | n.a. | (a)148 | (d)60 | 65 | 34 | 17 |
| Nursing(e) | | | n.a. | 3,441 | 1,522 | 917 | 910 | 384 |
| | : | | | ` ' | • , | | - | |

⁽a) 1972-73, (b) At 30 November 1974. (c) The number of beds and cots occupied on 30 November 1974. (d) Includes a number of part-time staff. (e) Includes attendants.

There are no separate in-patient institutions for mental patients in the Northern Territory or the Australian Capital Territory. With the appointment of a Director of Psychiatric Services the organisation of a psychiatric service was begun in the Australian Capital Territory in 1967-68.

Patients

The following table sets out statistics of in-patients under the care of the respective State mental health services.

IN-PATIENTS AT MENTAL HEALTH INSTITUTIONS, 1973-74

| | | | | | N.S.W. | Vic.(a) | Qld | S.A. | W.A. | Tas. | Aust. |
|---------------|---------|---------|---------|----|--------|---------|-------|-------|-------|-------|--------|
| In-patients a | t begin | ning o | f year- | _ | | | | | | | |
| Males . | - | | ٠. | | 5,236 | 5,189 | 2,126 | 1,148 | 1,511 | 463 | 15,673 |
| Females | | | | | 3,684 | 4,447 | 1,194 | 1,060 | 1,176 | 438 | 11,999 |
| Persons | | | | | 8,920 | 9,636 | 3,320 | 2,208 | 2,687 | 901 | 27,672 |
| Admissions | and | re-ac | imissio | DS | • | • | - | • | - | | - |
| during y | ear | | | | | | | | | | |
| Males . | | | | | 13,249 | 6,298 | 1,688 | 1,758 | 1,603 | 558 | 25,154 |
| Females | | | | | 10,370 | 6,258 | 675 | 1,551 | 1.304 | 306 | 20,464 |
| Persons | | | | | 23,619 | 12,556 | 2,363 | 3,309 | 2,907 | 864 | 45,618 |
| Total in-pati | ents (d | ases) | treated | | , | - | - | | • | | • |
| Males . | | | | | 18,485 | 11,487 | 3,814 | 2,906 | 3.114 | 1,021 | 40,827 |
| Females | | | | | 14,054 | 10,705 | 1,869 | 2,611 | 2,480 | 744 | 32,463 |
| Persons | | | | | 32,539 | 22,192 | 5,683 | 5,517 | 5,594 | 1,765 | 73,290 |
| Discharges, i | ncludi | ng dea | ths | - | , | • | • | • | , | • | • |
| Males . | | | | | 13,486 | 6,368 | 1,651 | 1,695 | 1,654 | 557 | 25,411 |
| Females | | | | | 10,534 | 6,302 | 694 | 1,535 | 1,328 | 303 | 20,696 |
| Persons | | | · | | 24,020 | 12,670 | 2,345 | 3,230 | 2,982 | 860 | 46,107 |
| In-patients a | t end o | f vear- | _ ` | Ť | , | | • | • | -, | | • |
| Males . | | | | | 4,999 | 5,119 | 2,163 | 1,109 | 1.460 | 464 | 15,314 |
| Females | | | | | 3,520 | 4,403 | 1,175 | 1,014 | 1,152 | 441 | 11,705 |
| Persons | • | | : | | 8,519 | 9,522 | 3,338 | 2,123 | 2,612 | 905 | 27,019 |

Notifiable diseases

Methods of prevention and control

Provision exists in the Health Acts of all States for the compulsory notification of certain infectious and other diseases and for the application of preventive measures. When any such disease occurs the local authority must be notified at once, and in some States notification must be made also to the Health Department.

As a rule, the local authorities are required to report from time to time to the Central Board of Health in each State on the health, cleanliness and general sanitary state of their several districts and on the appearance of certain diseases. Regulations provide for the disinfection and cleansing of premises and for the disinfection or destruction of bedding, clothing or other articles which have been exposed to infection. Regulations also provide that persons suspected to be suffering from, or to be carriers of, infectious disease must submit to clinical and laboratory examination. Persons suffering from certain diseases, for example, smallpox, are detained in isolation.

Notifiable diseases and cases notified, 1975

The following table shows, by State and Territory, the number of cases notified in 1975 for those diseases notifiable in all States and Territories. In May 1965 the National Health and Medical Research Council at its Fifty-ninth Session proposed a basic list of diseases to be notifiable in each State and Territory, and this table is based upon that proposal. The table does not include all diseases which are notifiable in a State or Territory. Factors such as the following affect both the completeness of the figures and the comparability from State to State and from year to year: availability of medical and diagnostic services; varying degrees of attention to notification of diseases; and enforcement and follow-up of notifications by Health Departments.

| NOTIFIABLE | DICEACEC/AL | NIMBED | OF CASES | NOTIFIED | 1075 |
|------------|-------------|--------|----------|----------|------|
| | | | | | |

| Disease | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------------------|------|-----|--------|-------|-------|-------|-------|------|-------|--------|--------|
| Anthrax . | | | | 2 | | | | | | | 2 |
| Brucellosis | | | 29 | 41 | 4 | 4 | 1 | | | | 79 |
| Diphtheria | | | 7 | | 15 | | | | | | 22 |
| Gonorrhoea | | | 3,517 | 2,242 | 1,718 | 2,114 | 1,977 | 172 | 494 | 67 | 12,301 |
| Hansen's | dise | ase | , | , | -, | -,- | , | | | | • |
| (leprosy) | | | | 4 | 3 | 1 | 15 | | 6 | | 29 |
| Hepatitis, infec | tive | | 880 | 643 | 514 | 203 | 258 | 165 | 138 | 22 | 2,823 |
| Hydatid . | | | 6 | 2 | 2 | 4 | | 4 | | | 18 |
| Leptospirosis | | | 2 | 18 | 11 | 1 | 2 | | | | 34 |
| Malaria . | | | 36 | 48 | 68 | 24 | 22 | | 37 | 14 | 249 |
| Ornithosis. | | | 1 | 2 | | 1 | | | | | 4 |
| Poliomyelitis | | | | | 1 | | • • • | | • • • | | 1 |
| Syphillis . | | · · | 304 | 177 | 482 | 305 | 657 | 2 | 438 | 12 | 2,377 |
| Tetanus . | | Ċ | i | 4 | 6 | | | | | | 11 |
| Tuberculosis | | • | 549 | 306 | 216 | 101 | 141 | 34 | 30 | 24 | 1,401 |
| Typhoid fever | · | · | 2 | 10 | | 2 | | | | | 14 |
| Typhus (all for | ms) | · | | | 3 | | | | • • | | 3 |

⁽a) No cases of cholera, plague, smallpox or yellow fever were notified.

New infectious hepatitis cases notified. The following table shows the number of cases of infectious hepatitis notified during recent years.

INFECTIOUS HEPATITIS: CASES NOTIFIED

| | - | | | | | | |
|------|--------|---------------------------------------|-----------|---|---|-------|---|
| | | | 1971 | 1972 | 1973 | 1974 | 1975 |
| | | <u> </u> | 2,615 | 2,211 | 1,460 | 1,309 | 880 |
| | | | 1,895 | 1,226 | 993 | 768 | 643 |
| | | | 1.258 | 1,379 | 793 | 536 | 514 |
| | | | 504 | 630 | 319 | 193 | 203 |
| | | | 554 | 389 | 473 | 247 | 258 |
| | | | 287 | 93 | 40 | 43 | 165 |
| | | | 296 | 133 | 236 | 168 | 138 |
| Teri | ritory | | 100 | 57 | 44 | 25 | 22 |
| | | | 7,509 | 6,118 | 4,358 | 3,289 | 2,823 |
| | | · · · · · · · · · · · · · · · · · · · | Territory | 1,895 1,258 504 554 287 296 Territory . 100 | 1,895 1,226 1,258 1,379 504 630 554 389 287 93 296 133 Territory . 100 57 | | 1,895 1,226 993 768 1,258 1,379 793 536 504 630 319 193 554 389 473 247 287 93 40 43 296 133 236 168 Territory . 100 57 44 25 |

(a) Includes hepatitis, serum (homologous).

New tuberculosis cases notified. The following table gives particulars of the number of new cases of tuberculosis notified in Australia for 1975.

| TUBERCULOSIS: NEW (| CASES | NOTIFIED(a). | 1975 |
|---------------------|-------|--------------|------|
|---------------------|-------|--------------|------|

| | | A | Age group (years) | | | | | | | | | |
|--------------------|-------|------|-------------------|-------|-------|----------------|---------------|-------|--|--|--|--|
| State or Territory | _ | | 0-14 | 15-34 | 35-54 | 55 and over | Not stated | Total | | | | |
| New South Wales | | | 38 | 88 | 190 | 233 | | 549 | | | | |
| Victoria | | | 32 | 55 | 89 | 115 | | 291 | | | | |
| Oueensland . | | | 10 | 20 | 65 | 104 | 1 | 200 | | | | |
| South Australia | | | 20 | 19 | 22 | 41 | | 102 | | | | |
| Western Australia | | | 12 | 26 | 41 | 41 | 1 | 121 | | | | |
| Tasmania | | | i | 9 | 8 | 18 | | 36 | | | | |
| Northern Territory | | | 4 | 5 | 12 | 9 | | 30 | | | | |
| Australian Capital | Terri | tory | 3 | 5 | 9 | 1 | | 18 | | | | |
| Australia | | | 120 | 227 | 436 | 562 | 2 | 1,347 | | | | |

⁽a) Figures supplied by the Director of Tuberculosis in each State and the Commonwealth Department of Health.

Chronic illnesses, injuries, and impairments

As part of the quarterly population survey (see Chapter 20, Employment and Unemployment) surveys were conducted in May 1968, in all States except Victoria and in May 1974 for the whole of Australia in order to obtain estimates of the incidence of chronic illnesses, injuries and impairments in the population, the nature of these conditions and their cause (e.g. whether they were congenital or due to war, accident, etc.). In addition, the survey obtained information on the effect of these conditions on the activities of those who suffered from them.

Estimates derived from the survey were published in the mimeographed bulletin *Chronic Illnesses Injuries and Impairments* for May 1968 and May 1974. (17.3)

Cremation

The first crematorium in Australia was opened in South Australia in 1903. At 31 December 1975 there were thirty-three crematoria in Australia, situated as follows: New South Wales, 16; Victoria, 4; Queensland, 6; South Australia, 2; Western Australia, 2; Tasmania, 2; Australian Capital Territory, 1. There is no crematorium in the Northern Territory. The following table shows the number of cremations and total deaths in each State and Territory for each of the years 1970 to 1974.

CREMATIONS AND TOTAL DEATHS(a)

| | 1970 | | 1971 | | 1972 | | 1973 | | 1974 | |
|------------------------------|--------------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| State or Territory | Crema- tions | | Crema- tions | | Crema- tions | Total deaths | Crema- tions | Total deaths | Crema- tions | Total death: |
| New South Wales . | . 20,087 | 43,601 | 19,966 | 41,691 | 20,117 | 41,652 | 19,991 | 41,122 | 21,514 | 43,999 |
| Victoria | . 11,265 | 30,335 | 11,134 6,203 | 30,598 | 11,226 6,269 | 29,856 16,598 | 11,677 6,697 | 30,696 16,732 | 11,841 7,568 | 30,875 18,128 |
| Queensland | . 6,303 . 2,884 | 17,055 10,138 | 2,917 | 16,339 9,686 | 3,182 | 9,764 | 3,402 | 9,835 | 3,579 | 10,236 |
| Western Australia | 2,826 | | 2,996 | 7,806 | 3,013 | 7,441 | 3,387 | 7,845 | 3,359 | 7,778 |
| Tasmania | 1.039 | | 1,157 | 3,295 | 1,135 | 3,227 | 1,205 | 3,347 | 1,294 | 3,484 |
| Northern Territory | | 608 | | 637 | ٠., | 553 | | 580 | | 575 |
| Australian Capital Territory | . 338 | 594 | 341 | 598 | 374 | 669 | 365 | 665 | 474 | 758 |
| Australia , , | . 44,742 | 113,048 | 44,714 | 110,650 | 45,316 | 109,760 | 46,724 | 110,822 | 49,629 | 115,833 |

⁽a) Cremations are not necessarily carried out in the State or Territory where the death was registered.

CHAPTER 15

LAW, ORDER, AND PUBLIC SAFETY

This chapter provides summary information about criminal and civil court proceedings (including bankruptcy); selected crime reported or becoming known to the police; police strengths; prisons; expenditure on law and order; fire brigades; and patents, trademarks and copyright. The main sources of further information for individual States are the State Year Books and Annual Statistical bulletins, and the annual reports of the relevant justice authorities. See also Year Book No. 55, 1969, page 456, for short descriptions of the National Safety Council of Australia, lifesaving organisations, the Royal Humane Society and the Order of St John.

The statistics in this chapter are influenced by a number of factors which affect comparability from State to State and from year to year, such as differences in the jurisdiction of courts; changes in the law in particular States and differences in the laws between States; differences in the methods of compiling the statistics (e.g. in respect of persons convicted for more than one offence); the prevailing attitude to laws such as those connected with liquor, vagrancy, gaming, and traffic offences; and the strength and distribution of the police forces.

Details of the development and structure of the State, Territory, and Commonwealth legal systems are given in Year Book No. 55, pages 565–7 and Year Book No. 56, page 441. The only notable changes since then occurred in South Australia and New South Wales. In South Australia the Local Courts Act Amendment Act, 1969 came into operation on 20 August 1970. It provides for the establishment of District Criminal Courts. Provision has been made for the division of the State into districts and for the appointment by the Senior Judge, of judges known as Recorders, to courts in each of these Districts. Under the Act the District Court has the jurisdiction and powers of the Supreme Court in respect of indictable offences except for capital offences and for felonies and misdemeanors where the maximum punishment is imprisonment exceeding ten years.

In New South Wales the Supreme Court Act, 1970 came into operation on 1 July 1972. The Act provides for the concurrent administration of law and equity in the Supreme Court which will have the effect of bringing the New South Wales civil procedure in the Supreme Court in line with the other Australian States which have had concurrent administration from as early as 1876. Equitable reliefs and defences which could formerly only be pleaded in the Supreme Court exercising jurisdiction in equity can now be heard together with common law claims and defences in the one jurisdiction. The general scope of the Act will enable a suitor to obtain by one proceeding, the same ultimate result as he would previously have obtained either by having selected the right jurisdiction or after having been to each jurisdiction in succession. The Law Reform (Law and Equity) Act, 1972, which also commenced on 1 July 1972, provides that if any conflict or variance arises between the rules of equity and common law with reference to the same matter, the rules of equity will prevail. This principle extends, where applicable, to the inferior courts.

Legal aid

The Australian Legal Aid Office was established by the Commonwealth Government in July 1973. It provides a general problem-solving service of legal advice for persons with an element of need. Each person seeking help from the Office is seen by a lawyer, the problem identified and advice given. Further assistance, including assistance in litigation is available in matters arising under Federal law, including family law, to all persons, and in matters arising under State or Federal law to persons for whom the Commonwealth Government has a special responsibility such as those in receipt of social services, Aborigines, ex-servicemen, students and newcomers to Australia. The assistance is provided by lawyers of the Office or by referral to private legal practitioners.

The criteria for the provision of further assistance are, the merit of the applicant's case and the financial position of the applicant that is, whether he satisfies the means and needs test of the Office. In considering the merits, regard is had to all the circumstances, particularly to any advantage the applicant might gain from the provision of assistance and any disadvantage he might suffer if assistance was refused, and the likelihood that the proceedings will be terminated by a decision, settlement or otherwise so as to result in a proper and just advantage to the applicant. The means and needs test is the inability of the applicant to afford the cost of representation in the particular case. A system of contributions by applicants towards the cost of assistance has been in operation since August 1975.

The Office operates in each State and Territory of the Commonwealth. There is a branch office in each of the capital cities. Twenty-five regional offices have been established in suburban and provincial centres. The Office employs some 150 lawyers and 220 supporting administrative staff. Since its inception, the Office has given advice and assistance to over 200,000 people with interviews running at approximately 15,000 per month. During 1975, over 140,000 interviews were conducted.

Lower (magistrates') courts

Particulars of the powers of magistrates, and of special provisions for dealing with juvenile offenders in special courts in the various States and Territories are given in Year Book No. 55, pages 567 to 571. The statistics in the following tables are influenced by the factors listed at the beginning of this chapter and, in particular by differences in the jurisdiction of lower courts in the various States.

Criminal proceedings

The number of charges heard at magistrates' courts in each State and Territory in recent years are given in the following table. The statistics relate to individual offences for which persons were charged, except for Queensland where proceedings against a person for a number of offences at the one hearing are counted as one charge.

MAGISTRATES' COURTS(a): CHARGES HEARD(b)

| State or Territory | | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------|----------|-----------|-----------|---------|------------|------------|
| New South Wales . | • | 390,233 | 427,560 | n.a. | n.a. | n.a. |
| Victoria | | 339,019 | 339,527 | 370,701 | n.a. | n.a. |
| Queensland $(c)(d)$. | | 110,803 | 110,883 | 114,063 | 123,754 | 125,728 |
| South Australia(c). | | 125,867 | 123,303 | 142,689 | (a)113,829 | (a)113,097 |
| Western Australia. | | 88,940 | 101,077 | 104,001 | 112,736 | 122,316 |
| Tasmania | | 32,880 | 38,046 | 43,277 | 44,890 | 47,986 |
| Northern Territory | | 14,695 | 21,329 | 22,493 | 23,821 | n.a. |
| Australian Capital T | erritory | 10,326 | 11,416 | 19,071 | 20,437 | 21,981 |
| Australia . | | 1,112,763 | 1,173,141 | n.a. | n.a. | n.a. |

⁽a) Includes Children's Court except, from 1973, in South Australia. (b) Excludes minor traffic offences settled without court proceedings. (c) Year ended 30 June. (d) A person charged on several counts at the one hearing is included only once.

Differences between States in the preceding table, and within States over a period of time, are influenced by the large number of traffic offences and the arrangements which have been introduced at various times for dealing with them. Provision exists in the States and the internal Territories for settlement of parking and minor traffic offences by payment of fines without court proceedings. The numbers involved are shown in the next table.

MINOR TRAFFIC OFFENCES SETTLED BY PAYMENT OF FINES WITHOUT COURT PROCEEDINGS

| State or Territory | | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------------|----|-----------|-----------|-----------|---------|---------|
| New South Wales | | 456,798 | 511,005 | 588,729 | 694,697 | 792,469 |
| Victoria | | 477,332 | 544,663 | 611,106 | 631,967 | 672,185 |
| Queensland(a) | | 235,477 | 257,709 | 312,029 | 327,064 | 382,419 |
| South Australia(a) | | 244,120 | 277,464 | 246,184 | 270,515 | 340,829 |
| Western Australia . | | 154,307 | 176,994 | 200,723 | 211,913 | 271,266 |
| Tasmania | | 62,408 | 76,062 | 107,457 | n.a. | n.a. |
| Northern Territory . | | 8,438 | 10,444 | (b)7,574 | n.a. | n.a. |
| Australian Capital Territor | у. | 5,282 | 7,229 | 12,580 | 12,955 | 18,589 |
| Australia | | 1,644,162 | 1,861,570 | 2,086,382 | n.a. | n.a. |

⁽a) Year ended 30 June. (b) During 1972 the duties of Darwin's Council Municipal Inspectors were expanded; in addition there was an alteration to Council By-Laws; these changes resulted in a decrease of minor traffic offence fines for that year.

The following tables show the number of cases dealt with in magistrates' courts in which convictions were made.

CASES AT MAGISTRATES' COURTS(a) IN WHICH CONVICTIONS WERE MADE, BY CLASS OF OFFENCE: 1974

| Class of offence | N.S.W. | Vic. | <i>Qld</i> (b)(c) | S.A. (b) | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-----------------------|--------|------|-------------------|-------------|---------|--------|------|--------|-------|
| Against the person . | n.a. | n.a. | 1,166 | 718 | 2,097 | 778 | п.а. | 248 | п.а. |
| Against property . | n.a. | n.a. | 9,252 | 3,250 | 18,205 | 3,913 | n.a. | 1,551 | n.a. |
| Forgery and offences | | | | | | | | | |
| against the currency. | n.a. | n.a. | | 1 | 306 | 271 | n.a. | 113 | n.a. |
| Against good order . | n.a. | n.a. | 36,538 | 10,787 | 23,998 | 2,577 | n.a. | 999 | n.a. |
| Other(d) | n.a. | n.a. | 60,570 | 78,281 | 64,805 | 25,725 | n.a. | 11,633 | n.a. |
| Total | n.a. | n.a. | 107,526 | 93,037 | 109,411 | 33,264 | n.a. | 14,544 | n.a. |

⁽a) Includes Children's Courts except in South Australia. (b) Year ended 30 June. (c) A person convicted on several counts at the one hearing is included only once. (d) Includes traffic offences other than minor traffic offences settled without court proceedings.

CASES AT MAGISTRATES' COURTS(a) IN WHICH CONVICTIONS WERE MADE(b)

| State or Territory | | 1970 | 1971 | 1972 | 1973 | 1974 |
|------------------------|---------|-------------|-----------|---------|-----------|-----------|
| New South Wales | · | 337,563 | 366,701 | n.a. | n.a. | n.a. |
| Victoria | | 294,554 | 291,669 | 321,261 | n.a. | n.a. |
| Queensland $(c)(d)$. | | 91,198 | 92,650 | 97,532 | 105,897 | 107,526 |
| South Australia(c) | | 114,499 | 110,543 | 123,063 | (a)94,068 | (a)93,037 |
| Western Australia | | 79,899 | 93,548 | 95,673 | 101,972 | 109,411 |
| Tasmania | - | 26,571 | 32,031 | 35,504 | 32,740 | 33,264 |
| Northern Territory | | 13,528 | 20,047 | 20,095 | 21,256 | n.a. |
| Australian Capital Ter | rritory | 6,620 | 8,940 | 14,013 | 14,330 | 14,544 |
| Australia . | | 964,432 | 1,016,129 | n.a. | n.a. | n.a. |

⁽a) Includes Children's Courts except, from 1973 in South Australia. (b) Excludes minor traffic offences settled without court proceedings. (c) Year ended 30 June. (d) A person convicted on several counts at the one hearing is included only once.

The number of cases in which convictions for drunkenness were recorded in recent years are given in the following table.

DRUNKENNESS CASES(a) IN WHICH CONVICTIONS WERE MADE

| State or Territory | | | 1970 | 1971 | 1972 | 1973 | 1974 |
|------------------------|---------|---|---------|---------|--------|----------|----------|
| New South Wales | | | 58,606 | 58,733 | n.a. | n.a. | n.a |
| Victoria | | | 25,054 | 25,820 | 28,962 | n.a. | n.a |
| Oueensland $(b)(c)$. | | | 31,259 | 29,878 | 30,529 | 32,530 | 33,093 |
| South Australia(b) | | | 9,650 | 9,365 | 10,181 | (a)8,314 | (a)7,973 |
| Western Australia | | | 12,612 | 16,197 | 16,379 | 15,104 | 16,142 |
| Tasmania | | | 541 | 716 | 813 | 890 | 1,101 |
| Northern Territory | | Ċ | 6,675 | 8,217 | 8,418 | n.a. | n.a |
| Australian Capital Ter | rritory | | 572 | 393 | 712 | 770 | 680 |
| Australia . | | | 144,969 | 149,319 | n.a. | n.a. | п.а |

⁽a) Includes Children's Court except, from 1973, in South Australia. (b) Year ended 30 June. (c) A person convicted on several counts at the one hearing is included only once.

Convictions for certain serious offences at lower (magistrates') courts

The figures given in the preceding tables refer to all convictions, and include offences of a technical nature, drunkenness, and minor breaches of good order, which come under the heading of crime in a very different sense from the more serious offences. The following table has therefore been prepared to show convictions at magistrates' courts for offences against the person, offences against property, forgery, and offences against the currency.

CONVICTIONS FOR CERTAIN SERIOUS OFFENCES(a) AT MAGISTRATES' COURTS(b)

| State or Territory | | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------|---------|---------|---------|--------|----------|----------|
| New South Wales | | 40,642 | 44,191 | n.a. | n.a. | n.a. |
| Victoria | | 33,025 | 34,744 | 37,881 | n.a. | n.a. |
| Queensland $(c)(d)$. | | 7,525 | 7,373 | 8,480 | 9,343 | 10,418 |
| South Australia(c) | | 7,349 | 8,040 | 8,596 | (b)3.852 | (b)3,969 |
| Western Australia | | 15,925 | 19,776 | 20,058 | 20,615 | 20,608 |
| Tasmania | | 3,813 | 5,073 | 5,811 | 4,645 | 4,962 |
| Northern Territory | | 1,517 | 1,751 | 2,013 | 2,150 | n.a. |
| Australian Capital Te | rritory | 729 | 1,069 | 1,273 | 1,707 | 1,866 |
| Australia . | | 110,525 | 122,017 | n.a. | n.a. | n.a. |

⁽a) Offences against the person, offences against property, forgery, and offences against the currency. (b) Includes Children's Courts except, from 1973, in South Australia. (c) Year ended 30 June. (d) A person convicted on several counts at the one hearing is included only once.

Committals to higher (judges') courts

In the case of other than minor offences a preliminary hearing is held before a stipendiary magistrate or justice of the peace for the purpose of determining whether a prima facie case has been made out. If the magistrate or justice of the peace finds that there is a case to answer, the person charged is committed for trial at a higher court. The numbers of such committals are shown in the following tables.

COMMITTALS TO HIGHER COURTS(a), BY CLASS OF OFFENCE, 1974

| Class of offence | į | N.S.W. | Vic. | Qld (b)(c) | S.A. (b) | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|----------------------|----|--------|------|---------------|-------------|-------|------|------|--------|-------|
| Against the person | | n.a. | n.a. | 559 | 163 | 219 | 182 | n.a. | 51 | n.a. |
| Against property | | n.a. | n.a. | 1,301 | 543 | 716 | 525 | n.a. | 172 | n.a. |
| Forgery and offence | es | | | - | | | | | | |
| against the currency | | n.a. | n.a. | | 14 | 67 | 77 | n.a. | | n.a. |
| Against good order | | n.a. | n.a. | 15 | 73 | 43 | 4 | n.a. | 1 | n.a. |
| Other | | n.a. | n.a. | 60 | 189 | 21 | 53 | n.a. | 31 | n.a. |
| Total . | | n.a. | n.a. | 1,935 | 982 | 1,066 | 841 | n.a. | 255 | n.a. |

⁽a) Includes committals from Children's Courts except in South Australia. (b) Year ended 30 June. (c) A person committed on several counts at the one hearing is included only once.

COMMITTALS TO HIGHER COURTS(a)

| State or Territory | | | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------|---------|---|--------|--------|-------|----------|--------|
| New South Wales . | | | 9,173 | 11,055 | n.a. | n.a. | n.a. |
| Victoria | | | 6,446 | 6,710 | 6,912 | n.a. | n.a. |
| Queensland $(b)(c)$. | | | 1,733 | 2,172 | 2,365 | 2,193 | 1,935 |
| South Australia(b). | | | 742 | 873 | 1,003 | (a)1,001 | (a)982 |
| Western Australia, | | | 1.270 | 1.507 | 893 | 712 | 1,066 |
| Tasmania | | | 1.012 | 1,056 | 1,418 | 1,008 | 841 |
| Northern Territory | | | 151 | 116 | 402 | 408 | n.a. |
| Australian Capital Te | rritory | • | 278 | 179 | 336 | 382 | 255 |
| Australia . | | : | 20,805 | 23,668 | n.a. | n.a. | n.a. |

⁽a) Includes committals from Children's Courts except, from 1973. in South Australia. (b) Year ended 30 June. (c) A person committed on several counts at the one hearing is included only once.

Higher (judges') courts

Higher courts are presided over by a judge, sometimes with a jury. The general jurisdiction of the higher courts in the States and Territories, which for this purpose include District, County and Supreme Courts, includes appeals from the lower courts, cases of serious crime committed for trial or sentence by lower courts, and civil cases involving common law, commercial causes, equity, etc. From 5 January 1975, the Family Law Act 1975 superseded the Matrimonial Causes Act 1959 and established the Family Court of Australia. The jurisdiction in matrimonial causes under the New Act is exercised by the new court and, at least until it is fully established, concurrently by the Supreme Courts of the various States and Territories. In Western Australia, jurisdiction under the Act will be exercised by the Family Court of Western Australia, when it is established. Details of petitions for and decrees of dissolution, nullity, and judicial separation are shown in Chapter 8, Vital Statistics. Under the Bankruptcy Act 1966, the Federal Court of Bankruptcy, the Supreme Courts of New South Wales, Queensland, Western Australia, Tasmania and the Northern Territory, and the Courts of Insolvency in Victoria and South Australia, can deal with bankruptcy cases. However, in practice, the Federal Court deals with bankruptcy cases in New South Wales and Victoria.

Proceedings at higher courts therefore include criminal, civil, divorce, and bankruptcy proceedings. Separate details of all except civil proceedings are given in the following paragraphs.

Criminal proceedings

The statistics in the following tables are influenced by the factors listed in the second paragraph at the beginning of this chapter.

PERSONS CONVICTED(a) AT HIGHER COURTS: BY NATURE OF OFFENCE, 1974

| Offence | N.S.W. | Vic. | Qld(b) | S.A. | W.A. | Tas. | N.T. | A.C.T. |
|---|-------------|------|--------|------|------|------|------|------------------|
| Against the perso — | | | | | | | | |
| Murder | 28 | | 11 | 8 | 6 | 1 | 4 | |
| Attempted murder | 5 | | 10 | | 2 | | 7 | |
| Manslaughter(c) | 67 | | 17 | 6 | 26 | 8 | 1 | |
| Culpable driving | 59 | | 12 | 3 | 5 | | 3 | 3 2 2 5 |
| Rape | 69 | | 35 | 17 | 23 | 6 | 10 | 2 |
| Other offences against females | 2 66 | | 121 | 87 | 12 | 35 | 8 | 5 |
| Abduction | 8 | | 6 | | 1 | 1 | | |
| Unnatural offences | 62 | | 20 | 4 | 3 | 12 | 4 | |
| Abortion and attempt to procure . | 3 | | | | | | | |
| Bigamy | 12 | | | 1 | 2 | | | |
| Malicious wounding and aggravated | | | | | | | | |
| assault | 260 | | 107 | 38 | 28 | 7 | 13 | 7 |
| Common assault | 79 | | 6 | 14 | | 12 | | 2 |
| Other offences against the person . | 3 | | 12 | 42 | 7 | 20 | 7 | • • |
| Total, against the person | 921 | n.a. | 368 | 220 | 115 | 102 | 57 | 21 |
| Against property— | | | | | | | | |
| Burglary, breaking and entering . | 1.041 | | 748 | 367 | 101 | 97 | 78 | 31 |
| Robbery and stealing from the person | 308 | | 69 | 40 | 48 | 58 | . 5 | 17 |
| Embezzlement and larceny by servants | 194 | | 6 | 18 | žĭ | | 3 | |
| Other larceny(d) | 670 | | 64 | 56 | 49 | | 9 | . 8 |
| Receiving | 216 | | 245 | 15 | 7 | ż | ĺ | Ğ |
| Fraud and false pretences | 150 | | (e)23 | 31 | 14 | 17 | | 3 |
| Arson | 36 | | 29 | 7 | ii | 6 | 'n | 3 2 |
| Malicious damage | 28 | | 23 | 11 | - i | ž | | - - |
| Other offences against property | Ĭ | | 2 | 3 | Ž | | 1 | 3 |
| Total, against property | 2,644 | n.a. | 1,211 | 548 | 254 | 185 | 98 | 70 |
| Forgery and offences against the currency | 46 | | | 16 | 4 | 9 | 5 | 1 |
| Against good order | 89 | | 2 | 39 | | | 3 | |
| Other | 94 | | 29 | 83 | 63 | 16 | 11 | 2 |
| Grand total | 3,794 | n.a. | 1,610 | 906 | 436 | 312 | 174 | 94 |

⁽a) A person convicted on several counts at the one hearing is classified according to the most serious offence and is included only once. (b) Year ended 30 June. (c) Includes causing death by dangerous driving. (d) Includes unlawfully using vehicles. (e) Includes forgery and uttering.

PERSONS CONVICTED(a) AT HIGHER COURTS

| State or Territory | | 1970 | 1971 | 1972 | 1973 | 1974 |
|-------------------------|-------|-------|-------|--------|-------|-------|
| New South Wales . | | 3,804 | 4,024 | 4,359 | 4,088 | 3,794 |
| Victoria | | 1,752 | 1,805 | 1,817 | n.a. | n.a. |
| Queensland(b) . | | 1,402 | 1,720 | 1,758 | 1,812 | 1,610 |
| South Australia . | | 694 | 931 | 964 | 982 | 906 |
| Western Australia | | 693 | 755 | 662 | 357 | 436 |
| Tasmania | | 337 | 401 | 324 | 325 | 312 |
| Northern Territory | | 87 | 114 | 140 | 205 | 174 |
| Australian Capital Terr | itory | 96 | 94 | 121 | 121 | 94 |
| Australia . | | 8,865 | 9,844 | 10,145 | n.a. | n.a. |
| | | | | | | |

(a) See footnote (a) in table above.

(b) Year ended 30 June.

Capital punishment

There were no executions in Australia in 1974. For a brief account of the law relating to capital punishment in Australia, see Year Book No. 55, page 573.

Bankruptcy

For a description of the provisions of the Bankruptcy Act 1966, see Year Book No. 55, pages 586-7. The Bankruptcy Act was amended in 1970 to remove any obstacle the Act may present to the operation of compositions or schemes of arrangement entered into under State or Territory legislation providing assistance to farmers in respect of their debts.

Bankruptcy proceedings

The following table shows the number of bankruptcies of the various types in each State, together with the disclosed assets and liabilities of the debtors.

BANKRUPTCY PROCEEDINGS, 1974-75

| State or Territ | ory | | Sequestration orders and orders for dministration of deceased debtors' estates | Compositions | Deeds of assignment | Deeds of arrangement | Total |
|-----------------|-----------------|----------|--|--------------|------------------------|-------------------------|------------|
| | Number | <u> </u> | 520 | 14 | 36 | 11 | 581 |
| N.S.W.(a) | . < Liabilities | \$ | 10,636,443 | 424,497 | 9,269,239 | 186,879 | 20,517,058 |
| ` ` | Assets | \$ | 4,150,282 | 282,980 | 1,692,646 | 247,033 | 6,372,941 |
| | Number | | 408 | 22 | 40 | 31 | 501 |
| Vic. | . < Liabilities | \$ | 4,943,920 | 401,476 | 3,647,926 | 1,168,862 | 10,162,184 |
| | Assets | \$ | 1,444,378 | 480,935 | 1,471,085 | 729,283 | 4,125,681 |
| | Number | | 291 | 6 | 18 | 6 | 321 |
| Qld . | . < Liabilities | \$ | 6,502,546 | 133,442 | 1,257,825 | 522,552 | 8,416,365 |
| | (Assets | \$ | 3,868,164 | 59,753 | 962,739 | 319,736 | 5,210,392 |
| | Number | | 427 | 3 | 4 | 3 | 437 |
| S.A | . { Liabilities | Ş | 3,304,232 | 222,396 | 410,729 | 172,453 | 4,109,810 |
| | Assets | \$ | 1,580,680 | 111,595 | 455,285 | 151,557 | 2,299,117 |
| | Number | • | 336 | 17 | 28 | 26 | 407 |
| W.A. | . { Liabilities | \$ | 7,627,004 | 486,944 | 1,136,331 | 640,234 | 9,890,513 |
| | (Assets | \$ | 1,508,189 | 117,595 | 467,935 | 506,159 | 2,599,878 |
| | Number | : | 75 | . 1 | 2 | 3 | 81 |
| Tas | . { Liabilities | \$ | 636,348 | 24,515 | 53,844 | 50,605 | 765,312 |
| | Assets | \$ | 279,786 | 16,602 | 79,810 | 79,903 | 456,101 |
| | Number | : | 4 | | | • • | 4 |
| N.T | . { Liabilities | \$ | 137,890 | | • • | • • | 137,890 |
| | Assets | \$ | 697,034 | | • • | • • | 697,034 |
| | Number | | 2,061 | 63 | 128 | 80 | 2,332 |
| Australia | . { Liabilities | \$ | 33,788,383 | 1,693,270 | 15,775,894 | 2,741,585 | 53,999,132 |
| | Assets | \$ | 13,528,513 | 1,069,460 | 5,129,500 | 2,033,671 | 21,761,144 |

BANKRUPTCY PROCEEDINGS: AUSTRALIA

| Year | | Sequestration orders and orders for administration of deceased debtors' estates | Compositions | Deeds of assignment | Deeds of arrangement | Total |
|---------|----------------------|---|--------------|------------------------|-------------------------|--------|
| | (Number | 2,428 | 64 | 152 | 139 | 2,783 |
| 1970-71 | . Liabilities \$'000 | 21,259 | 849 | 3,976 | 4,681 | 30,765 |
| | Assets \$'000 | 8,868 | 286 | 2,947 | 5,199 | 17,300 |
| | Number | 2,684 | 64 | 153 | 135 | 3,036 |
| 1971-72 | . Liabilities \$'000 | 29,669 | 1,036 | 6,298 | 3,943 | 40,946 |
| | Assets \$'000 | 10,243 | 684 | 3,377 | 3,540 | 17,844 |
| | Number | 2,254 | 71 | 160 | 88 | 2,573 |
| 1972-73 | . Liabilities \$'000 | 18,508 | 1,591 | 4,630 | 2,701 | 27,430 |
| | Assets \$'000 | 9,231 | 1,290 | 2,804 | 2,133 | 15,458 |
| | Number | 1,637 | 54 | 110 | 63 | 1,864 |
| 1973-74 | . Liabilities \$'000 | 17,194 | 1,196 | 3,569 | 2,280 | 24,241 |
| | Assets \$'000 | 5,970 | 646 | 2,364 | 1,307 | 10,288 |
| | Number | 2,061 | 63 | 128 | 80 | 2,332 |
| 1974-75 | . Liabilities \$'000 | 33,788 | 1,693 | 15,776 | 2,742 | 53,999 |
| | Assets \$'000 | | 1,069 | 5,129 | 2,034 | 21,761 |

The High Court of Australia

The High Court of Australia consists of a Chief Justice and six other Justices. Its principal seat is in Sydney, but sittings are held in every State capital as occasion requires. The High Court has both original and appellate jurisdiction. Its original jurisdiction is usually exercised by a single Justice, appellate jurisdiction by at least three Justices. The following table sets out transactions in its original and appellate jurisdiction for 1974 and 1975.

TRANSACTIONS OF THE HIGH COURT OF AUSTRALIA, 1974 AND 1975

| Original jurisdiction(a) | | 1974 | 1975 | Appellate jurisdiction | 1974 | 1975 |
|------------------------------|-------|------------|----------|------------------------|------------|------|
| Number of writs issued | | 131 | 189 | Number of appeals— | | |
| Number of causes entered for | r | | | Set down for hearing | 128 | 115 |
| trial | | 28 | 31 | Allowed | 33 | 22 |
| Judgments for plaintiffs | | 7 | 10 | Dismissed | <i>5</i> 8 | 37 |
| Judgments for defendants | | 5 | 4 | Otherwise disposed of | 22 | 21 |
| Otherwise disposed of . | | 18 | 16 | • | | |
| Amounts of judgments | . \$2 | 12,800 \$1 | ,806,486 | | | |

⁽a) Some matters dealt with by the High Court neither originate as writs nor are entered as causes.

During 1974 and 1975, respectively, the High Court dealt also with the following: appeals from assessments under the Taxation Assessments Act, 12, 22; taxation appeals remitted to Supreme Court, nil, 1; special cases stated for the opinion of the Full Court, 7, 15; applications for prohibition, etc., 26, 16. The fees collected amounted to \$17,414 in 1974 and \$18,978 in 1975.

Selected crime reported to Police

The following tables show some details of certain categories of offences reported or becoming known to police. This series, which commenced in 1964, is derived from police records and is based, as far as possible, on definitions and procedural arrangements uniformly determined for all States. During 1973 there were minor changes to the collection procedures and some offence definitions which means that 1973–74 statistics are not strictly comparable with the statistics of previous years. The following explanations are necessary in order to interpret the statistics in this series.

Offences reported or becoming known. All incidents reported or becoming known to the police which are found to constitute offences within the scope of the crimes covered are included. Offences are shown as 'reported or becoming known' in the period during which it has been established that the incident constitutes a crime, not necessarily in the period when the incident occurred. However, the incident is included when the police are satisfied that a crime has been committed, even though it may be established in subsequent proceedings that no crime or a crime of a different nature was committed. As far as possible, the offences are recorded in respect of the State in which the incident occurred, regardless of which police force undertakes investigations or prosecutions, or where an arrest is made. In the case of homicide, assault, robbery, and rape, one offence is counted in respect of each victim, regardless of the number of offenders involved. In the case of breaking and entering, and fraud, etc., one offence is counted for each act or series of directly related acts occurring at the same time and place, and under the same circumstances. Each motor vehicle stolen is counted as constituting a separate offence. Attempted crimes are counted as offences in the appropriate offence category except for attempted murder which is shown separately.

Offences cleared. An offence of the type included in this series is counted as 'cleared' when an information (charge, arrest or summons to appear) has been laid against at least one person involved, for the purpose of bringing an offender before court. However, an offence may also be counted as 'cleared' without an information being laid. This may occur when the offender has received an official caution or has died, has committed suicide, has been committed to a mental institution, or is in another jurisdiction from which extradition is not desired or available, or is serving a sentence; or if there are other obstacles to prosecution, such as diplomatic immunity or that the complainant refuses to prosecute. A clearance is always shown against the classification under which the offence was 'reported', regardless of the nature of the charge laid or changes in the description of an offence due to later information. The entries are made in respect of the year when the offence was 'cleared', whether or not the offence was 'reported' in that or an earlier year.

Persons involved in crimes cleared. This is the sum of the number of persons dealt with in each of the offences shown as 'cleared'. If more than one person is involved in the one offence, each person is counted. If the same person is involved in more than one offence cleared, he is counted separately for each offence. Persons involved are shown against the categories of offences to which an incident was originally allocated, regardless of the actual offences they are charged with. This basis of counting 'persons involved in offences cleared' was adopted to reveal trends in crime participation by persons in various age-groups. The statistics in this series are not directly comparable with statistics of persons charged or convicted in court, or of cases brought before the courts; nor do these statistics reveal the number of offenders in the community.

Offences included in the statistics

Homicide. Separate details are provided for murder, attempted murder (i.e. acts done with intent to murder) and manslaughter (unlawful killing other than murder, and from July 1973 includes manslaughter arising from motor traffic accidents).

Serious assault. This is unlawful attack by one person upon another for the purpose of inflicting severe bodily injury, usually accompanied by the use of a weapon or other means likely to produce death or great bodily harm. Excludes attempted murder, robbery, sexual offences and offences where bodily injury results from negligent acts or omissions. Uniform interpretation of this definition between States is especially difficult to effect.

Robbery. Includes situations where the offender uses or threatens to use violence, either immediately before, during or after the time of stealing, to any person or property in order to obtain the thing stolen, or to prevent or overcome resistance to its being stolen. Includes attempts of this nature.

Rape. Includes attempted rape and assault with intent to rape. Excludes unlawful carnal knowledge (i.e. where consent is given, but the girl is below the legal age of consent) and indecent assault.

Breaking and entering. Breaking and entering a building (or entering a building and breaking out) and committing or intending to commit a crime. Includes burglaries. Separate details are shown according to the type of building involved, namely, dwellings (including all premises normally used for dwelling purposes whether occupied or not, such as the residential parts of hotels, hostels, schools, colleges, clubs and similar institutions; excludes caravans on wheels, tents, etc.); shops (including kiosks, service stations, restaurants, bars, non-residential clubs, etc.); and other buildings (including parts of buildings, but excluding dwellings and shops used for such purposes) regardless of the value of the property involved.

Motor vehicle thefts, illegal use, etc. Includes all offences of illegal, unlawful or unauthorised use, use without consent, unlawfully assuming control, etc., no matter under which legislation these offences are prescribed. Includes cases where the vehicle is not actually driven away. Excludes cases of 'interference', but includes attempts at illegal use. The number of stolen motor vehicles which are recovered is also shown.

Fraud, forgery, false pretences. Includes all types of fraud, forgery, uttering, falsification of records, false pretences, secret commissions, imposition, fraudulent dealings in goods subject to hire purchase, obtaining credit by fraud, and offences involving false claims, deception, trickery, cheating or breaches of trust. Also included is embezzlement, fraudulent misappropriation, fraudulent conversion and stealing by a bailee, servant or trustee etc. Forgery and or uttering of bank notes is excluded. Separate details are shown for valueless cheque offences (i.e. passing of valueless cheques, whether there is no account, insufficient funds or a false signature of the purported drawer of the cheque. However, this sub-group excludes cases where a genuine cheque is altered or the endorsement of the payee is forged. These cases are regarded as forgery and or uttering and included in 'other').

Offences reported or becoming known to police

The following table shows, for each State and Territory, the number of offences in each of the seven categories covered by this series which were reported or became known to police. The table includes offences reported to and investigated by the Commonwealth Police.

| SELECTED | CRIME | REPORTED | OR | BECOMING | KNOWN | TO | POLICE: |
|----------|-------|----------|----|----------|-------|----|---------|
| | | NUMBER | OF | OFFENCES | | | |

| Category of cri | ime | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|--------|---------|-----|----------------------------|-------------------------------|-------------------------|-------------------------|-------------------------|---------------------|-------------------|-------------------|-------------------------------|
| Homicide— 1971–72 . 1972–73 . 1973–74(a) | : | | : | 131 142 252 | 110 122 137 | 44 76 130 | 35 23 45 | 33 29 62 | 13 18 9 | 10 9 14 | 4 6 4 | 380 425 653 |
| Serious assault 1971-72 . 1972-73 . 1973-74 . | (b)— | • | | 828 877 886 | 2,712 (b)1,942 (b)1,491 | 224 289 178 | 126 172 168 | 157 112 168 | 21 11 22 | 131 73 64 | 36 40 41 | 4,235 (b)3,516 (b)3,018 |
| Robbery— 1971-72 . 1972-73 . 1973-74 . | | : | : | 1,608 1,457 1,369 | 877 872 891 | 213 302 294 | 187 182 262 | 112 89 130 | 48 51 46 | 33 24 20 | 21 19 22 | 3,099 2,996 3,034 |
| Rape— 1971-72 . 1972-73 . 1973-74 . | : | : | : | 184 206 295 | 181 181 209 | 72 88 66 | 61 46 101 | 33 31 31 | 24 16 17 | 16 15 25 | 6 8 9 | 577 591 753 |
| Breaking and e lings, shops, e 1971-72 . 1972-73 . | | | | 46,873 42,292 | 38,148 34,988 | 14,333 13,627 | 12,109 12,172 | 8,025 9,631 | 3,060 2,742 | 875 734 | 633 861 | 124,056 117,047 |
| 1973-74 . Motor vehicle 1971-72 . | theft, | , etc.– | - : | 39,832 | 32,888 12,370 | 13,999 4,549 | 13,352 2,990 | 11,563 3,975 | 2,324 1,208 | 1,055 368 | 1,236 349 | 116,249 46,921 |
| 1972-73 . 1973-74 . Fraud, forgery | etc. | _ : | : | 18,847 20,103 | 11,057 10,953 | 4,739 5,016 | 3,380 4,172 | 4,338 5,214 | 1,148 1,084 | 593 677 | 412 598 | 44,514 47,817 |
| 1971-72 . 1972-73 . 1973-74 . | : | : | : | 13,459 12,565 13,915 | 8,686 7,898 7,889 | 6,573 4,796 5,586 | 3,488 3,810 5,964 | 2,619 2,670 2,489 | 843 1,100 777 | 248 358 280 | 293 472 426 | 36,209 33,669 37,326 |
| | | | | | | | | | | | | |

⁽a) For 1973-74, manslaughter includes manslaughter arising from motor traffic accidents. (b) Statistics not comparable with earlier years because of changes in interpretation and collection procedures in Victoria.

Crimes cleared and persons involved

The tables which follow show, for the various categories of offences, the numbers of offences reported, the numbers cleared, and the numbers of persons involved according to age and sex. Sub-divisions of the categories homicide, breaking and entering, and fraud, etc., are provided. See pages 476-7 for definitions used and the bases on which these statistics are prepared.

HOMICIDE: CRIMES REPORTED OR BECOMING KNOWN, CRIMES CLEARED AND PERSONS INVOLVED, AUSTRALIA

| | Murde | r | | Attemp | ied mur | der | Mansle | ughter | | All homi | icide | |
|--|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-------------------|--------------------|----------------------|-----------------------|-----------------------|-----------------------|
| | 1971- 72 | 1972- 73 | 1973- 74 | 1971- 72 | 1972- 73 | 1973- 74 | 1971- 72 | 1972- 73 | 1973- 74 | 1971- 72 | 1972- 73 | 1973- 74 |
| Numbers reported or becoming known. Numbers cleared. Persons involved in crimes cleared— | 175 168 | 220 202 | 226 209 | 157 141 | 151 135 | 161 151 | 48 47 | 54 50 | 266 260 | 380 356 | 425 387 | 653 620 |
| Aged(b)— 16 years and under 17 and 18 years . 19 and 20 years . 21 years and over | 10 12 8 162 | 7 12 11 212 | 8 22 23 176 | 5 9 - 33 135 | 5 10 13 119 | 3 13 15 107 | 4 4 8 36 | 1 10 5 46 | 6 21 37 187 | 19 25 49 333 | 13 32 29 377 | 17 56 75 470 |
| Total persons involved . | 192 | 242 | 229 | 182 | 147 | 138 | 52 | 62 | (c)265 | (d)426 | (d)451 (| c)(d)632 |

⁽a) From July 1973 includes manslaughter arising from motor traffic accidents. (b) Age last birthday at time o clearance. (c) Includes 14 persons involved in driving offences occasioning death not included in age distribution. (d) Includes 49 females in 1971-72, 54 in 1972-73 and 51 in 1973-74.

SERIOUS ASSAULT, ROBBERY, RAPE: CRIMES REPORTED OR BECOMING KNOWN CRIMES CLEARED, AND PERSONS INVOLVED, AUSTRALIA

| | Serious a | ssault | | Robbery | | | Rape | | |
|-------------------------------------|-----------|----------|----------|----------|----------|----------|---------|---------|---------|
| | 1971-72 | 1972-73 | 1973-74 | 1971-72 | 1972-73 | 1973-74 | 1971–72 | 1972-73 | 1973-74 |
| Numbers reported or becoming | | | | | | | | | |
| known | 4,235 | 3,516 | 3,018 | 3,099 | 2,996 | 3,034 | 577 | 591 | 753 |
| Numbers cleared | 3,237 | 2,632 | 2,029 | 914 | 861 | 800 | 400 | 422 | 418 |
| Persons involved in crimes cleared— | -, | _, | _, | | | | | | |
| Aged(a)— | | | | | | | | | |
| 16 years and under | 470 | 268 | 225 | 278 | 307 | 192 | 48 | 49 | 73 |
| 17 and 18 years | 629 | 419 | 311 | 339 | 313 | 254 | 128 | 93 | 91 |
| 19 and 20 years | 522 | 376 | 262 | 288 | 270 | 199 | 87 | 107 | 92 |
| 21 years and over | 2,337 | 2,038 | 1,311 | 750 | 683 | 416 | 258 | 309 | 237 |
| Total persons involved . | (b)3,958 | (b)3,101 | (b)2,109 | (c)1,655 | (c)1,573 | (c)1,061 | 521 | 558 | 493 |

⁽a) Age last birthday at time of clearance. (b) Includes 77 females in 1971-72, 148 in 1972-73 and 136 in 1973-74.

BREAKING AND ENTERING(a): CRIMES REPORTED OR BECOMING KNOWN, CRIMES CLEARED, AND PERSONS INVOLVED, AUSTRALIA

| | Dwelli | ngs | | Shops | | | Other | buildings | | Total | | |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1971- 72 | 1972- 73 | 1973- 74 |
| Numbers reported or | | | | | | | | | | | | |
| becoming known . | 58,311 | 57,372 | 60,071 | 27,054 | 22,964 | 22,708 | 30.217 | 29,190 | 33,470 | 124,056 | 117,047 | 116,249 |
| Numbers cleared . | 11,246 | 11,049 | 12,246 | 6,721 | 5,798 | 5,741 | 5,259 | 5,105 | 5,366 | 24,113 | 22,757 | 23,353 |
| Persons involved in crimes cleared(b)— | | | | | • | • | | • | | | | |
| Aged | | | | | | | | | | | | |
| 16 years and under | 10.514 | 10.025 | 4,249 | 5.316 | 4,713 | 2,503 | 5.173 | 5,454 | 2,841 | 21.003 | 20,192 | 9,593 |
| 17 and 18 years . | | 2,409 | 1.137 | 2.018 | 1,822 | 1.017 | 1,216 | 1,098 | 595 | 5,452 | 5.329 | 2,749 |
| 19 and 20 years . | 1,129 | 1,277 | 487 | 1.377 | 972 | 555 | 776 | 613 | 366 | 3,282 | 2,862 | 1,408 |
| 21 years and over | 3,713 | 3,146 | 1,185 | 3,154 | 2,374 | 1,251 | 2,108 | 1,669 | 844 | 8,975 | 7,189 | 3,280 |
| Total persons | | | | | | | | | | | | |
| | 17,574 | 16,857 | 7.058 | 11,865 | 9,881 | 5,326 | 9,273 | 8,834 | 4,646 (| c)40,053 (| c)36,839 | (c)17,030 |

⁽a) Attempts in N.S.W. in 1971-72 and 1972-73 are included in totals only.
(b) A change in collection procedures affected the numbers in 1973-74.
(c) Includes 1,047 females in 1971-72, 1,106 in 1972-73 and 661 in 1973-74.

MOTOR VEHICLE THEFT, ETC., FRAUD, ETC.: CRIMES REPORTED OR BECOMING KNOWN, CRIMES CLEARED, AND PERSONS INVOLVED, AUSTRALIA

| | 1/ | vehicle | | Fraud, | forgery, | false p | retences | | | | | |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|----------------------------|----------------------------|-------------------------------|---------------------------------|----------------------------|
| | thest, | | | Valuel | ess chequ | es | Other | | | All fra | ud, etc. | |
| | 1971- 72 | 1972- 73 | 1973- 74 | 1971- 72 | 1972- 73 | 1973- 74 | 1971- 72 | 1972- 73 | 1973- 74 | 1971- 72 | 1972 73 | -1973 - 74 |
| Numbers reported or becoming known . Numbers cleared . Persons involved in crimes cleared— | 46,921 11,389 | | 47,814 n.a. | 12,848 7,783 | 11,671 7,603 | | | 20,871 14,421 | 27,960 18,831 | | 33,669 22,024 | |
| Males aged(a)— 16 years and under 17 and 18 years 19 and 20 years 21 years and over | 8,889 4,629 1,956 3,308 | 8,188 4,001 1,726 2,717 | 4,788 2,460 1,067 1,731 | 132 284 563 6,027 | 183 324 505 5,586 | 83 96 129 1,418 | 510 689 844 10,135 | 462 714 624 7,780 | 355 405 365 3,126 | 642 973 1,407 16,162 | 645 1,038 1,129 13,366 | 438 501 494 4,544 |
| Total males | 18,782 | 16,632 | 10,046 | 7,006 | 6,598 | 1,726 | 12,178 | 9,580 | 4,251 | 19,184 | 16,178 | 5,977 |
| Females aged(a)— 16 years and under . 17 and 18 years . 19 and 20 years . 21 years and over . | 309 100 43 87 | 245 91 30 60 | 199 61 19 39 | 67 50 117 968 | 29 38 76 1,012 | 12 29 29 210 | 313 521 349 3,104 | 208 359 420 3,479 | 109 144 135 812 | 380 571 466 4,072 | 237 397 496 4,491 | 121 173 164 1,022 |
| Total semales . | 539 | 426 | 318 | 1,202 | 1,155 | 280 | 4,287 | 4,466 | 1,200 | 5,489 | 5,621 | 1,480 |
| Total persons involved | 19,321 | 17,058 | 10,364 | 8,208 | 7,753 | 2,006 | 16,465 | 14,046 | 5,451 | 24,673 | 21,799 | 7.457 |

⁽a) Age last birthday at time of clearance.

The number of stolen motor vehicles recovered was: 1971-72, 43,967; 1972-73, 41,150; 1973-74, 41,830.

Drug offences

Australia is a signatory to the Single Convention of Narcotic Drugs which has as its main aim the limitation of narcotic drugs to legitimate medical and research purposes.

As its name implies, the Single Convention covers only the so-called narcotic drugs. In recognition that there are other drugs of dependence, the member nations met during 1970 and 1971 and drew up a further Convention to impose controls on psychotropic substances such as hallucinogens, amphetamines, other central nervous system stimulants, barbiturates, tranquillisers and certain other sedatives.

Legislative provisions

Regulation 5 of the Customs (Prohibited Imports) Regulations made under Section 50 of the Customs Act 1901 provides the legal controls for the importation of narcotic drugs and other drugs of dependence. Under this regulation all importers of these drugs must be licensed and must obtain permission in writing for each importation. Importers are also required to keep these drugs in a secure place and to keep such records as may be required concerning use or disposal.

The penalty on conviction for an offence relating to narcotic goods as defined in the Customs Act 1901 is:

- (a) In a Court of Summary Jurisdiction—
 - A fine not exceeding \$2,000 or imprisonment for a period not exceeding 2 years, or both.
- (b) On indictment-

A fine not exceeding \$4,000 or imprisonment for a period not exceeding 10 years, or both.

The manufacture of narcotic drugs in Australia is controlled under the Narcotic Drugs Act 1967. The Act requires that a manufacturer shall be licensed and shall comply with strict conditions and directions relating to such manufacture and the handling of the drugs concerned. Failure to comply with these requirements constitutes an offence against the Act and the penalty upon conviction for such an offence is:

- (a) In a Court of Summary Jurisdiction-
 - A fine not exceeding \$1,000 or imprisonment for a period not exceeding 2 years, or both.
- (b) On indictment—

A fine not exceeding \$4,000 or imprisonment for a period not exceeding 10 years, or both.

State and Territory legislation relating to the regulation, control and prohibition of the sale, use, possession and administering (including smoking) of poisons, restricted substances, drugs of addiction, dangerous drugs and deleterious substances, is listed below.

New South Wales . . . Poisons Act, 1966–1975; Summary Offences Act, 1970

Victoria Poisons Act 1962

Queensland . . . The Health Acts 1937 to 1974

South Australia . . . Narcotic and Psychotropic Drugs Act, 1934–74 (formerly Dangerous Drugs Act, 1934–1955); Food

and Health Act, 1908-1962; Police Offences Act, 1953-1961

1903-1901

Western Australia . . . Police Act, 1892-1967; Poisons Act 1964

dency Act 1968; Health Services Act 1960; Poisons

Act 1971

Northern Territory . . . Dangerous Drugs Ordinance 1928; Poison Ordinance

1924

Australian Capital Territory . Poisons, Dangerous Drugs and Public Health Ordinances

1933

In some States this legislation also provides for the offence of 'trafficking' (where there is possession of a minimum specified quantity of a prescribed substance, prohibited drug, or drug of addiction, such possession being *prima facie* for the offence), and for the offence of being the owner, lessee, or concerned in the management of any premises used for the purposes of drug abuse such as the smoking of opium or indian hemp. Offences of habitually consorting, etc., with reputed drug offenders are also covered under State legislation.

Since 1970 some States have introduced legislation requiring that stocks of dangerous drugs in pharmacies be stored in heavy metal safes.

All State Governments have agreed to a uniform code of penalties based on those applicable in Commonwealth Government legislation. Some State Governments have already taken the legislative action to implement this decision.

Law enforcement

Law enforcement in respect of drugs is handled by State police forces, the Commonwealth Police Force and the Department of Business and Consumer Affairs. In 1969 a National Standing Control Committee on Drugs of Dependence was established to consider further action by the Commonwealth and States to combat all aspects of the drug problem in Australia and to make recommendations on legislation and administrative action. The Committee is chaired by the Secretary of the Department of Business and Consumer Affairs. The Department administers the Australian Narcotics Bureau and has responsibility for the enforcement of laws controlling importation and exporting of drugs. Membership of the Committee is comprised of senior officers of the Commonwealth and State police and health authorities. Its Deputy Chairman is the Director-General of the Australian Department of Health.

The National Standing Control Committee on Drugs of Dependence recommended that the Australia Crime Intelligence Centre (formerly known as the Central Crime Intelligence Bureau) of the Commonwealth Police Force serve as the national agency for the systematic collection, collation, evaluation and dissemination of information concerning the illicit drug traffic in Australia. During 1974, the fifth complete year for which the Australia Crime Intelligence Centre compiled statistics, 9,179 drug offences, for which 4,850 male and 720 females were prosecuted, were reported to the Centre. Details of the offences and drugs involved are given in the following tables.

DRUG OFFENCES

PROSECUTIONS AND CONVICTIONS FOR DRUG OFFENCES REPORTED TO THE AUSTRALIAN CRIME INTELLIGENCE CENTRE (COMMONWEALTH POLICE): PERSONS INVOLVED, AUSTRALIA 1974

| Ana (venera) | Number of i | Number of individual charges | | | imposed Amount | Gaol No. | sentences Months | Number of bonds granted | Number of charges not pro- ceeded with or | Number oj charges |
|-------------------------------|-------------------|---------------------------------------|-------------------|------------|-------------------------|-------------|---------------------|-------------------------------|--|-------------------------|
| Age (years) | oyenuers — | charges | charges | No. | POSSESSI | | Wonins | (a) | dismissed | pending |
| Males aged— | | | | AWIOL | | | | | | |
| 16 and under . 17 and 18 . | 132 715 | 141 785 | 45 339 | 21 249 | 1,930 59,508 | · . | 38 | 20 76 | 10 26 | 86 420 |
| 19 and 20 . | 1,023 | 1,136 | 560 | 441 | 112,625 | 41 | 394 | 70 | 19 | 557 |
| 21 22 and over . | 338 1,563 | 445 1,795 | 219 848 | 164 625 | 39,622 170,248 | 25 74 | 312 650 | 32 108 | 5 30 | 221 917 |
| Total males . | 3,771 | 4,302 | 2,011 | 1,500 | 383,933 | 145 | 1,394 | 306 | 90 | 2,201 |
| Females aged— | | | | | | | | | | |
| 16 and under . | 38 | 45 | 12 | 3 | 350 | •: | · ; | .6 | 5 | 28 |
| 17 and 18 . 19 and 20 . | 112 155 | 123 175 | 50 81 | 35 58 | 8,330 13,845 | 1 2 | 12 | 17 17 | 5 6 | 68 88 |
| 21 | 43 | 47 | 20 | 13 | 2,800 | 1 | 3 | 5 | 1 | 26 |
| 22 and over . Total females | 169 <i>517</i> | 190 <i>580</i> | 79 242 | 48 157 | 10,895 <i>36,220</i> | 2 6 | 5 23 | 25 70 | 12 29 | 99 <i>309</i> |
| | | | | | | | | | | |
| | | | UN | LAV/FUI | LIMPORT | rs | | | | |
| Males aged— 16 and under . | | | | • | • | | | | | |
| 17 and 18 . | [4 | 4 | į | į | 300 | i | | | | 3 |
| 19 and 20 . | 16 11 | 19 11 | 8 5 | 3 | 450 750 | 1 | 6 | 1 | 1 1 | 10 5 |
| 22 and over . | 102 | 113 | 46 | 29 | 11,229 | iż | 392 | 3 | Ī | 66 |
| Total males . | 133 | 147 | 60 | 37 | 12,729 | 13 | 398 | 4 | 3 | 84 |
| Females aged— | 4 | | | | | | | | | • |
| 16 and under . 17 and 18 . | 1 3 | 1 3 | 'i | i | 400 | • • | | | :: | 1 2 |
| 19 and 20 . | 8 | 8 | 1 | 1 | 500 | | | | | 2 7 |
| 21 22 and over . | 22 | 2 23 | 1 8 | 1 5 | 150 1,450 | • • | | · ; | | 1 15 |
| Total females | 36 | 37 | 11 | 8 | 2,500 | •• | | 3 | | 26 |
| | | | τ | INLAWF | UL USE | | | | | |
| Males aged— | | | | | | | | | | |
| 16 and under . 17 and 18 . | 120 483 | 122 521 | 36 143 | 10 101 | 775 11,275 | ·. | żi | 23 34 | 5 20 | 81 358 |
| 19 and 20 . | 594 | 643 | 246 | 178 | 24,700 | 18 | 114 | 44 | 19 | 378 |
| 21 22 and over . | 203 624 | 219 673 | 88 24 9 | 68 176 | 9,030 22,965 | 9 17 | 48 74 | 9 42 | 4 15 | 12 7 409 |
| Total males . | 2,024 | 2,178 | 762 | 533 | 68,745 | 48 | 257 | 152 | 63 | 1,353 |
| Females aged— | -, | -, | | | | | | | | |
| 16 and under . | 49 | 50 | 12 | 1 | 40 | | | 6 | 7 | 31 |
| 17 and 18 . 19 and 20 . | 73 84 | 88 92 | 22 43 | 10 28 | 1,182 2,985 | 1 2 | 6 6 | 13 15 | 5 3 | 61 46 |
| 21 | 24 | 26 | 8 | 5 | 255 | | | 2 | .4 | 18 |
| 22 and over . | 73 | 77 | 27 | 16 | 1,980 | 2 | 18 | 8 | | 46 |
| Total females | 303 | 333 | 112 | 60 | 6,442 | 5 | 30 | 44 | 19 | 202 |
| | | | | THE | FT | | | | | |
| Males aged— | | | | | | | | - | | |
| 16 and under . 17 and 18 . | 1 22 | 1 29 | i i | 'i | 30 | ż | ģò | ii | • | 1 15 |
| 19 and 20 | 36 | 45 | 17 | 3 | 400 | 5 | 85 | 4 | i | 27 |
| 21 | 17 61 | 33 73 | 8 23 | 1 5 | 80 530 | 5 | 132 140 | 3 11 | ·i | 25 49 |
| Total males . | 137 | 181 | 62 | 10 | 1,040 | 18 | 447 | 29 | 2 | 117 |
| emales aged— | | | | | | | | | | |
| 16 and under . | 2 5 | 2 | • 4 | ż | 414 | ٠: | ** | | • • | 2 |
| 17 and 18 , 19 and 20 . | | | 3 | | 240 | | 30 | | • • • | |
| 21 | 3 9 | 3 | | | | | | 1 | | 3 5 |
| Total females | 19 | 11 23 | 6 9 | <i>5</i> | 450 <i>690</i> | 1 2 | 3 33 | 3 4 | | 3 14 |
| | | | , | | | | 33 | | | |

PROSECUTIONS AND CONVICTIONS FOR DRUG OFFENCES REPORTED TO THE AUSTRALIAN CRIME INTELLIGENCE CENTRE (COMMONWEALTH POLICE): PERSONS INVOLVED, AUSTRALIA 1974—continued

| Age (years) | Number of offenders | Numher of individual charges | Con- victions on individual charges | Fines No. | imposed Amount \$ | Gaol No. | sentences Months | Number of bonds granted (a) | Number of charges not pro- ceeded with or dismissed | Number of charges pending |
|--|-------------------------------|---------------------------------------|---|----------------------------|---|-------------------------|------------------------------|--------------------------------------|---|------------------------------------|
| | | | | TRAFFI | CKING | | | | | |
| Males aged— 16 and under 17 and 18 19 and 20 21 22 and over | 21 66, 96 46 152 | 22 75 127 64 171 | 6 25 49 38 36 | 3 12 11 8 14 | 228 2,945 3,119 1,900 4,250 | 1 4 16 11 | 6 61 210 104 105 | 3 4 7 2 8 | 2 8 2 | 14 42 76 26 134 |
| Total males . | 381 | 459 | 154 | 48 | 12,442 | 43 | 486 | 24 | 13 | 292 |
| Females aged— 16 and under . 17 and 18 . 19 and 20 . 21 . 22 and over . Total females | 2 6 10 2 16 | 2 7 11 2 18 | 1 1 5 4 | 5 1 | 1,100 750 1,850 | i | 3 | 1 1 2 | 'i | 1 5 6 2 14 28 |
| | | | | THER O | FFENCES | | | | | |
| | | | | THER O | FFENCES | | | | | |
| Males aged— 16 and under 17 and 18 19 and 20 21 22 and over Total males | 21 113 170 93 279 | 22 122 193 109 354 | 8 50 88 40 141 327 | 2 42 72 36 109 | 200 5.235 13,580 7,135 24,283 | 2 6 1 15 | 9 72 6 69 | 5 6 8 3 12 | 1 2 2 1 6 | 13 70 103 68 207 |
| Females aged— 16 and under . 17 and 18 . 19 and 20 . 21 22 and over . Total females | 6 12 18 13 33 | 6 12 21 16 44 | 3 5 9 9 18 | 2 5 4 9 | 200 810 540 1,110 | .; 1 .; 2 1 | iż i7 24 | 3 2 1 2 2 2 | 1 1 3 | 2 6 9 7 26 |
| | | | | | | | | | | |
| | | | то | TAL OF | FENCES | | | | | |
| Total males . | 7,122 | 8,067 | 3,376 | 2,389 | 529,322 | 291 | 3,138 | 549 | 183 | 4,508 |
| Total females | 993 | 1,112 | 429 | 256 | 50,362 | 18 | 142 | 135 | 54 | 629 |
| Total persons | 8,115 | 9,179 | 3,805 | 2,645 | 579,684 | 309 | 3,280 | 684 | 237 | 5,137 |

⁽a) Bonds include suspended gaol sentences and/or other recognisances to be of good behaviour for a specific time.

DRUG OFFENCES

NUMBER OF CHARGES INVOLVING SPECIFIC DRUG TYPES(a), 1974 (Source: Australian Crime Intelligence Centre (Commonwealth Police))

| Type of drug | | | Possess | Import | Use admin- ister | Traffic | Steal | False pre- tences | Forge pre- scription | Other | Total | Per- centage of drug group |
|--------------------------------|--------|----------|--------------|----------|---|---------|---------|-------------------------|----------------------------|----------|--------------|--|
| Narcotics— | | | | | | | | · | | | | |
| Cocaine . | | | . 21 | 2 | 13 | 2 | 8 | | | 1 | 47 | 4.07 |
| Codeine . | | | . 1 | | | | 1 | | | | 2 | 0.17 |
| Palfium . | | | | | 32 | 2 | 6 | 29 | 60 | 3 | 141 | 12.22 |
| Physeptone | • | • | . 22 | · . | 21 | 33 | 3 | 9 | 23 | .4 | 115 | 9.97 |
| Morphine Opium . | • | • | . 97 . 24 | 4 | 102 12 | 7 | 95 5 | 4 | 1 | 16 | 324 45 | 28.08 3.73 |
| Opium (prepa | ration | (ż | : 4 | ī | 3 | • • | | • • | • • | • • | 8 | 0.69 |
| Pethidine | | • | . 25 | | 30 | 4 | 36 | 14 | 4 | | 118 | 10.23 |
| Omnopon | | | . 6 | | 4 | | 2 | | 1 | 3 | 16 | 1.39 |
| Fortral . | • | | | 44 | 1 | 14 | 4 | 1 | • • | :: | 227 | 0.62 |
| Heroin . Etorphine | • | • | . 153 | 27 | 94 | 40 | 4 | • • | • • | 11 | 329 1 | 28.34 0.08 |
| Fentanyl | • | • | : i | | | | • • • | | • • | • • | i | 0.08 |
| Codeine hydro | ocodo | ne ne | | • • • | • | | i | | | | i | 0.08 |
| Dilaudid | | | . 2 | | | | | | | | 2 | 0.17 |
| Phenadoxone | | | | | | 1 | | | | | 1 | 0.08 |
| Total | • | | . 367 | 36 | 312 | 89 | 165 | 57 | 89 | 43 | 1,158 | 100.00 |
| Cannabis— | | | | | | | | | | | | |
| Plants . | | | . 203 | :: | 1 | | | | | 92 | 296 | 4.12 |
| Seeds . Marihuana | • | • | . 101 | 10 99 | 1,938 | 331 | ż | • • | | 5 486 | 118 6,528 | 1.64 90.98 |
| Hashish . | • | • . | . 3,672 | 39 | 1,936 | 331 | | | • • • | 480 | 188 | 2.62 |
| Cannabinol | : | : | . 15 | 2 | í | ź | | | | ž | 23 | 0.32 |
| Liquid hash | | | . 17 | 2 | 3 | 1 | | | | • • | 23 | 0.32 |
| Total | | | . 4,125 | 152 | 1,964 | 342 | 2 | | | 591 | 7,176 | 100.00 |
| Amphetamines- | - | | | | | | | | | | | |
| Amphetamine | | | . 17 | 2 | 14 | 3 | | | | 2 | 38 | 64.42 |
| Dexamphetan | | | . 1 | | | | | | | | 1 | 1.70 |
| Methylamphe Methylphenid | | ; | . 5 . 1 | • • | 4 | • • • | • • | | • • | • • | 5 5 | 15.26 1.70 |
| Phenmetrazin | | | . 5 | | - | • • | | • • | | • • | 5 | 8.46 |
| Ponderax | | | | | 2 | ż | | :: | | i | 5 | 8.46 |
| Total | | | . 29 | 2 | 20 | 5 | | | | 3 | 59 | 100.00 |
| Barbiturates/hyp | notics | _ | | | | | | | | | | |
| Mandrax | | | . 44 | | 15 | 6 . | 5 | 1 | 2 | 1 | 74 | 71.16 |
| Amylobarbito | | | . 2 | | | 1 | | | | | 3 | 2.89 |
| Butobarbitone | | | . 1 | | | 3 | • • | | | • • | 1 20 | 0.97 |
| Pentobarbiton Quinalbarbito | | • | . 1 | • • | | | 3 1 | • • | • • | • • | 20 | 18.35 1.93 |
| Nitrazepam | | : | : .: | • • • | :: | • • | i | | | • • | ī | 0.97 |
| Other . | | | . 1 | | | 1 | | | 1 | | 3 | 3.73 |
| Total | | | . 58 | | 20 | 11 | 10 | 1 | 3 | 1 | 104 | 100.00 |
| Tranquilisers | | | | | | | | | | | | |
| Valium . | | | . 15 | | 1 | | 10 | 1 | 4 | | 31 | 91.18 |
| Other . | | | . 3 | | • • | | | | | | 3 | 8.82 |
| Total | • | | . 18 | •• | 1 | | 10 | 1 | 4 | • • | 34 | 100.00 |
| Hallucinogens— | | | | | | | | | | | | |
| L.S.D. | | | . 100 | 5 | 66 | 27 | | | | 2 | 200 | 81.30 |
| Psilocybine Mescaline | • | • | . 31 | • • | 11 2 | • • • | | • • | • • | • • | 42 3 | 17.08 1.22 |
| Mescaline Other . | • | | : 1 | | | • • • | • • | • • | | • • | 1 | 0.40 |
| Total | | | . 133 | 5 | 79 | 27 | | | | 2 | 246 | 100.00 |
| Other total | | | . 172 | 2 | 15 | 24 | 40 | 3 | 9 | 23 | 288 | |
| Grand total | • | | 4.001 | 197 | 2,410 | 497 | 227 | 62 | 105 | 663 | 9,065 | |
| Percentage | • | • | . 4,902 | 2.16 | 26.60 | 5.50 | 2.50 | | 1.16 | 7.31 | 100.00 | |
| e ercentuge | • | • | . 34.08 | 2.10 | 20.00 | 3.30 | 2.30 | 0.69 | 1.10 | 7.51 | 100.00 | • • • |

⁽a) If a number of different drug types are involved in an offence, they are counted under each drug category.

In 1969, the Commonwealth Bureau of Narcotics was created as part of the Government's campaign to combat the increasing incidence of illicit trafficking of drugs in Australia. Now known as the Australian Narcotics Bureau and operating under the Bureau of Customs from within the Department of Business and Consumer Affairs, it is made up of three sections:

Treaties and Secretariat Section—responsible for ensuring that Australia's obligations as a signatory to the various international conventions on drugs are complied with.

International Enforcement and Liaison—responsible for maintaining an effective system for the exchange of information with overseas law enforcement agencies concerned with the suppression of illicit trafficking in drugs.

National Enforcement—responsible for the prevention of, and investigations into, illegal importation, exportation, and major trafficking of drugs. Its activities are concentrated in co-ordinated operations against importers and major distributors.

The following table shows the types of drugs and amounts seized by the Bureau of Customs (previously the Department of Customs and Excise) in recent years.

| DRUG | SEIZURES | RV | THE | RUPEAU | OF | CUSTOMS |
|------|-----------------|----|------|--------|----|---------|
| DKUG | SEIZURES | DІ | 1111 | DUKEAU | OF | COSTOMS |

| Type of drug | | | | | Unit | | 1971 | 1972 | 1973 | 1974 | 1975 |
|--------------|----|---|---|---|-------------|----------|---------|---------|-----------|---------|---------|
| Amphetamine | s. | | | | gram . | | 18 | 79 | 50 | 655 | 165 |
| | | | | | tablet . | | 1,421 | 493 | 127 | | |
| Barbiturates | | | | | gram . | | 22 | 37 | | 172 | 262 |
| | | | | - | tablet . | | 287 | 1,050 | 265 | | |
| Cannabis | | | | | gram . | | 178,654 | 541,929 | 1,107,189 | 287,506 | 885,476 |
| Cannabis oil | • | | · | Ċ | gram . | | | | .,, | 4,809 | 32,859 |
| Cocaine . | • | | | | gram . | Ċ | 4 | 198 | 121 | 47 | 338 |
| Cocamo . | • | • | • | • | tablet . | | 9 | | | | • • • |
| L.S.D | | | | | dosage unit | • | 21,676 | 69,863 | 23,442 | 5,505 | 9,131 |
| Narcotics | | | | | | | | | | | |
| Opium. | | | | | gram . | <u>:</u> | 6,094 | 2,746 | 3,020 | 5,700 | 4,861 |
| Heroin | | | | | gram . | | 2,468 | 2,018 | 3,116 | 5,079 | 5,938 |
| Morphine | • | · | | : | gram . | Ċ | 31 | 158 | 1,536 | 279 | 863 |
| | • | • | • | • | ampoule | : | 6 | 16 | 2 | | |
| | | | | | tablet . | • | 2 | | _ | | |
| Pethidine | | | | | tablet/ampo | wla | 6 | 43 | 51 | • • | • • |
| 1 Childine | • | • | • | • | tablet/ampe | uic | U | 43 | 31 | • • | • • |

The number of offenders charged with drug offences by the Bureau of Customs and the sentences imposed are given in the following table. Particulars of all drug offences in 1974 reported to the Australian Crime Intelligence Centre are shown in the table on pages 481–2.

PROSECUTIONS AND CONVICTIONS UNDER THE CUSTOMS ACT AND THE NARCOTIC DRUGS ACT FOR OFFENCES INVOLVING DRUGS OF DEPENDENCE

(Source: Bureau of Customs)

| Offense | | | | Number of | Number of indi- vidual | Con- victions on indi- vidual | Fine | osed | | ences | Number of bonds granted | Number of charges not pro- ceeded with or dis- | without con- | Number of charges |
|--------------------------------------|------|-------------|-----|--------------------------------|---------------------------------|---|----------------------------|---|----------------------------|-----------------------------------|----------------------------------|--|---------------------------------------|----------------------------|
| Offence of | una | vear | | offenders | charges | charges | NO. | Amount | NG. | Months | (a) | missed | viction | pending |
| Unlawful | 1 pc | ssessi | on— | | | | | \$ | | | | | | |
| 1971 1972 1973 1974 1975 | : | : : : | : | 53 85 37 85 189 | 56 89 39 89 199 | 31 63 36 63 136 | 13 46 31 46 65 | 2,870 13,275 9,780 12,275 28,695 | 14 14 4 14 29 | 266 220 69 220 984 | 4 2 1 2 42 | 12 9 2 9 14 | · · · · · · · · · · · · · · · · · · · | 13 18 1 18 49 |
| Unlawful | lim | port— | - | | | | | | ., | 100 | • | • | | |
| 1971 1972 1973 1974 1975 | | : | : | 74 105 112 105 134 | 78 116 115 116 149 | 60 86 97 86 106 | 41 46 58 46 50 | 11,005 13,207 14,258 13,207 8,175 | 16 34 20 34 36 | 188 694 220 694 1,039 | 3 5 9 5 20 | 2 6 10 6 7 | 2 | 16 23 18 23 34 |
| Other off | fenc | es | | | | | | | | | | | | |
| 1971 1972 1973 1974 1975 | | : | : | 15 48 24 48 52 | 15 56 26 56 63 | 10 25 16 25 38 | 6 15 11 15 23 | 3,950 3,675 2,850 3,675 6,200 | 4 6 3 6 11 | 88 102 48 102 582 | 5 2 5 4 | i6 5 16 7 | | 5 14 5 14 18 |

⁽a) Bonds include suspended gaol sentences and/or other recognisances to be of good behaviour for a specified period. Note. Where dual penalties such as a fine and a bond were imposed both are included.

POLICE 485

Police

The primary duties of the police are to prevent crime, to detect and detain offenders, to protect life and property, to enforce the law, and to maintain peace and good order. In addition, they perform many duties in the service of the State, e.g. they act as clerks of petty sessions in small centres, as crown land bailiffs, foresters, mining wardens, and inspectors under the fisheries and various other Acts. In metropolitan and large country areas they also regulate the street traffic. With the exception of the Commonwealth Police Force and the police in the Northern Territory and the Australian Capital Territory, the police forces of Australia are under the control of the State Governments, but their members perform certain functions for the Commonwealth Government, such as acting as aliens registration officers and concurrently with Commonwealth Police and other Commonwealth Officers, policing various Commonwealth Acts and Regulations.

Women police perform special duties at places where young women and girls are subject to moral danger, control traffic at school crossings and lecture school children on road safety. They also assist male police as required in the performance of normal police duties.

The strength of the police force and the duties and ranks of the personnel involved in each State and Territory for 1974 are shown in the following table. Comparability between States is affected by differences in the classification of ranks and duties, and known differences between States are mentioned in footnotes.

Also included in the table are statistics of ancillary and civilian staff employed by police departments. Differences between States in the use of such staff are considerable. These differences arise, on the one hand, from differences in the extent to which police make use of such staff for police functions and, on the other hand, in the extent to which such staff are required to undertake additional functions (such as parking control) which are allocated to the police in varying degrees between States. There is also some overlap between duties of ancillary and civilian staff as defined in the footnotes to the table.

POLICE FORCES AND ASSISTANT STAFF, 30 JUNE 1974

| Duty and rank(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. |
|---|--------------|--------------|-----------------|-----------|-----------|-----------|----------|-----------|
| | | POI | LICE FOR | CES | · - | | | |
| Criminal investigations, plain clothes police, scientific duties— | | | | | | | | |
| Executive officers | 4 | 3 | 1 | 3 | 3 | 1 | | 2 |
| Inspectors | 23 | 37 | 9 | 7 | 6 | 6 | 1 | 2 |
| Sergeants | 384 | 78 | 156 | 55 | 97 | 41 | 13 | 14 |
| Constables(b) | 907 | 693 | (c)352 | 268 | 187 | 90 | 33 | 34 |
| Total, criminal investi- | | | | | | | | |
| gations, etc | 1,318 | 811 | (c)518 | 333 | 293 | 138 | 47 | 52 |
| Traffic duties— | | | | | | | | |
| Executive officers | 3 | 4 | 1 | 2 | 1 | 1 | | |
| Inspectors | 6 | 14 | 4 | 4 | 7 | 4 | | 1 |
| Sergeants | 219 | 26 | 51 | 23 | 46 | _8 | 3 | 16 |
| Constables(b) | 780 | 496 | (c)129 | 216 | 204 | 93 | 14 | 85 |
| Total, traffic duties . | 1,008 | 540 | (c)(d)185 | 245 | 258 | 106 | 17 | 102 |
| Other special and general duties- | _ | | | | | | | |
| Executive officers | 30 | 44 | 6 | 17 | 13 | 5 | 3 | |
| Inspectors | 176 | 173 | 75 | 44 | 25 | 37 | 10 | 15 |
| Sergeants | 1,306 | 283 | 677 | 182 | 294 | 92 | 56 | 50 |
| Constables(b) | 3,979 | 3,685 | (c)1,863 | 1,384 | 961 | 430 | 220 | 221 |
| Total, other special, etc. | 5,491 | 4,185 | (c)2,621 | 1,627 | (e)1,293 | 564 | (/)289 | (/)286 |
| Not allocated— | | | | | | | | |
| Executive officers whose | | | | | | | | |
| duties extend beyond one | • | - | | | | | • | |
| branch | 8 | 5 | 5 | 4 | 4 | 1 | 2 | • • |
| Inspectors | 113 | 218 | (g) | 8Ò | 37 | 24 | `6 | iò |
| Trainees and cadets | 261 | 122 | 441 | 432 | 99 | 106 | | 74 |
| Total, not allocated . | 382 | 345 | 446 | 516 | 140 | 131 | | 84 |
| i otai, not allocated . | 382 | 343 | 440 | 210 | 140 | 131 | • | 04 |
| Total police force— | | | | | | _ | _ | _ |
| Executive officers | 45 | 56 | 13 | 26 | 21 | . 8 | .5 | . 2 |
| Inspectors | 205 | 224 | 88 | 55 260 | 38 437 | 47 141 | 11 72 | 18 80 |
| Sergeants | 1,909 | 387 | 884 (c)2,129 | 1.868 | 1.352 | 613 | 267 | 80 340 |
| Constables(b) | 5,666 113 | 4,874 218 | 215 | 1,808 | 37 | 24 | 6 | 10 |
| Trainees and cadets | 261 | 122 | 441 | 432 | 99 | 106 | | 74 |
| | | | 3.770 | 2,721 | 1,984 | 939 | 361 | 524 |
| Total police force . | 8,199 | 5,881 | 3,770 | 2,721 | 1,904 | 939 | 301 | 324 |

For footnotes see next page.

POLICE FORCES AND ASSISTANT STAFF, 30 JUNE 1974-continued

| Duty and rank(a) | | | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T |
|------------------|--------|----------|---------------------|---------------------------|-----------------------------|---|---|---------------------------------------|--|
| _ | | ANCI | LLARY A | ND CIV | LIAN ST | AFF | | | |
| - | art- | | | | | | | | |
| - | | 281 | 142 | 34 | 212 | | 1 | 37 | |
| | | | 4 | • • | 2 | 173 | | | • |
| | | (j)1,579 | 1,097 | 554 | 127 | (k)317 | 175 | 41 | 6 |
| · | • | | 78 | 33 | | 74 | | ••• | |
| | | | тот | AL STA | FF | | | | |
| | | 10,059 | 7,120 | 4,358 | 3,060 | 2,301 | 1,115 | 439 | 58: |
| | - : | : : | Depart 281 (j)1,579 | ANCILLARY A Depart- 281 | ANCILLARY AND CIVI Depart- | ANCILLARY AND CIVILIAN ST Depart- 281 142 34 212 4 2 (j)1,579 1,097 554 127 | ANCILLARY AND CIVILIAN STAFF Depart- 281 142 34 212 | ANCILLARY AND CIVILIAN STAFF Depart- | ANCILLARY AND CIVILIAN STAFF Depart- 281 142 34 212 1 37 4 2 173 (j)1,579 1,097 554 127 (k)317 175 41 78 33 8 74 |

⁽a) Where more than one duty is involved, officers have been allocated to the category of duties in which the greater part of their time is spent. The allocation of executive officers and inspectors to categories of duties is necessarily somewhat arbitrary and varies from State to State. (b) Includes probationary constables. (c) Excludes probationary constables; included with trainees and cadets. (d) Metropolitan area only. Traffic duties outside Brisbane metropolitan area are performed by general duties police. (e) Includes officers engaged on motor vehicle examination and testing and licensing drivers. (f) Does not include transport and maintenance; each section undertakes its own transport, and maintenance is done on contract and/or by the government transport pool. (g) For Queensland police women are included in the personnel figures for each rank of the respective duties. (h) Parking police, native trackers, wardresses, etc.; special constables in New South Wales and Tasmania; police reservists in Victoria. (i) Clerks, typists, artisans, cleaners, cleaners, and Deputy Commissioner in Tasmania. (j) Does not include cleaning which is done by the Cleaning Services Branch of the Government Stores Department. (k) Includes 79 cadets whose appointment is not subject to the Police Act.

Ancillary and civilian staff are excluded from the following table.

POLICE FORCES

| 30 June- | - | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|----------|---|--------|-------|-------|-------|-------|------|------|--------|--------|
| 1970 . | | 7,324 | 4,739 | 3,221 | 2,282 | 1,529 | 701 | 235 | 290 | 20,321 |
| 1971 . | | 7,470 | 4,945 | 3,197 | 2,360 | 1,616 | 796 | 259 | 347 | 20,990 |
| 1972 . | | 7,914 | 5,274 | 3,353 | 2,445 | 1,686 | 879 | 281 | 398 | 22,230 |
| 1973 . | | 8.044 | 5,510 | 3,518 | 2,562 | 1,807 | 892 | 318 | 435 | 23,086 |
| 1974 . | | 8,199 | 5,881 | 3,770 | 2,721 | 1,984 | 939 | 361 | 524 | 24,379 |

Commonwealth Police Force

The Commonwealth Police Force commenced operations on 21 April 1960, and is the principal agency for the enforcement of the laws passed by the Commonwealth Parliament. It is also responsible for the protection of Commonwealth Government property and interests at various buildings and establishments under the control of the Commonwealth Government. This force co-ordinates the work of other investigation and law enforcement agencies and acts on behalf of the United Nations Organisation for the suppressing of traffic in women and the suppression of obscene literature.

Under the control of the force is the Australian Police College at Manly, New South Wales, which provides training for officers of various police forces and other agencies in Australia and New Zealand. The force has its Head Office in Canberra and District Offices in each capital city. The establishment of the force at 30 June 1974 was 1114. At that date there were, in addition, 122 civilian employees.

Prisons

Prisons

At 30th June 1974 there were 90 prisons in Australia, comprising 29 in New South Wales, 13 in Victoria, 10 in Queensland, 16 in South Australia, 18 in Western Australia, 1 in Tasmania, and 3 in the Northern Territory. There is no gaol in the Australian Capital Territory, but there are two lock-ups attached to police stations at Canberra and another lock-up at Jervis Bay, where offenders are held for short periods. Prisoners remanded or sentenced by a court in the Australian Capital Territory for more than five days are usually held in New South Wales prisons.

Convicted prisoners

CONVICTED PRISONERS

| | | | | | | | | | Australia | |
|--------|----------|---------------|-------|-------|------|-------|------|------|-----------|-------------------------------------|
| 30 Jui | ne— | N.S.W. (a) | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Number | Per 10,000 of popu- lation |
| 1970 | <u>.</u> | 3,429 | 2,178 | 1,104 | 836 | 1,174 | 327 | 198 | 9,246 | 7.4 |
| 1971 | | 3,493 | 2,276 | 1,142 | 854 | 1,261 | 352 | 166 | 9,544 | 7.5 |
| 1972 | | 3,641 | 2,192 | 1,313 | 816 | 1,269 | 339 | 252 | 9,822 | 7.6 |
| 1973 | | 3,399 | 2,096 | 1,414 | 675 | 1,105 | 332 | 282 | 9,303 | 7.0 |
| 1974 | | 2,696 | 1.568 | 1,224 | 665 | 915 | 346 | 144 | 7,558 | 5.7 |

(a) Includes Australian Capital Territory prisoners held in New South Wales prisons.

Expenditure on law, order and public safety

Expenditure on law, order and public safety

The following table shows the identifiable expenditure on goods and services of Commonwealth Government and State public authorities whose activites are primarily directed towards serving the purposes of law, order and public safety. Because of differing legislative and administrative arrangements and differing accounting practices in the various States, the activities covered by the figures are not the same in each State; and the activities covered by the Commonwealth Government figures differ from those of the States because of the Commonwealth Government's different responsibilities in this field. The Commonwealth Government and State figures are therefore not strictly comparable; but they have been compiled by uniform methods, and each series is comparable from year to year.

ALL PUBLIC AUTHORITIES: EXPENDITURE ON LAW, ORDER AND PUBLIC SAFETY
(\$ million)

| | | | | (4 111111011) | | | | |
|--------------------------|-------|------|------|---------------|---------|---------|-------------|---------|
| | | | | 1970–71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
| Final consumption expe | ndit | ure— | | | | | | |
| Federal Authorities | | | | 24.1 | 30.0 | 37.1 | 49.4 | 75.6 |
| State Authorities— | | | | | | | | |
| New South Wales | | | | 94.5 | 111.2 | 125.5 | 154.2 | 204.0 |
| Victoria | | | | 53.2 | 62.2 | 72.2 | 88.9 | 122.4 |
| Queensland . | | | | 40.3 | 43.2 | 54.0 | 66.1 | 93.8 |
| South Australia | | | | 18.8 | 22.7 | 27.4 | 35.2 | 49.8 |
| Western Australia | | | | 22.0 | 28.2 | 31.6 | 38.6 | 56.4 |
| Tasmania . | | • | • | 8.6 | 10.5 | 12.7 | 15.1 | 22.7 |
| Total States . | | | | 237.4 | 278.1 | 323.5 | 398.1 | 549.1 |
| Total current exp | endit | ure | | 261.5 | 308.1 | 360.6 | 447.5 | 624.7 |
| Gross fixed capital expe | nditu | ле— | | | | | | |
| Federal Authorities | | | | 2.0 | 2.6 | 2.9 | 3.2 | 7.2 |
| State Authorities— | | | | | | | | |
| New South Wales | | | | 8.6 | 8.7 | 12.6 | 9.7 | 14.0 |
| Victoria | | | | 3.8 | 5.0 | 5.8 | 8.4 | 8.4 |
| Oueensland . | | | | 4.3 | 6.6 | 7.4 | 8.9 | 9.1 |
| South Australia | | | | 2.4 | 3.1 | 3.2 | 4.2 | 4.1 |
| Western Australia | - | | | 3.0 | 1.7 | 2.9 | 3.1 | 5.6 |
| Tasmania . | | | | 1.8 | 2.3 | 2.8 | 5.0 | 5.2 |
| Total States . | | | | 23.9 | 27.4 | 34.8 | <i>39.3</i> | 46.4 |
| Total capital exp | endit | ure | | 25.9 | 30.0 | 37.7 | 42.5 | 53.6 |
| Total expenditure | ٠. | | | 287.4 | 338.1 | 398.3 | 490.0 | 678.3 |

Fire brigades

New South Wales

A Board of Fire Commissioners, consisting of seven members, two appointed by the State Government (President and Deputy President), two representing insurance companies and one each representing, local government authorities, volunteer firemen, and permanent fireman, is constituted under the Fire Brigades Act, 1909, and controls the public services for the prevention and extinguishing of fires. Its jurisdiction extends over the Sydney Metropolitan area and cities and towns in the rest of the State. The cost of maintenance of fire brigades is borne in proportions of one-eighth each by local councils and the Government, and three-quarters by insurance companies.

At 31 December 1975 the actual strength of the Fire Brigade throughout the 174 fire districts of New South Wales was 479 officers and 1,357 permanent and 2,765 volunteer firemen. Corresponding figures for the Sydney Fire District were 401, 1,229 and 179. The revenue for the year 1975 was \$31,191,000, as follows: from the Government, \$3,720,000; municipalities and shires, \$3,721,000; fire insurance companies and firms, \$22,277,000; and from other sources, \$1,473,000. The disbursements for the year were \$30,798,000. The Board of Fire Commissioners formerly provided fire protection services for Canberra, in the Australian Capital Territory, and the cost of these services was reimbursed by the Commonwealth Government. From January 1976 these activities are carried out by the A.C.T. Fire Brigade.

Under the Bush Fires Act, 1949 a Bush Fire Fighting Fund exists from which finance is provided by the Government, insurance companies, and certain local government councils for the prevention, detection, control and suppression of bush fires in the Eastern and Central Divisions of the State. At 30 June 1975 Volunteer Brigades equipped by means of this fund numbered about 2,500 with an active membership of approximately 60,000 persons. Expenditure from the Fund for the purchase of fire fighting units, plant running expenses, and maintenance and repairs for the year ended 30 June 1975 was \$1,935,000.

Victoria

In Victoria, fire brigades are controlled by the Metropolitan Fire Brigades Board consisting of eight members, including an employees' representative, and the Country Fire Authority consisting of twelve members.

Metropolitan Fire Brigades Board. The Metropolitan Fire Brigades Board receives contributions from the municipalities, the insurance companies and the State Government in the proportion of one-eighth, three-quarters and one-eighth respectively. At 30 June 1975 the Board had under its control 47 stations, 1,396 permanent staff, and 283 special service and clerical, etc., staff. The total receipts for 1974-75 were \$21,627,214, comprising contributions \$19,196,210, receipts for services \$1,622,905, and interest and sundries \$808,099. The expenditure was \$21,298,961.

Country Fire Authority. This authority is responsible for the prevention and suppression of fires in the 'country area of Victoria', which embraces the whole of the State outside the Metropolitan Fire District, excluding State forests, National Parks and certain Crown lands. The country area has been divided into twenty-five fire control regions, three of which (Ballarat, Bendigo and Geelong) are wholly urban and the remainder mixed urban and rural. The Country Fire Authority receives contibutions in the proportion of two-thirds from insurance companies and one-third from the Treasury. At 30 June 1975 the Country Fire Authority Act applied to 155 insurance companies and 215 urban and 1,062 rural fire brigades. Permanent staff of the Authority totalled 398 (including administrative), while the effective strength of volunteer personnel was 118,283. Income for the year 1974–75 amounted to \$8,975,495. Total expenditure other than loan redemption and capital expenditure amounted to \$8,809,333.

Oucensland

There are two controlling bodies responsible for fire fighting services throughout Queensland. The State Fire Services Council controls brigades set up under *The Fire Brigades Act*, 1964 to 1973, and the Rural Fires Board under provisions of *The Rural Fires Act*, 1946 to 1975 administers bush fire brigades. In addition a local authority may establish a fire fighting brigade of its own as do some major establishments such as the State Forestry Department and private companies whose activities involve fire hazards.

Fire districts are constituted under *The Fire Brigades Act*, 1964 to 1973. For each district, there must be a Fire Brigades Board consisting of seven members, and the cost of maintenance of each brigade is borne by the State Government, the component local authorities and the contributory insurance companies and owners of property (which is insured with a company other than a contributory company) in the proportions of one-eighth each by the State Government and the component local authorities, and three-quarters by the contributory companies and owners of property referred to.

At 30 June 1975 there were 81 fire brigade boards. The number of stations was 194 and the brigade strength was 1,422 permanent staff and 1,314 auxiliary and 32 volunteer staff. The total revenue for the year 1974—75 was \$18,171,794 received mainly from the following sources: Government \$2,193,102 local authorities \$2,174,550, insurance companies \$13,202,660. Loan receipts (Government and other) were \$1,457,708. The total expenditure for the year was \$17,989,874, which included administration and working expenses, etc., \$16,644,135, interest and redemption \$901,682 and other expenditure \$444,057.

The Rural Fires Board, operating under the Rural Fires Act 1946 to 1975, consists of a chairman and nine members all of whom are appointed by the Governor-in-Council. Eight of the members are from Government Departments, the other represents the United Graziers Association. For administrative purposes the State is divided into Rural Fire Districts under the control of a Chief Fire Warden, and in these districts fire wardens are appointed to assigned areas. These officers control the issuing of permits, reporting of fire hazards and education in fire protection, while the bush fire brigades operate on a voluntary basis under the control of an appointed first officer. At 30 June 1975 there were 1,250 bush fire brigades. Expenditure by the State Government including contributions by bush fire brigades for equipment during 1974–75 amounted to \$296,761.

South Australia

The Fire Brigades Act, 1936 provides for a board of five members, that the expenses and maintenance of brigades are defrayed in the proportion of one-eighth by the Treasury, three-quarters by insurance companies and one-eighth by the municipalities concerned. At 30 June 1975 there were altogether 39 fire brigades stations, of which 17 were metropolitan and 22 country.

The strength of the permanent staff at 30 June 1975 was 695, comprising 501 officers and men, 119 country auxiliary firemen and 75 other employees (including maintenance workers). The total revenue for the year 1974-75 was \$6,050,000, made up as follows: insurance companies \$4,537,500, Treasury \$756,250 and municipalities and district councils \$756,250.

Western Australia

The Fire Brigades Act 1942-1972 provides for the constitution of fire districts which are under the control of the Western Australian Fire Brigades Board. There were 74 fire districts at 30 June 1975. The contribution to the Board is made in the proportion of 12½ per cent from the State Government, 12½ per cent from local government authorities, and 75 per cent from insurance companies. The number of local governments authorities and insurance companies who contributed numbered 90 and 155 respectively. Sixteen permanent and two volunteer brigades operate in the metropolitan fire district centred in the City of Perth. Permanent brigade personnel served with volunteer brigade personnel in five large country centres and volunteer brigades provide town fire protection at some 75 other centres. At 30 June 1975 the Board had 725 employees and there were 1,874 volunteer brigade officers and firemen. The revenue for the year ended 30 June 1975 was \$10,656,276 and the expenditure \$10,079,514.

Under the Bush Fires Act, 1954–1973 a Bush Fires Board, consisting of thirteen members, six of whom are nominated by the Country Shire Councils' Association, was set up to advise the Minister for Lands on bush fire control and to administer the Bush Fires Act. The Act also provides for the registration of bush fire control officers, who numbered 2,601 at 30 June 1975, and the establishment of bush fire brigades, 962 at 30 June 1975. Many individual brigades are large organisations with numerous self-contained sections.

Tasmania

The Fire Brigades Act 1945 provided for the creation of the Fire Brigades Commission of Tasmania to co-ordinate the activities of existing fire brigade boards, while leaving the responsibility for individual control and management with the boards. The Commission comprises the following: two persons nominated by the Minister; one person representing the City and Municipal Councils; one person nominated by the Chairman of the Rural Fires Board; three persons representing the insurance companies; and one employees' representative. Contributions towards the cost of operations are on the basis of 22.5 per cent each from the Treasury and the municipalities and 55 per cent from the insurance companies concerned. The distribution made by the Commission to fire brigade boards during 1974–75 was \$3,402,000. There were, at 30 June 1974, 23 boards controlling 40 stations and their aggregate staffs numbered 720 (officers and firemen), comprising 255 permanent personnel, 425 part-time firemen and 40 volunteers. The volunteers all operate under the Hobart Board in the forested and mountainous Fern Tree area.

Following the fire disaster of February 1967, amendments were made to the Rural Fires Act 1950. The 1967 Act brought the separate urban and rural fire services and the State Civil Defence and Emergency Services together under the Chief Secretary. The newly constituted Rural Fires Board, under a chairman appointed by the Governor, consists of 16 members. At 30 June 1975 the Board had a paid staff of 30, headed by the State Fire Control Officer and included six regional fire control officers and assistants. At 30 June 1975 there were 305 rural fire brigades composed of 7850 registered volunteers. The Board's budget in 1973–74 was \$936,000. Half the administrative expenditure is met by insurance companies insuring rural properties, and half by the Government. Grants to councils and workers' compensation and expenditure is borne by the Government, with remaining expenditure being shared proportionately between the Government and municipalities.

Northern Territory

Under the Fire Brigade Ordinance fire brigades in the Northern Territory are under the control of the Administrator in Council. Regular fire stations are maintained for the urban areas of Darwin, Casuarina, Winnellie, Katherine, Tennant Creek and Alice Springs. There are volunteer stations at Batchelor, Adelaide River, Pine Creek, Mataranka and Larrimah. At 30 June 1975 the personnel strength of the regular stations was 114 full-time regulars, 18 part-time auxiliaries and 20 part-time volunteers. Regular stations received 2051 calls of all types during 1975.

Under the Bush Fire Control Ordinance 1965 the regulation of fire-fighting in non-urban areas is the responsibility of a Bush Fire Council which has six regional fire control committees and receives executive assistance from the Forestry Section of the Department of Northern Australia. The Forestry Section also provides some equipment and actual fire-fighting assistance to rural land holders. The Bush Fire Council consists of private and government members and works closely together with the fire brigades.

Australian Capital Territory

The A.C.T. Fire Brigade is administered by the Department of the Capital Territory.

At 31 December 1975 the 4 fire stations in Canberra employed a permanent fire fighting staff of 115. Expenditure during 1974-75 amounted to \$1,577,108, of which \$557,507 was a charge against the Canberra Municipal Account.

The responsibility for prevention and suppression of fires which occur outside the built-up areas of the A.C.T. and Jervis Bay rests with the A.C.T. Bush Fire Council. In 1974–75, expenditure by the council amounted to \$166,956.

Patents, trade marks and designs

Patents

Patents for inventions are granted under the *Patents Act* 1952, which applies to Australia and to the Territory of Norfolk Island. Regulations under the Act provide variable fees for lodgment of applications depending on size of specifications and number of claims. The basic fee for lodging an application and complete specification is \$30. Examination is no longer made automatically following lodgment of an application. The Commissioner may direct an applicant to request examination in which case the examination fee is \$90, or the applicant may request examination of his own accord, in which case the fee is \$120. If examination is not requested within six months after the commissioner's direction or within five years after lodgment of a complete specification, the application lapses.

Continuation fees in respect of patent applications are payable commencing with a fee of \$12 on the expiration of the second year from the date of lodgment of the complete specification and rising to \$100 on the expiration of the fifteenth year from that date. Renewal fees in respect of patents are payable commencing with a fee of \$20 on the expiration of the fourth year from the date of the patent and rising to \$100 on the expiration of the fifteenth year from that date. Continuation fees cease to be payable when a patent has been sealed in respect of an application and renewal fees do not become payable until that time.

COPYRIGHT

PATENTS: AUSTRALIA

| | 1971 | 1972 | 1973 | 1974 | 1975 |
|--|--------|--------|--------|--------|--------|
| Applications Applications accompanied by | 16,407 | 16,165 | 16,460 | 15,950 | 14,082 |
| provisional specifications . | 3,933 | 4,195 | 4,354 | 4,036 | 4,250 |
| Letters patent sealed | 10,641 | 10,920 | 11,670 | 12,828 | 12,161 |

Trade marks and designs

Under the *Trade Marks Act* 1955 the Commissioner of Patents is also Registrar of Trade Marks. Provision is made for the registration of users of trade marks and for their assignment with or without the goodwill of the business concerned. Under the *Designs Act* 1906 the Commissioner of Patents is also Registrar of Designs.

TRADE MARKS AND DESIGNS: AUSTRALIA

| | 1971 | 1972 | 1973 | 1974 | 1975 |
|------|-------|-------------------------|---|--|--|
| | | | | | |
| | 8,866 | 9,204 | 10,026 | 9,209 | 9,046 |
| | 5,710 | 5,012 | 5,665 | 5,303 | 7,087 |
| | | • | • | | |
| | 1,977 | 2,228 | 2,115 | 1,991 | 2,105 |
| | 1,578 | 1,608 | 1,732 | 1,570 | 1,733 |
| | | 8,866 5,710 1,977 | 8.866 9,204 5,710 5,012 1,977 2,228 | 8.866 9,204 10,026 5,710 5,012 5,665 1,977 2,228 2,115 | 8,866 9,204 10,026 9,209 5,710 5,012 5,665 5,303 1,977 2,228 2,115 1,991 |

Copyright

Copyright is regulated by the Commonwealth Copyright Act 1968, which came into force on 1 May 1969. On that date Australia ratified its adherence to the Brussels revision of the Berne Copyright Convention and to the Universal Copyright Convention, whereby citizens of member countries are accorded protection by complying with the convention formality requiring proprietors to place on their works the symbol © together with their name and the year of first publication, in such a manner and location as to give reasonable notice of their claim of copyright in the works so identified. The new legislation contains no provision for the registration of copyright, and the Copyright Office ceased to exist on 1 May 1969. Copyright is now administered by the Attorney-General's Department.

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CHAPTER 16

NATIONAL ACCOUNTS

National accounting aims at providing a systematic summary of the transactions taking place in the economy, especially of those that relate to the production and use of goods and services, and to transfers of income or capital between sectors of the economy.

Estimates of national income and expenditure have been compiled by the Bureau since 1944-45 and have been published annually as papers entitled National Income and Expenditure accompanying the Commonwealth Budgets. Detailed annual estimates of national income and expenditure on a revised basis were published in Australian National Accounts, National Income and Expenditure, 1974-75 (7.1). Preliminary estimates (less detailed) for 1974-75 were published earlier in a Budget Paper. Quarterly estimates are published in Quarterly Estimates of National Income and Expenditure (7.5). A supplement to the December quarter 1975 issue of Quarterly Estimates of National Income and Expenditure (7.10) presented historical quarterly series of gross domestic product and related aggregates at current and constant prices consistent with the 1974-75 Australian National Accounts bulletin.

Australian National Accounts, Gross Product by Industry at Current and Constant Prices, 1962-63 to 1973-74 was published in November 1975. The Bureau also compiles input-output tables for the Australian economy. Preliminary tables for the year 1968-69 were published in Australian National Accounts, Input-Output Tables (Preliminary) 1968-69 (7.9) and the final results will be published in Australian National Accounts, Input-Output Tables 1968-69 (7.11). to be issued in 1977.

The figures shown on pages 498-503 are as published in Australian National Accounts, National Income and Expenditure, 1974-75.

NATIONAL INCOME AND EXPENDITURE

Description of National Income and Expenditure Accounts

A brief description of the conceptual basis of national accounts is given in this section, but for a more detailed treatment of the concepts and structure of the Australian National Accounts reference should be made to Australian National Accounts, National Income and Expenditure, 1974-75.

Definition and relationship of the concepts of product, income and expenditure

The main concepts of product, income and expenditure in the Australian National Accounts are defined and expressed in equivalents as follows.

Gross domestic product is the total market value of goods and services produced in Australia within a given period after deduction of the cost of goods and services used up in the process of production but before deducting allowances for the consumption of fixed capital. Thus gross domestic product, as here defined, is 'at market prices'. It is equivalent to gross national expenditure plus exports of goods and services less imports of goods and services. Gross farm product is that part of gross domestic product which derives from production in rural industries. Gross non-farm product arises from production in all other industries.

Gross domestic product at factor cost is that part of the cost of producing the gross domestic product which consists of gross payments to factors of production (labour, land, capital, and enterprise). It represents the value added by these factors in the process of production and is equivalent to gross domestic product less indirect taxes plus subsidies.

Domestic factor incomes is that part of the value added within a given period by factors of production (labour, land, capital and enterprise) which accrues as income to their suppliers after allowing for the depreciation of fixed capital. It is equivalent to gross domestic product at factor cost less depreciation allowances.

National income is the net income accruing within a given period to Australian residents from their services in supplying factors of production (labour, land, capital and enterprise) in Australia or overseas plus indirect taxes less subsidies. It is equivalent to domestic factor incomes plus indirect taxes less subsidies and net income paid overseas.

National disposable income is the net income accruing within a given period to Australian residents from their services in supplying factors of production, from net indirect taxes and from re-distributive transfers. It is equivalent to national income less net transfers overseas.

Gross national expenditure is the total expenditure within a given period on final goods and services (i.e. excluding goods and services used up during the period in the process of production) bought by Australian residents. It is equivalent to the gross domestic product plus imports of goods and services less exports of goods and services.

Household income is the total income whether in cash or kind, received by persons normally resident in Australia in return for productive activity (such as wages, salaries and supplements, incomes of unincorporated enterprises, etc.) and transfer incomes (such as cash social service benefits, interest, etc.). It includes the imputed interest of life offices and superannuation funds, which is the benefit accruing to policy holders and members from investment income of the funds. It also includes third party motor vehicle and public risk insurance claims paid to persons in respect of policies taken out by enterprises. However, it excludes any income which might be said to accrue to persons in the form of undistributed company income. It also includes any property income received by non-profit organisations such as private schools, churches, charitable organisations, etc.

Framework of accounts and sectors

In the accounts shown in this Year Book four internal institutional sectors are distinguished—corporate trading enterprises (including public trading enterprises), financial enterprises (including the nominal industry), households (including their unincorporated enterprises) and general government. All of these internal sectors engage in production activity, receive and disburse income and accumulate assets. Without distinguishing between internal sectors, their transactions are summarised in three accounts, a domestic production account (Table 1), a national income and outlay account (Table 3) and a national capital account (Table 4). In addition there is an overseas sector having an account (Table 6) which shows a summary of the transactions into which overseas governments, persons and businesses enter with Australian residents. These four accounts form a system which though not detailed is complete in that, in principle, a credit in any account is matched by a debit in some other account. Income and outlay accounts are shown also for each of the four domestic sectors. The national income and outlay account is a consolidation of the income and outlay accounts of the four domestic sectors. The sector income and outlay accounts can together take the place of the national income and outlay account to provide a more detailed system.

The framework of sectors and accounts underlying the form of social accounts shown in this publication is set out in the following diagram. The heavy rectangles depict the minimum system of

ARTICULATION OF AUSTRALIAN NATIONAL ACCOUNTS IV. OVERSEAS TRANSACTIONS I. DOMESTIC PRODUCTION ACCOUNT ACCOUNT Industry (Establishments by kind of economic activity) 1 Manufact- Building |Transport |Commerce|Finance Primary Mining etc. II. NATIONAL INCOME AND OUTLAY ACCOUNT Corporate **Financial** Households trading enterprises enterprises (including General (including the (including public unincorporated government trading no minal enterprises) enterprises) industry) III. NATIONAL CAPITAL ACCOUNT Corporate Financial Households trading enterprises enterprises (including General (including public (including the unincorporated government trading nominal enterprises) enterprises) industry)

PLATE 39

four accounts which represent the consolidated accounts of the nation. The light rectangles represent the accounts for institutional sectors. The sector income and outlay accounts are shown in this Year Book. The sector capital accounts are published in Australian National Accounts, National Income and Expenditure, 1974-75 (Reference 7.1). The sub-division of the domestic production account represents production accounts for establishments classified according to industry. Selected transactions from such production accounts are shown in Reference 7.1 mentioned above, and such production accounts can be developed in detail to produce input-output accounts.

Description of the accounts

The domestic production account is a consolidation of the production accounts of all producers regardless of sector. The production account is shown as receiving revenue from the sale of goods and services to final buyers; all intermediate goods and services are cancelled out, since they represent a cost to one producer to offset the revenue of the other. On the payments side are shown the payments of indirect taxes less subsidies, and, since the account is presented from the point of view of the producing unit, the wages and salaries paid to employees. The balance is the gross operating surplus which may be divided into depreciation allowances and net operating surplus. Depreciation allowances is carried to the national capital account (or the sector capital accounts) and net operating surplus, together with wages and salaries and indirect taxes less subsidies, is carried to the national income and outlay account (or sector income and outlay accounts). In input-output tables, the domestic production account is broken up into accounts for separate industries, and transactions associated with intermediate usage of goods and services are shown in the production accounts for the separate industries.

The national income and outlay account is shown as receiving wages, salaries and supplements, net operating surplus and indirect taxes less subsidies from the domestic production account. From this income are deducted net payments of income and miscellaneous transfers to overseas, and the remainder is the national disposable income. The outlay side of the account shows this disposable income is largely used for final consumption expenditure and the balance is the nation's saving. The national income and outlay account is a consolidation of the sector income and outlay accounts.

The national capital account is a consolidation of the sector capital accounts. It shows on the receipts side depreciation allowances transferred from the domestic production account and saving transferred from the national income and outlay account (or from the sector income and outlay accounts). On the payments side are shown purchases by all sectors of new buildings and capital equipment, the increase in stocks of all sectors and a balance described as net lending to overseas. This concept of net lending to overseas includes increases (and, negatively, decreases) in Australia's overseas monetary reserves. The net lending to overseas is also the balance on current transactions in the overseas transactions account.

The overseas transactions account records all transactions of a current nature between Australian and overseas residents. Although this is an account for the overseas sector, the items are named from the Australian viewpoint. The account shows that Australia's current receipts from overseas consist of the value of (Australia's) exports of goods and services, property income received from overseas and transfers from overseas. These receipts are used for (Australia's) imports of goods and services and payments of property income and transfers to overseas; and the balance of current receipts represents net lending to overseas. Positive net lending to overseas corresponds to a surplus on current transactions with overseas and negative net lending corresponds to a deficit. The transactions in property income shown in this account differ from estimates shown in balance of payments statistics because in the national accounts undistributed company income is not imputed to the beneficial owners. For this reason, also, net lending to overseas differs from the balance on current account shown in balance of payments statistics.

The corporate trading enterprises (including public trading enterprises) income and outlay account is shown as receiving the net operating surpluses of trading enterprise companies and public trading enterprises from the domestic production account and property income (interest, etc. and dividends) from other sectors. This total of receipts is appropriated to various transfer payments (interest, etc. paid, income tax payable, dividends paid, and public enterprise income) and undistributed income which is the saving of the sector. Public trading enterprises are not shown to have any saving. Public enterprise income is here measured by the net operating surplus and the whole amount is transferred to the general government income and outlay account. Also, as property income received and paid by public trading enterprises have not been distinguished from property income received and paid by general government, the interest and dividends shown in this account are only those received and paid by companies.

The financial enterprises (including the nominal industry) income and outlay account is shown receiving net operating surplus from the domestic production account and property income from other sectors. This total of receipts is appropriated to various transfer payments (interest, etc., income tax and dividends) and the saving of the sector consisting of retained income of public financial enterprises and undistributed income of companies. The disbursements shown for the sector include interest on life and superannuation funds imputed to households. This represents earnings accumulated for policy holders and members and is shown as paid to the household income and outlay account where it contributes to household saving.

The households (including unincorporated enterprises) income and outlay account is shown receiving net operating surplus from the domestic production account in respect of unincorporated enterprises and dwellings owned by persons. In order to show the net income from these activities, related interest payments (which could be shown on the disbursements side) are here shown as a deduction from net operating surplus. Wages, salaries and supplements is also received from the domestic production account. In addition to these primary incomes, transfer incomes are received from other sectors (interest, etc., dividends, cash benefits from general government and transfers from overseas). On the disbursements side are shown payments for goods and services for final consumption and transfer payments (consumer debt interest, taxes and transfers overseas). The balance is the saving of the sector which is transferred to the sector capital account.

Household income includes interest on life and superannuation funds but not pensions received from superannuation funds nor claims on life insurance policies. These are treated as capital transactions involving only the exchange of one asset (equity in life insurance and superannuation funds) for another (cash). However, age and invalid pensions paid by general government are included in household income.

Estate and gift duties are treated as current receipts by general government and also as current payments by persons even though the individual payers may regard them as of a capital nature. All personal gifts and transfers to or from overseas are also treated as current. Personal transfers to and from overseas include such items as legacies and migrants' funds, which the persons concerned may think of as of a capital nature.

Net current expenditure on goods and services by non-profit organisations serving persons is included in private final consumption expenditure. Expenditure on buildings (e.g. churches, private schools, clubs) is treated as capital expenditure and excluded from this account.

The general government income and outlay account reflects a distinction between current and capital expenditure, which is necessarily arbitrary in some measure and has been made on the basis of excluding from current outlay expenditure on public works and increase in stocks. Expenditure on public works is taken to include new buildings, construction, plant and machinery and any replacement of assets charged to loan funds or capital works votes. Current outlay excludes all expenditure on roads, because a satisfactory distinction between new works and maintenance cannot be made. All defence expenditure is included in current outlay.

The income from public enterprises shown in this account consists of the income actually transferred to general government by public financial enterprises, and the whole of the income of public trading enterprises as measured by their net operating surplus. The net operating surplus of public trading enterprises is derived by deducting from their gross operating surplus any depreciation shown by these enterprises in their published accounts, except in the case of enterprises which are at present analysed on the basis of cash accounts in which depreciation is not allowed (usually enterprises whose accounts are included in Commonwealth or State public accounts). As in the case of households, all overseas gifts are included in the income and outlay account. These include gifts for international relief, technical assistance, etc., grants, contributions to international organisations and expenditure in connection with the administration of Papua New Guinea.

Estimates at constant prices

For certain kinds of intertemporal comparison, it is desirable to derive measures which attempt to remove the direct effect of price changes during the periods under review. Such estimates, conventionally described as 'at constant prices', are presented in Tables 2 and 5 for gross domestic product, exports and imports of goods and services, and gross national expenditure and its principal components.

In concept, constant price estimates may be thought of as being derived by expressing the value of every component commodity as the product of a price and a quantity, and by substituting for each actual current price the corresponding price in the chosen base year. Aggregates at constant prices for each year are then obtained by summation. In practice, the quality and quantity of the available data are such that a number of other methods are used in the preparation of estimates at constant prices. These estimates involve approximations and assumptions, and this should be borne in mind in the interpretation and use of the results.

Gross domestic product is equivalent to gross national expenditure plus exports of goods and services less imports of goods and services. This relationship has been used in deriving the estimates of gross domestic product at constant prices shown in Table 2. Their sub-division into gross farm product and gross non-farm product has been estimated by deriving gross farm product by the production method (revaluing farm output and farm usage of intermediate goods and services to obtain gross farm product as the difference) and deducting this from total gross domestic product to obtain gross non-farm product.

For a considerable part of private final consumption expenditure and exports and imports of goods and services, it is possible to identify specific units of quantity and price, and revalue the quantities at base year prices. Where it is not possible to express the values in successive years as the product of prices and homogeneous units of quantity, the treatment generally adopted is to divide values by appropriate price indexes.

With the remaining components of gross national expenditure, a greater degree of approximation and assumption is involved. For example, when information about the commodity content of a flow is limited (e.g. various components of gross fixed capital expenditure), special purpose price indexes relating to selected commodities are applied to the expenditure on the full range of commodities they represent. In other cases, for instance, where the expenditure relates to 'unique' goods (e.g. goods not homogeneous from year to year), revaluation is achieved by use of an index reflecting the price change of the direct materials and direct labour components of the unique goods in question. This method of revaluation is also applied to government final consumption expenditure. The resulting estimates have, therefore, considerable limitations for many uses, for example in studies of productivity.

The method used to estimate the increase in stocks involves first reducing the increase in book values of stocks by an estimate of the stock valuation adjustment to obtain the measures at current prices, and then revaluing the latter to arrive at the estimates at constant prices. The stock valuation adjustment has to be made because existing stocks are sometimes explicitly revalued (for example, such revaluations are sometimes made by business enterprises so as to show stocks at the lower of cost or market value for balance sheet purposes) or more commonly, because stocks used or disposed of are replaced by new stocks of the same goods but at different prices.

Part 1 of Australian National Accounts, National Income and Expenditure, 1974-75 contains a fuller discussion of the conceptual problems involved in making these estimates and Appendix B of that publication contains a brief account of the sources and methods used in preparing the estimates.

Reliability and revisions

Estimates of national income and expenditure are necessarily prepared from a very wide range of statistical information, some of which is available quickly, some of it only with a delay of several years after the period to which it relates. Some of it is closely related to the desired national income concepts, but some of it is not completely satisfactory in various respects, including coverage, concepts and timing. Estimates, in particular for the most recent years, are therefore subject to revision.

This applies particularly to estimates based on income tax statistics—income of companies, non-farm unincorporated enterprises, depreciation, and part of gross private fixed investmentwhich are subject to substantial revisions for the last two years, as tabulations of income tax statistics do not become available until about twenty-two months after the end of each financial year.

It is not possible to put precise limits on the degree of revision likely to any particular series, nor to state degrees of reliability in a statistical sense. These depend in large part on the range and quality of the basic statistical data. For illustrations of common causes of revisions reference should be made to Australian National Accounts, National Income and Expenditure, 1974-75.

National income and expenditure tables

(For explanatory note on item numbers see Note following Table 3.)

TABLE |
DOMESTIC PRODUCTION ACCOUNT
(\$ million)

| | | | | | | |
|-------------|---|---------|---------|--------------|---------|--------|
| | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-7 |
| | Final consumption expenditure— | | | | | |
| 1 | Private | 19,991 | 22,189 | 24,836 | 29,072 | 34,54 |
| 2 | Government | 4,198 | 4,760 | 5,441 | 6,756 | 9,092 |
| | Gross fixed capital expenditure— | | | | | |
| 3 | Private | 5,851 | 6,311 | 6,586 | 7,956 | 8,78 |
| 4 | Public enterprises | 1,550 | 1,774 | 1,777 | 2,013 | 2,65 |
| 5 | General government | 1,377 | 1,520 | 1,692 | 1,951 | 2,710 |
| 6 | Increase in stocks | 327 | -113 | - 340 | 1,602 | 83 |
| 7 | Statistical discrepancy | -318 | -151 | 216 | 1,195 | 54 |
| | Gross national expenditure | 32,976 | 36,290 | 40,208 | 50,545 | 59,168 |
| 8 | Exports of goods and services | 5,070 | 5,633 | 6,949 | 7,774 | 9,78 |
| 9 | Less Imports of goods and services . | 5,118 | 5,194 | 5,327 | 7,650 | 9,94 |
| | Expenditure on gross domestic produc | 32,928 | 36,729 | 41,830 | 50,669 | 59,00 |
| 10 | Wages, salaries and supplements . | 17,936 | 20,068 | 22,417 | 27,518 | 35,19 |
| | Gross operating surplus— Trading enterprises— | | | | | |
| 11 <i>a</i> | Companies | 4,719 | 5,098 | 5,984 | 6,690 | 6,20 |
| 11 <i>b</i> | Unincorporated enterprises . | 4,223 | 4,731 | 5,796 | 7,499 | 7,00 |
| 11c | Dwellings owned by persons . | 1,828 | 2,100 | 2,410 | 2,847 | 3,47 |
| 11d | Public enterprises | 1,077 | 1,218 | 1,270 | 1,244 | 1,14 |
| 11 <i>e</i> | Financial enterprises | 591 | 676 | 792 | 852 | 93 |
| 11 <i>f</i> | Less Imputed bank service charge . | 744 | 853 | 1,068 | 1,331 | 1,62 |
| | Gross domestic product at factor cost | 29,630 | 33,038 | 37,601 | 45,319 | 52,33 |
| 12 | Indirect taxes less subsidies | 3,298 | 3,691 | 4,229 | 5,350 | 6,67 |
| | Gross domestic product | 32,928 | 36,729 | 41,830 | 50,669 | 59,00 |
| | Con from 1 | 2,004 | 2,237 | 3,052 | 4,478 | 3,62 |
| | Gross farm product | 2,004 | 2,231 | 3,052 | 7,770 | 3,02. |

TABLE 2
EXPENDITURE ON GROSS DOMESTIC PRODUCT AT AVERAGE 1966-67 PRICES (\$ million)

| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974–75 |
|------------------------------------|-------|--------|-----|---------|---------|---------|---------|---------|
| Final consumption expenditure— | | | | | | | | |
| Private | | | | 17,140 | 17,911 | 18,997 | 20,008 | 20,348 |
| Government | | | | 3,229 | 3,272 | 3,439 | 3,668 | 3,886 |
| Gross fixed capital expenditure— | | | | -, | -, | • | | |
| Private | | | | 4,983 | 5,020 | 4.964 | 5,353 | 4,842 |
| Public | | | | 2,455 | 2.600 | 2,534 | 2,571 | 2,823 |
| Increase in stocks | | | i | 313 | 95 | -184 | 1,004 | 562 |
| Statistical discrepancy | | • | | -259 | -110 | 172 | 815 | 321 |
| Gross national expenditure | ? . | | | 27,861 | 28,598 | 29,922 | 33,419 | 32,782 |
| Exports of goods and services . | | | | 5,165 | 5,501 | 5,715 | 5,501 | 5,845 |
| Less Imports of goods and services | · . | | | 4,866 | 4,715 | 4,906 | 6,438 | 6,462 |
| Expenditure on gross dom | estic | produc | t . | 28,160 | 29,384 | 30,731 | 32,482 | 32,165 |
| Gross farm product | • | | | 2,528 | 2,748 | 2,459 | 2,544 | 2,738 |
| Gross non-farm product | | | | 25,632 | 26,636 | 28,272 | 29,938 | 29,427 |

TABLE 3
NATIONAL INCOME AND OUTLAY ACCOUNT
(S million)

| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--|---|---|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| 10 Wages, salaries and supplement | s | | : | 17,936 8,876 | 20,068 9,888 | 22,417 11,892 | 27,518 14,213 | 35,190 13,151 |
| Domestic factor incomes | | | | 26,812 | 29,956 | 34,309 | 41,731 | 48,341 |
| 13 Less Net income paid overseas 12a Indirect taxes | | : | • | 393 3,587 289 | 387 4,079 388 | 408 4,552 323 | 311 5,629 279 | 457 6,999 328 |
| National income . | | | | 29,717 | 33,260 | 38,130 | 46,770 | 54,555 |
| 14 Less Net transfers to overseas | | | | 138 | 152 | 231 | 319 | 265 |
| National disposable income | | | | 29,579 | 33,108 | 37,899 | 46,451 | 54,290 |
| Final consumption expenditure | | | | | | | | |
| 1 Private | | | | 19,991 | 22,189 | 24,836 | 29,072 | 34,541 |
| 2 Government | • | | | 4,198 | 4,760 | 5,441 | 6,756 | 9,092 |
| 15) to Saving | | • | | 5,390 | 6,159 | 7,622 | 10,623 | 10,657 |
| 20 J Disposal of income . | | | | 29,579 | 33,108 | 37,899 | 46,451 | 54,290 |

Note, Items in all current price tables are numbered from 1 to 26, with or without the addition of a letter, and this system is used to identify the corresponding credit and debit entries in the accounts and as a key to the notes on pages 504-8. In some cases the items correspond exactly, while in other cases an entry in one table is the sum of two or more entries in other tables; here the total is given a number, and the components have a number and a letter. In the remaining type of case all entries are given the same number and a distinguishing letter, because in this group one item is not the sum of one or more entries. The relationship between these items can still be traced through because the sum of all credit entries must equal the sum of all debit entries.

TABLE 4
NATIONAL CAPITAL ACCOUNT
(S million)

| | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|-------------|--|--------------|---------|--------------|--------------|-------------|
| 11 <i>h</i> | Depreciation allowances | 2,818 | 3,082 | 3,292 | 3,588 | 3,991 |
| 15 | Increase in income tax provisions | 27 | 142 | 491 | 990 | -452 |
| 16 | Undistributed (company) income | 838 | 849 | 1,028 | 961 | -179 |
| 17 | Retained income of public financial enter- | | | | | |
| | prises | 108 | 112 | 174 | 181 | 209 |
| 18 | Household saving | 2,213 | 2,593 | 3,789 | 5,413 | 7,728 |
| 19 | General government surplus on current | | | | | |
| | transactions | 2,153 | 2,408 | 2,065 | 2,991 | 3,000 |
| 20 | General government grants for private | | | | | |
| | capital purposes | 51 | 55 | 75 | 87 | 133 |
| 26 | Extraordinary insurance claims paid | | | | • • | 218 |
| | Finance of gross accumulation | 8,208 | 9,241 | 10,914 | 14,211 | 14,648 |
| | Gross fixed capital expenditure— Private— | | | | | |
| 3 <i>a</i> | Dwellings | 1,549 | 1.785 | 2,122 | 2,583 | 2,501 |
| 3 <i>b</i> | Other building and construction | 1,392 | 1,451 | 1,364 | 1,592 | 1,978 |
| 3 <i>c</i> | All other | 2,910 | 3,075 | 3,100 | 3,781 | 4,309 |
| 4 | Public enterprises | 1,550 | 1,774 | 1,777 | 2,013 | 2,654 |
| 5 | General government | 1,377 | 1,520 | 1,692 | 1,951 | 2,710 |
| | Total gross fixed capital expenditure . | 8,778 | 9,605 | 10,055 | 11,920 | 14,152 |
| | Increase in stocks— | | | | | |
| 6 <i>a</i> | Farm and miscellaneous | - 46 | -142 | - 264 | 776 | 359 |
| 6 <i>b</i> | Private non-farm | 373 | 29 | - 76 | 826 | 477 |
| 7 | Statistical discrepancy | -318 | -151 | 216 | 1,195 | 547 |
| 21 | Net lending to overseas | ~ 579 | 100 | 983 | - 506 | 887 |
| | Gross accumulation | 8,208 | 9,241 | 10,914 | 14,211 | 14,648 |
| 21 | | | | | | |

TABLE 5
GROSS FIXED CAPITAL EXPENDITURE AND INCREASE IN STOCKS AT AVERAGE 1966-67 PRICES
(\$ million)

| | | | | | | | | |
|--|-----|------|---|----------------|----------------|--------------|----------------|--------------|
| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| Gross fixed capital expendit | ure | | | | | | | |
| Private— | | | | | | | | |
| Dwellings | | | | 1,342 1,162 | 1,438 1,128 | 1,577 993 | 1,598 1,010 | 1,257 995 |
| Other building and con All other. | · | : | | 2,479 | 2,454 | 2,394 | 2,746 | 2,590 |
| Total private . | | | | 4,983 | 5,020 | 4,964 | 5,353 | 4,842 |
| Public | | | | 2,455 | 2,600 | 2,534 | 2,571 | 2,823 |
| Total | | | • | 7,438 | 7,620 | 7,498 | 7,924 | 7,665 |
| Increase in stocks— | | | | | | | | |
| Farm and miscellaneous Private non-farm. | | | | -20 333 | -122 27 | -123 -61 | 415 589 | 245 317 |
| Total | | | | 313 | -95 | - 184 | 1,004 | 562 |
| | | | | | | | | |

TABLE 6
OVERSEAS TRANSACTIONS ACCOUNT (\$ million)

| _ | | | | | | | | |
|------------|---|----|---|---------|---------|---------|-------------|---------|
| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| 9 <i>a</i> | Imports f.o.b | | | 3,790 | 3,792 | 3,808 | 5,753 | 7,658 |
| 9 <i>b</i> | Transportation | | | 832 | 804 | 841 | 1,169 | 1,465 |
| 9c | Travel | | | 199 | 264 | 321 | 341 | 388 |
| 9d | Government transactions | | | 127 | 124 | 122 | 116 | 150 |
| 9 <i>e</i> | Other goods and services | • | | 170 | 210 | 235 | 271 | 286 |
| 9 | Imports of goods and services | | | 5,118 | 5,194 | 5,327 | 7,650 | 9,947 |
| 3 <i>a</i> | Property income to overseas . | | | 544 | 593 | 704 | 719 | 827 |
| 14a | Personal transfers overseas . | | | 134 | 172 | 217 | 253 | 235 |
| 146 | General government transfers overse | as | | 185 | 206 | 252 | 289 | 350 |
| 21 | Net lending to overseas | • | ٠ | 579 | -100 | 983 | 506 | -887 |
| | Use of current receipts | | | 5,402 | 6,065 | 7,483 | 8,405 | 10,472 |
| 8 <i>a</i> | Exports f.o.b | | _ | 4,230 | 4,741 | 6,015 | 6,694 | 8,463 |
| 8 <i>b</i> | Transportation | | | 474 | 498 | 571 | 680 | 827 |
| 8 <i>c</i> | Travel | | | 135 | 131 | 123 | 162 | 210 |
| 8 <i>d</i> | Government transactions | | | 82 | 90 | 90 | 93 | 107 |
| 8 <i>e</i> | Other goods and services | • | | 149 | 173 | 150 | 145 | 17: |
| 8 | Exports of goods and services | | | 5,070 | 5,633 | 6,949 | 7,774 | 9,782 |
| 36 | Property income from overseas . Transfers from overseas— | | | 151 | 206 | 296 | 408 | 370 |
| l4c | | | | 181 | 226 | 238 | 223 | 245 |
| 44 | | : | : | | | | | 75 |
| | Current receipts from overseas | | | 5,402 | 6,065 | 7,483 | 8,405 | 10,472 |

TABLE 7

CORPORATE TRADING ENTERPRISES (INCLUDING PUBLIC TRADING ENTERPRISES)

INCOME AND OUTLAY ACCOUNT
(\$ million)

| | | | | | | 19 | 70-71 | 19 | 71-72 | 19 | 72-73 | 197 | 73-74 | 1974-7. |
|-------------|---|--------|-------------|---------|-----|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| | Net operating surplus— | | | | | | | | | | | _ | | |
| 11 <i>i</i> | Trading enterprise con | nnani | ec | | | | 3,416 | | 3,623 | | 4,429 | | 4.980 | 4,21 |
| | Public trading enterprise | | C 3. | • | • | | 630 | | 729 | | 737 | | 665 | 55 |
| Πj | | 562 | • | • | ٠ | | | | 235 | | 267 | | 399 | |
| | Interest, etc. received | • | • | • | • | | 216 | | | | | | | 49 |
| 134 | Dividends received . | • | • | • | • | | 72 | | 82 | | 101 | | 144 | 13 |
| | Receipts | • | • | | | | 4,334 | | 4,669 | | 5,534 | , | 6,188 | 5,40 |
| 13e | Interest etc. paid . | | | | | | 803 | | 900 | | 1,038 | | 1,251 | 1,68 |
| 25a | Third party insurance tra | insfer | s to | persons | | | 39 | | 44 | | 50 | | 66 | 8. |
| | Public enterprise income Company income— | | ٠ | • | ٠ | | 630 | | 729 | | 737 | | 665 | 55. |
| 15a | Income tax payable | | | | . 1 | 1,367 | | 1,448 | | 1,885 | | 2.408 | | n.a. |
| 13 <i>f</i> | • • | | | | | 834 | | 885 | | 980 | | 1.011 | | n.a. |
| 16a | Undistributed income | ÷ | · | | | 661 | | 663 | | 844 | | 787 | | n.a. |
| | | | | | - | | 2,862 | | 2,996 | | 3,709 | | 4,206 | 3,08 |
| | Disbursements . | | | | | | 4,334 | | 4,669 | | 5,534 | | 6,188 | 5,40 |

Table 8

FINANCIAL ENTERPRISES (INCLUDING THE NOMINAL INDUSTRY) INCOME AND OUTLAY ACCOUNT (\$ million)

| | | | | | | 19 | 70-71 | 197 | 71-72 | 197 | 72-73 | 197. | 3-74 | 19 | 74-75 |
|-------------|--|-----------------|--------|-------|-----|-----------|------------------|-----------|--------------------|-----------|--------------------|-----------|-------------------|-----------|---------------------------|
| 11 <i>k</i> | Net Operating Surplus | | | | | | 494 | | 571 | | 676 | | 713 | | 775 |
| | Less imputed bank service | e cha | rge | | | | 744 | | 853 | | 1.068 | 1 | .331 | | 1,625 |
| | Interest etc. received | | | | | | 2,086 | : | 2,407 | | 2.889 | | ,791 | | 4,820 |
| 13h | Dividends received . | | | | | | 106 | | 117 | | 130 | | 145 | | 148 |
| 14d | Extraordinary insurance of | claims | from | overs | eas | | | | | | | | | | 75 |
| | Receipts | | | | | | 1,942 | : | 2,242 | | 2,627 | 3 | ,318 | | 4,193 |
| 13 <i>j</i> | Interest on life and sur imputed to households Other interest etc. paid Income tax on life and su Extraordinary insurance Public enterprise income- Paid to general govern Retained income. | peran claims | nuatio | on fu | : | 57 108 | 531 853 19 | 64 112 | 604 1,017 21 | 40 174 | 689 1,218 25 | 26 181 | 755 ,811 53 | 12 209 | 877 2,417 62 218 |
| | | | | | - | | 165 | | 176 | | 214 | | 207 | | 221 |
| | Company income | | | | | | | | | | | | | | |
| 15c | Income tax payable | | | | | 120 | | 142 | | 179 | | 192 | | n.a. | |
| 13k | | | | | | 77 | | 96 | | 118 | | 126 | | n.a. | |
| 16 <i>b</i> | Undistributed income | • | | ٠ | • | 177 | | 186 | | 184 | | 174 | | n.a. | |
| | | | | | - | | 374 | | 424 | | 481 | | 492 | | 398 |
| | Disbursements . | • | | | | | 1,942 | : | 2,242 | | 2,627 | 3 | ,318 | | 4,193 |

TABLE 9
HOUSEHOLD (INCLUDING UNINCORPORATED ENTERPRISES) INCOME AND OUTLAY ACCOUNT (\$ million)

| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-7 |
|--|---------|---------|---------|-------------|------------|
| Net operating surplus— | | | - | | |
| 11/ Dwellings owned by persons | 1,561 | 1,803 | 2,084 | 2,479 | 3,06 |
| 11m Unincorporated enterprises | 3,519 | 4,015 | 5,034 | 6,707 | 6,15 |
| 13/ Less Interest, etc., paid relating thereto | 924 | 1.038 | 1,244 | 1,685 | 2,16 |
| 25b Third party insurance transfers to | | • • • • | -, | , | , |
| persons | 30 | 36 | 39 | 51 | 6 |
| Income from unincorporated enterprises and | | | | | |
| dwellings owned by persons | 4,126 | 4,744 | 5,835 | 7,450 | 6,99 |
| 10 Wages, salaries and supplements | 17,936 | 20,068 | 22,417 | 27,518 | 35,19 |
| 13i Interest on life and superannuation funds | | | | | |
| (imputed) | 531 | 604 | 689 | 755 | 87 |
| in marrie i de la companya de la co | 856 | 975 | | 1,574 | 2,09 |
| Transfers from general government— | 536 | 583 | 1,155 | 606 | 2,09 59 |
| 22 6 1 1 2 | | | 593 | | 4,53 |
| | 1,854 | 2,168 | 2,694 | 3,256 65 | 4,33 |
| | | | | | 14 |
| | 69 | 80 | 89 | 117 | 24 |
| 14c Transfers from overseas | 181 | 226 | 238 | 223 | 24 |
| Receipts | 26,089 | 29,448 | 33,710 | 41,564 | 50,76 |
| 1 Private final consumption expenditure . | 19,991 | 22,189 | 24,836 | 29,072 | 34,54 |
| 130 Consumer debt interest | 220 | 239 | 277 | 432 | 53 |
| 15d Income tax payable | 3,123 | 3,815 | 4,103 | 5,835 | 7,14 |
| Other direct taxes, fees, fines, etc. | 408 | 440 | 488 | 559 | 58 |
| 14a Transfers overseas | 134 | 172 | 217 | 253 | 23 |
| 18 Saving | 2,213 | 2,593 | 3,789 | 5,413 | 7,72 |
| Disbursements | 26,089 | 29,448 | 33,710 | 41,564 | 50,76 |

TABLE 10
GENERAL GOVERNMENT INCOME AND OUTLAY ACCOUNT (\$ million)

| | | | | | | 1970-71 | 1971-72 | 1972–73 | 1973-74 | 1974-75 |
|--|------------|---------|--------|--------|-----|---------|---------|---------|---------|---------|
| 22 Income from p | ublic ent | erprise | s . | | | 687 | 793 | 777 | 691 | 567 |
| 13p Interest, etc., re | eceived | | | | | 278 | 298 | 340 | 414 | 524 |
| 12a Indirect taxes Direct taxes on | | | | • | • | 3,587 | 4,079 | 4,552 | 5,629 | 6,999 |
| 15e Companies, | etc | | | | | 1,427 | 1,519 | 1,617 | 2,013 | 2,431 |
| 15/ Households | | | | | | 3,175 | 3,765 | 4,084 | 5,485 | 7,709 |
| 24 Other direct ta | xes, fees, | fines, | etc. | | • | 408 | 440 | 488 | 559 | 580 |
| Receipts | | | | | | 9,562 | 10,894 | 11,858 | 14,791 | 18,810 |
| 2 Final consump | tion exp | enditur | е. | | | 4,198 | 4,760 | 5,441 | 6,756 | 9,092 |
| 12b Subsidies | | | | | | 289 | 388 | 323 | 279 | 328 |
| 13q Interest, etc., p Transfers to pe | | • | • | • | • | 832 | 909 | 1,008 | 1,068 | 1,288 |
| 23a Cash benefits | | | | | | 1,854 | 2,168 | 2,694 | 3,256 | 4,531 |
| 23b Unfunded er | | retiren | ent h | enefit | ς . | .,05. | 2,.00 | _,0,, | 65 | 88 |
| 20 Grants for priv | | | | | ٠. | 51 | 55 | 75 | 87 | 133 |
| 14b Transfers overs | | ar pur | | : | : | 185 | 206 | 252 | 289 | 350 |
| 19 Surplus on cur | | | | : | : | 2,153 | 2,408 | 2,065 | 2,991 | 3,000 |
| Disbursem | ents . | | | | | 9,562 | 10,894 | 11,858 | 14,791 | 18,810 |

TABLE 11
MAIN AGGREGATES AT CURRENT PRICES, 1951-52 TO 1974-75
(\$ million)

| | | | | | (\$ million | 1) | | | |
|---|---|---|--|--|---|--|---|--|--|
| | | | Ī | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | r. 1 | _ | | | | | (1 10 6) |
| | | | Final con | | Private | Public | | | - |
| | | | expenditi | .re | gross fixea capital | gross fixed capital | Increase in | Statistical | Gross |
| Year | | | Private | Government | | | | discrepancy | national expenditure |
| 1051 53 | | | | | | | • | | |
| 1951-52 1952-53 | • | • | 5,023 | 803 | 1,132 | 806 | 377 | 70 | 8,211 |
| 1952-55 | ٠ | • | 5,334 5,860 | 925 874 | 1,143 1,320 | 794 808 | -294 109 | - 239 107 | 7,661 |
| 1954-55 | • | • | 6,375 | 936 | 1,320 | 871 | 166 | - 107 42 | 8,864 |
| 1955~56 | • | • | 6,852 | 1.043 | 1,462 | 927 | 229 | -52 | 9,872 10,639 |
| 1956-57 | • | • | 7,327 | 1,045 | 1,717 | 950 | -45 | -158 | 10,639 |
| 1957-58 | • | • | 7,682 | 1,121 | 1,858 | 998 | 56 | -7 | 11,708 |
| 1958-59 | | : | 8,089 | 1,223 | 1,922 | 1,100 | 253 | -7i | 12,516 |
| 1959-60 | - | | 8,874 | 1,312 | 2,191 | 1,214 | 168 | 111 | 13,870 |
| 1960-61 | · | • | 9,416 | 1,410 | 2,415 | 1,256 | 478 | 42 | 15,017 |
| 1961-62 | | • | 9,703 | 1.529 | 2,328 | 1,402 | -219 | - 74 | 14,669 |
| 1962-63 | | | 10,400 | 1,634 | 2,580 | 1,443 | 253 | -102 | 16,205 |
| 1963-64 | | | 11,225 | 1,785 | 2,913 | 1,603 | 120 | 96 | 17,550 |
| 1964-65 | | | 12,145 | 2,043 | 3,403 | 1,866 | 560 | 17 | 20,034 |
| 1965~66 | | | 12,920 | 2,384 | 3,660 | 2,059 | 113 | -114 | 21,022 |
| 1966-67 | | | 13,954 | 2,702 | 3,829 | 2,180 | 363 | -223 | 22,805 |
| 1967–68 | | | 15,258 | 3,052 | 4,168 | 2,366 | 146 | -329 | 24,661 |
| 1968-69 | | | 16,507 | 3,334 | 4,731 | 2,531 | 669 | -335 | 27,437 |
| 1969-70 | | | 18,156 | 3,634 | 5,167 | 2,746 | 448 | - 195 | 29,956 |
| 1970-71 | | | 19,991 | 4,198 | 5,851 | 2,927 | 327 | 318 | 32,976 |
| 1971–72 | | | 22,189 | 4,760 | 6,311 | 3,294 | -113 | - 151 | 36,290 |
| 1972-73 | • | | 24,836 | 5,441 | 6,586 | 3,469 | - 340 | | |
| 1973-74 | • | • | 29,072 | 6,756 | 7,956 | 3,964 | 1,602 | 1,195 | |
| 1974–75 | ٠ | • | 34,541 | 9,092 | 8,788 | 5,364 | 836 | 547 | 59,168 |
| | | | | • | | - | | | |
| | | | | | | | | | |
| | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | 8 | 9 | (7 + 8 - 9) | | 12 | 13 | |
| | | | 8 | 9 | | Gross | 12 | 13 | Wages, |
| | | | 8 Exports of | | (7 + 8 - 9) | | 12 | 13 | Wages, salaries |
| | | | _ | | (7 + 8 - 9) | Gross domestic | 12 National | | Wages, salaries and |
| Year | | | Exports of | Imports of | (7 + 8 — 9) Gross | Gross domestic product | | | Wages, salaries and |
| <i>Year</i> 1951–52 | | | Exports of goods and services | Imports of goods and services | (7 + 8 — 9) Gross domestic product | Gross domestic product at factor cost | National income | Household income | Wages, salaries and supple- ments |
| | : | : | Exports of goods and services | Imports of goods and services | Gross domestic product | Gross domestic product at factor cost | National income 6,852 | Household income 6,297 | Wages, salaries and supple- ments |
| 1951–52 | | | Exports of goods and services | Imports of goods and services | (7 + 8 — 9) Gross domestic product | Gross domestic product at factor cost 6,453 7,452 | National income 6,852 7,753 | Household income | Wages, salaries and supple- ments 3,935 4,255 |
| 1951-52 1952-53 | | | Exports of goods and services 1,493 1,893 | Imports of goods and services 2,437 1,312 | Gross domestic product 7,267 8,242 | Gross domestic product at factor cost | National income 6,852 | Household income 6,297 7,047 7,377 | Wages, salaries and supple- ments 3,935 4,255 4,534 |
| 1951-52 1952-53 1953-54 | | : | Exports of goods and services 1,493 1,893 1,750 | Imports of goods and services 2,437 1,312 1,601 | Gross domestic product 7,267 8,242 9,013 | Gross domestic product at factor cost 6,453 7,452 8,118 | National income 6,852 7,753 8,419 | Household income 6,297 7,047 7,377 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 | | : | Exports of goods and services 1,493 1,893 1,750 1,714 | Imports of goods and services 2,437 1,312 1,601 1,983 | Gross domestic product 7,267 8,242 9,013 9,603 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 | National income 6,852 7,753 8,419 8,908 | Household income 6,297 7,047 7,377 7,897 8,572 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 | | : | Exports of goods and services 1,493 1,893 1,750 1,714 1,719 2,191 1,805 | Imports of goods and services 2,437 1,312 1,601 1,983 1,935 1,736 1,925 | 7,267 8,242 9,013 9,603 10,405 11,332 11,588 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 | Household income 6,297 7,047 7,377 7,897 8,572 9,158 9,163 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 | | : | Exports of goods and services 1.493 1,893 1,750 1,714 1,719 2.191 1,805 1,892 | Imports of goods and services 2,437 1,312 1,601 1,983 1,953 1,736 1,925 1,960 | 7,267 8,242 9,013 9,603 10,405 11,332 11,588 12,448 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 11,100 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 11.306 | Household income 6,297 7,047 7,377 7,897 8,572 9,158 9,163 9,864 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 6,273 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 | | : | Exports of goods and services 1,493 1,893 1,750 1,714 1,719 2,191 1,805 1,892 2,134 | Imports of goods and services 2,437 1,312 1,601 1,983 1,953 1,736 1,925 1,960 2,286 | 7,267 8,242 9,013 9,603 10,405 11,332 11,588 12,448 13,718 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 11,100 12,243 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 11,306 12,472 | Household income 6,297 7,047 7,377 7,897 8,572 9,158 9,163 9,864 10,834 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 6,273 6,961 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 1960-61 | | : | Exports of goods and services 1,493 1,893 1,750 1,714 1,719 2,191 1,805 1,892 2,134 2,177 | Imports of goods and services 2,437 1,312 1,601 1,983 1,953 1,736 1,925 1,960 2,286 2,603 | 7,267 8,242 9,013 9,603 10,405 11,332 11,588 12,448 13,718 14,591 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 11,100 12,243 13,020 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 11.306 12,472 13,228 | Household income 6,297 7,047 7,377 7,897 8,572 9,163 9,864 10,834 11,644 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 6,273 6,961 7,500 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 1960-61 1961-62 | | : | Exports of goods and services 1,493 1,893 1,750 1,714 1,719 2,191 1,805 1,892 2,134 2,177 2,464 | Imports of goods and services 2,437 1,312 1,601 1,983 1,736 1,925 1,960 2,286 2,603 2,205 | Gross domestic product 7,267 8,242 9,013 9,603 10,405 11,332 11,588 12,448 13,718 14,591 14,928 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 11,100 12,243 13,020 13,382 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 11,306 12,472 13,228 | Household income 6,297 7,047 7,377 7,897 8,572 9,158 9,163 9,864 10,834 11,644 12,052 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 6,273 6,961 7,500 7,722 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 1960-61 1961-62 1962-63 | | | Exports of goods and services 1.493 1,893 1,750 1,714 1,719 2,191 1,805 1,892 2,134 2,177 2,464 2,504 | Imports of goods and services 2,437 1,312 1,601 1,983 1,953 1,736 1,925 1,960 2,286 2,603 2,205 2,620 | Gross domestic product 7,267 8,242 9,013 9,603 10,405 11,332 11,588 12,448 13,718 14,591 14,928 16,089 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 11,100 12,243 13,020 13,382 14,446 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 11.306 12,472 13,228 13,490 14,530 | Household income 6,297 7,047 7,377 7,897 8,572 9,158 9,163 9,864 10,834 11,644 12,052 12,816 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 6,273 6,961 7,500 7,722 8,148 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 1960-61 1961-62 1962-63 | | | Exports of goods and services 1,493 1,893 1,750 1,714 1,719 2,191 1,805 1,892 2,134 2,177 2,464 2,504 3,169 | Imports of goods and services 2,437 1,312 1,601 1,983 1,953 1,736 1,925 1,960 2,286 2,603 2,205 2,620 2,873 | 7,267 8,242 9,013 9,603 10,405 11,332 11,588 12,448 13,718 14,591 14,928 16,089 17,846 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 11,100 12,243 13,020 13,382 14,446 16,074 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 11,306 12,472 13,228 13,490 14,530 16,133 | Household income 6,297 7,047 7,377 7,897 8,572 9,158 9,163 9,864 10,834 11,644 12,052 12,816 14,196 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 6,273 6,961 7,500 7,722 8,148 8,860 |
| 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 1960-61 1961-62 1962-63 1963-64 | | | Exports of goods and services 1,493 1,893 1,750 1,714 1,719 2,191 1,805 1,892 2,134 2,177 2,464 2,504 3,169 3,049 | Imports of goods and services 2,437 1,312 1,601 1,983 1,953 1,736 1,925 1,960 2,286 2,603 2,205 2,620 2,873 3,485 | 7,267 8,242 9,013 9,603 10,405 11,332 11,588 12,448 13,718 14,591 14,928 16,089 17,846 19,598 | Gross domestic product at factor cost 6,453 7,452 8,118 8,623 9,342 10,135 10,291 11,100 12,243 13,020 13,382 14,446 16,074 17,641 | National income 6,852 7,753 8,419 8,908 9,612 10,472 10,546 11,306 12,472 13,228 13,490 14,530 16,133 17,713 | Household income 6,297 7,047 7,377 7,897 8,572 9,158 9,163 9,864 10,834 11,644 12,052 12,816 14,196 15,498 | Wages, salaries and supple- ments 3,935 4,255 4,534 4 964 5,444 5,758 5,980 6,273 6,961 7,722 8,148 8,860 9,906 |
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Description of items in the National Income and Expenditure Accounts

Item 1. Final consumption expenditure—private. Net expenditure on goods and services for purposes of consumption by persons and private non-profit organisations serving households. This item excludes the purchase of dwellings and capital expenditure by unincorporated businesses and non-profit organisations (included in item 3), and maintenance of dwellings (treated as expenses of private enterprises), but includes personal expenditure on motor vehicles and other durable goods and the imputed rent of owner-occupied dwellings. Purchase of motor vehicles is the estimated expenditure by persons on new motor vehicles, second-hand motor vehicles purchased from business enterprises and general government, and net dealers' margins on purchases and sales of motor vehicles between persons. Motor vehicles include cars, station wagons, motor cycles, and motor scooters bought for personal use. The value of food produced and consumed on farms is included, and the payment of wages and salaries in kind (e.g. food and lodging provided free to employees) is included in both household income and private final consumption expenditure. Goods and services purchased by business or general government, e.g. as expense-account allowances to employees, are excluded.

Item 2. Final consumption expenditure—government. Expenditure by public authorities (other than those classified as public enterprises) which does not result in the creation of fixed tangible assets or in the acquisition of land, buildings or second-hand goods. It comprises expenditure on wages, salaries, and supplements, and on goods and services other than fixed assets and stocks. Fees, etc., charged by general government for goods sold and services rendered are offset against purchases. Net expenditure overseas by general government and purchases from public enterprises are included. All government expenditure on defence is classified as final consumption expenditure.

Item 3. Gross fixed capital expenditure—private. Expenditure on fixed assets whether for additions or replacements. This item includes expenditure on dwellings (item 3a), other building and construction (item 3b), and vehicles, plant machinery, etc. (item 3c). It includes also expenditure on second-hand assets as well as new assets, less sales of existing assets. Expenditure on ordinary repair and maintenance of fixed assets is excluded as being chargeable to current account. Major additions are, however, regarded as capital expenditure. Dwellings purchased by persons from public housing authorities, including previously rented houses, are included in private capital expenditure. Net purchases of other land and buildings are not included.

Item 4. Gross fixed capital expenditure—public enterprises. Expenditure on new fixed assets whether for additions or replacements, including wages and salaries paid by public enterprises in connection with capital works. Expenditure on houses and flats is estimated by deducting the cost of previously rented dwellings sold to the private sector from the estimated expenditure on construction of dwellings. The sales value of these previously rented dwellings is included in private capital expenditure.

Item 5. Gross fixed capital expenditure—general government. Expenditure on new fixed assets whether for additions or replacements, other than for defence purposes. Because it has not been possible to make a satisfactory dissection, all expenditure on roads, including maintenance, is classified as fixed capital expenditure.

Item 6. Increase in stocks. The increase in stocks of enterprises and general government. The increase in stocks is calculated on a quarterly basis as the difference between the beginning and end-of-quarter estimates of stock levels, both revalued at average current-quarter prices by means of appropriate price indexes. In Tables 4 and 5 this item is subdivided into two components:

Item 6a. Farm and miscellaneous. This consists of increases in farm stocks and public authority stocks.

Item 6b. Private non-farm. This is the increase in stocks of private non-farm enterprises.

Item 7. Statistical discrepancy. The difference between the sum of the direct estimates of gross domestic product and imports of goods and services on the one hand and the sum of the estimates of components of gross national expenditure and exports of goods and services on the other hand. Conceptually these two totals are the same. Inclusion of the discrepancy on the expenditure side of the domestic production account implies nothing as to the relative accuracy of the estimates of gross domestic product and national expenditure. Similarly its inclusion in the capital account does not imply that estimates in this table are less accurate than those in other tables, or that capital expenditure estimates are less accurate than estimates on the receipts side of this account.

Item 8. Exports of goods and services. The value of goods exported overseas and receipts from overseas for other goods and services. In Table 6 this item is sub-divided into the following components.

Item 8a. Exports f.o.b. The recorded trade figures adjusted for balance of payments purposes. The adjustments are similar to those made to the recorded import figures except that no change is made to the basis of valuation.

Item 8b. Transportation (receipts). The expenditure of overseas carriers in Australian ports, the overseas earnings of Australian shipping and airline operators in respect of passenger fares, and their earnings from freight on exports from Australia, carriage of goods between foreign ports, etc.

Item 8c. Travel (receipts). Expenditure in Australia of persons visiting for pleasure or business, including expenditure in Australia of students studying under the Colombo Plan.

Item 8d. Government transactions (receipts). Includes receipts for services rendered by the Commonwealth government to other governments and international organisations, including services provided under joint defence projects and payments in Australia by foreign governments on diplomatic, consular and trade representation and for pensions.

Item 8e. Other goods and services (receipts). The value of Australian production of gold (including recoveries from scrap) less net industrial usage, business expenses of overseas firms in Australia, and commissions, brokerage, etc.

Item 9. Imports of goods and services. The value of goods imported from overseas and amounts payable overseas for services. In Table 6 this item is sub-divided into the following components.

Item 9a. Imports f.o.b. Recorded trade figures adjusted for the purpose of balance of payments estimates. The principal adjustments are the deduction of a 'valuation adjustment' representing the excess of the recorded value of imports (based on value for duty) over the estimated selling price to the importer as shown on invoices accompanying customs entries, the addition of unrecorded imports including ships and aircraft for use on overseas routes, and the subtraction of films imported on a rental basis, imports of gold, passengers' personal effects, goods for repair and goods intended for re-export.

Item 9b. Transportation (payments). Freight payable to foreign carriers on goods imported into Australia and transported between Australian ports and fares payable in Australia to overseas shipping and airline companies. It also includes the overseas expenditure of Australian ships and aircraft, and net marine insurance payable overseas in respect of both exports and imports.

Item 9c. Travel (payments). Expenditure in other countries by Australians visiting overseas for pleasure or business.

Item 9d. Government transactions (payments). Expenditure overseas for defence, including the pay and allowances of personnel serving overseas, expenditure overseas on diplomatic, consular and trade representation, government pensions paid abroad, administrative expenditure overseas on immigration, and other miscellaneous payments for services.

Item 9e. Other goods and services (payments). Administrative and promotional expenditure overseas by Australian firms, cinema and television film rentals and commissions, brokerage, etc., payable overseas, and the value of repairs on goods previously exported for repair and return.

Item 10. Wages, salaries and supplements. Payments by producers to their employees in the nature of wages and salaries as defined for pay-roll tax, including allowances for income in kind (board and quarters, etc.), together with supplements to wages, and pay and allowances of members of the forces. Employees cover all persons engaged in the activities of incorporated business units and in the production of government services and services of non-profit organisations, members of the armed forces, and all persons engaged in the activities of unincorporated enterprises except the proprietors and unpaid members of the family. In addition to wages and salaries paid by employers subject to pay-roll tax, this item includes wages and salaries paid by employers not subject to pay-roll tax, based on estimates of employment and average earnings. To be consistent with the definition of the workforce, payments to trainee teachers are excluded from estimates of wages and salaries. Supplements consist of employers' contributions to pension and superannuation funds, direct payments of pensions and retiring allowances, and amounts paid as workers' compensation for injuries. Employers' contributions to pension and superannuation funds, in general, reflect the accruing liability to employees. Some governments contribute to their superannuation funds only as payments of benefits are made. In such cases it would be proper to impute payments as the liability accrues. This has not been done in these estimates except in respect of the Postal and Telecommunications Commissions where, in their commercial accounts, the accruing liability is debited as a working expense. Pay and allowances of members of the forces consist of active pay, field, subsistence and dependants' allowances, and the value to the members of the forces of food, clothing, normal medical attention, etc., supplied in kind. They include deferred pay, but exclude war gratuities which are included in item 23.

Item 11. Gross operating surplus. The operating surplus, before deduction of depreciation provisions, dividends, interest, royalties and land rent, and direct taxes payable, but after deducting stock valuation adjustment, of all enterprises, trading and financial, from operations in Australia. It is the excess of gross output over the sum of intermediate consumption, wages, salaries and supplements, and indirect taxes less subsidies. Gross operating surplus includes third party motor vehicle and public risk insurance claims paid to persons in respect of policies taken out by enterprises. Trading enterprises include all companies, public enterprises, partnerships and self-employed persons engaged in the production of goods and services for sale, but exclude financial enterprises. Public trading enterprises are government undertakings which attempt to recover all, or a substantial part, of their costs through charges made to the public for the sale of goods and services. All owners of dwellings are included whether they let the dwellings or occupy them themselves. Trading enterprises' gross operating surplus is shown separately for companies (item 11a), unincorporated enterprises (item 11b), dwellings owned by persons (item 11c), and public enterprises (item 11d). Financial enterprises comprise banks, insurance offices, superannuation funds and other enterprises primarily engaged in incurring liabilities and acquiring financial assets in the market. The gross operating surplus of financial enterprises (item 11e) includes an imputed bank service charge which represents a reclassification of a part of interest receipts as a charge for organising finance in contrast to a pure interest element. The imputed bank service charge (item 11 f) is not allocated among customers (which would have the effect of reducing their respective operating surpluses), but is shown in the production account as a negative adjustment to operating surpluses generally. Net operating surplus (item 11g) is, in principle, the operating surplus after providing for the consumption of fixed capital, and is estimated by deducting depreciation allowances from gross operating surplus. Net operating surplus is shown separately for trading enterprise companies (item 11i), public trading enterprises (item 11i), financial enterprises (item 11k), dwellings owned by persons (item 11l) and unincorporated enterprises (item 11m). Depreciation allowances (item 11h) are financial provisions made for depreciation and represent in the main amounts allowed under income tax legislation, but include also the estimated depreciation on tenanted and owner-occupied dwellings and provisions made by public enterprises.

Item 12. Indirect taxes less subsidies. Indirect taxes (item 12a) are taxes assessed on producers, i.e. enterprises and general government, in respect of the production, sale, purchase or use of goods and services, which are charged to the expenses of production. Subsidies (item 12b) are grants made by general government to enterprises which are credited to their production accounts. These grants may take the form of bounties on goods produced, payments to ensure a guaranteed price or to enable maintenance of prices of goods or services below cost of production, and other forms of assistance to producers. Losses of public trading enterprises are included in income from public enterprises.

Item 13. Dividends and interest, etc. Receipts and payments of dividends including dividends paid overseas and the remitted profits of Australian branches of overseas enterprises; and receipts and payments of interest, royalties and land rent. In most tables dividends are shown separately from interest etc. The items are shown net of intra-sector receipts and payments. Net income paid overseas comprises payments of dividends and interest etc. to overseas less receipts of dividends and interest etc. from overseas. Interest on life and superannuation funds imputed to households (13i), represents the net earnings after tax, of these funds from dividends, interest, rental charges and other income which are accumulated for the benefit of policy holders and members.

Item 14. Transfers to and from overseas. All transfers to or from overseas on public authority or private account which are not payments for goods and services or payments of dividends, interest, etc.

Item 14a. Personal transfers overseas. Gifts of money by resident persons and private institutions, payments for sustenance, and transfers of emigrants' funds and legacies from Australia to overseas, together with the value of goods exported as gifts.

Item 14b. General government transfers overseas. Grants to, and payments made on behalf of Papua New Guinea and expenditure overseas in respect of technical assistance and relief under the Colombo Plan and United Nations and other aid projects. Includes contributions to United Nations and other international organisations due by virtue of membership of these organisations.

Item 14c. Personal transfers from overseas. Gifts of money received from non-resident persons and private institutions, receipts for sustenance, and transfers of immigrants' funds and legacies from overseas to Australia, together with the value of goods imported as gifts.

Item 14d. Extraordinary insurance claims from overseas. Claims arising out of the Darwin cyclone of 25 December 1974. See also note to item 26.

Item 15. Income tax. Income tax payable by trading and financial companies (15a and 15c), life and superannuation funds (15b) and households (15d) are amounts payable at rates of taxation applicable in each year. Income tax payable by households includes the total income tax payable

by individuals on all forms of income, whether wages, business income or property income. *Increase in income tax provisions*, the difference between the amounts of income tax payable in respect of the income of the year and the cash receipts by general government during the year, is a component of the savings of the nation.

- Item 16. Undistributed income. The undistributed income of companies comprising trading enterprise companies (item 16a) and financial enterprise companies (item 16b) is the balance of company income, including dividends received from other sectors (items 13d and 13h) after deduction of income tax payable and dividends paid. No imputation is made to the beneficial owners and therefore the whole of the undistributed income is regarded as saving by resident enterprises. The income, and consequently the undistributed income, of financial enterprise companies includes increases in provisions for unexpired risks of casualty insurance companies and health insurance funds.
- Item 17. Retained income of public financial enterprises. The net income of public financial enterprises (mainly government banks and insurance offices) less payments from net income to general government. The payments to general government may be described in the accounts of the enterprises as dividends, income tax, payments in lieu of income tax or transfers of profit. The retained income of public financial enterprises includes increases in provisions for unexpired risks of government insurance offices on casualty insurance, but excludes net earnings on life insurance funds (item 13i).
- Item 18. Household saving. The excess of household income over the sum of private final consumption expenditure, interest paid, income tax payable, other direct taxes, fees, fines, etc., and transfers overseas. Household saving is estimated as the balancing item in the household income and outlay account. It includes saving through life insurance and superannuation funds (including net earnings on these funds) and the increase in assets with marketing boards. Household saving may also take the form of increases in holdings of cash and net purchases of securities, the net increase in bank deposits less advances, the reduction in the outstanding advances of instalment credit companies to households and the increase in the equity of households in dwellings and in capital equipment, buildings and stocks of unincorporated enterprises.
- Item 19. Surplus on general government current transactions. The excess of income, including the whole of the net income of public trading enterprises, over current outlay. Current outlay includes final consumption expenditure, as defined in item 2, and transfer payments (interest, cash benefits, subsidies, grants for private capital purposes, and transfers overseas). The surplus is transferred to the general government capital account where it is shown as part of total funds available for financing capital accumulation.
- Item 20. General government grants for private capital purposes. Grants to meet part of the costs of private capital expenditure, e.g. Home Savings grants, grants towards construction of science laboratories and libraries in private schools and of houses for aged persons, payments under the Currency Act in relation to the conversion of accounting and other machines following introduction of decimal currency; and compensation to primary industry marketing authorities for losses on overseas debts resulting from sterling devaluation.
- Item 21. Net lending. The excess of net acquisition of financial assets by transactors over their net incurrence of liabilities. The net lending to overseas is the balance on current transactions in the overseas transactions account. However, it should be noted that it differs from the balance on current account shown in the balance of payments statistics by the net amount of undistributed income accruing overseas. The concept of net lending to overseas includes additions to overseas monetary reserves.
- Item 22. Public enterprise income paid to general government. Includes the whole of the income of public trading enterprises and that part of the income of public financial enterprises which is paid to general government whether described by the enterprises as dividends, transfer of profits or as income tax. Public enterprise income for tracing enterprises (item 22a) is equal to net operating sur plus, being exclusive of interest received and before charging interest costs relating to the enterprises. (In principle interest receipts and payments of public corporate enterprises should be included in account 7 and only actual transfers to general government in account 10, but all interest costs and interest receipts of public trading enterprises are included with other interest transactions in the general government income and outlay account pending satisfactory identification of the interest relating to public trading enterprises.) Public enterprise income for financial enterprises (items 22b plus 17) is the net income after depreciation allowances, interest paid and working expenses are

deducted from receipts of interest and charges for services. Depreciation allowances deducted in arriving at the income of public trading and financial enterprises are those shown in their published accounts, except in the case of some trading enterprises whose accounts, included in the Commonwealth or State budgets, are analysed on the basis of their cash accounts (in which depreciation is not charged).

Item 23. Transfers to persons. Consists of cash benefits (item 23a) and unfunded employee retirement benefits (item 23b). Cash benefits includes current transfers to persons from general government in return for which no services are rendered or goods supplied. Principal components are scholarships, hospital, medical, pharmaceutical, maternity, sickness and unemployment benefits; child endowment, widows', age, invalid and repatriation pensions; payments to trainee teachers; and attendance money for waterside workers. Unfunded employee retirement benefits covers direct payments of pensions, etc., to employees by way of unfunded retirement benefit schemes.

Item 24. Other direct taxes, fees, fines, etc. Estate and gift duties paid and all other taxes, fees for services of a regulatory character, fines and gifts paid by persons to general government. Also included are employee contributions to unfunded retirement benefit schemes.

Item 25. Third party insurance transfers. These are amounts which are indirectly transferred from insured enterprises to persons in respect of claims paid to persons on third party motor vehicle and public risk insurance policies taken out by enterprises. The estimates of these claims have been allocated between trading enterprise companies (item 25a) and unincorporated enterprises (item 25b). No amount has been allocated to financial and public enterprises.

Item 26. Extraordinary insurance claims paid. Claims paid by casualty insurance companies relate to the excess of actual claims over 'normal' claims for the year 1974-75. This excess resulted from claims for damages caused by the Darwin cyclone of 25 December 1974. These insurance claims are given special treatment in the accounts in order not to distort the estimates (by sector) of gross operating surplus, depreciation and disposable income.

CHAPTER 17

PRIVATE FINANCE

Current information on the subjects dealt with in this chapter is contained in the Monthly Review of Business Statistics (1.4), the Digest of Current Economic Statistics (1.5) (monthly), and the following mimeographed statements: monthly—Banking Statistics (5.2); Major Trading Banks Statistics (preliminary statement) (5.3); Savings Bank Statistics (preliminary statement) (5.28); Housing Finance for Owner Occupation—Savings Banks and Trading Banks (5.57); Life Insurance Statistics (5.17); Finance Companies (5.14); Instalment Credit for Retail Sales (5.46); Housing Finance for Owner Occupation—Permanent Building Societies (5.58); Housing Finance for Owner Occupation (5.56); quarterly—New Capital Raisings by Companies in Australia (bulletin (5.9) and preliminary statement (5.10)); Capital Expenditure by Private Business in Australia (5.8) (5.7); Unit Trusts, Land Trusts and Mutual Funds (5.31). Other relevant annual mimeographed bulletins are Life Insurance (5.32); General Insurance, Australia (5.16); Government Pension and Superannuation Schemes (5.23); Survey of Selected Private Pension Funds (5.25); Finance Company Transactions (5.13); and Building Societies, Australia (5.5).

MONEY

Currency

Australia has a decimal system of currency, the unit being the dollar which is divided into 100 cents. Decimal coins and notes became legal tender on the 14 February 1966. Before that date the Australian currency unit was the pound divided into 20 shillings each of 12 pence. One dollar in the present currency is equal to 10 shillings in the old currency.

The Reserve Bank Act 1965 authorised the Reserve Bank of Australia to issue Australian notes in denominations of \$1, \$2, \$5, \$10, \$20, and \$50, and any other denomination that the Treasurer, by instrument in writing published in the Gazette, determines. All Australia's coin requirements are met by the Royal Australian Mint, Canberra.

For additional information on note issue and coinage refer to List of Special Articles, etc., at end of this Year Book.

AUSTRALIAN NOTES IN CIRCULATION (\$'000)

| | | | 1972 | 1973 | 1974 | 1975 | 1976 |
|----------------|---|----|-----------|-----------|-----------|-----------|-----------|
| St and 10s . | | _ | 43,552 | 48,487 | 53,196 | 52.657 | 53,561 |
| \$2 and £1 . | | i. | 118,451 | 123,670 | 130,195 | 129,098 | 127,834 |
| \$ 5 | | | 85,283 | 94,378 | 103,525 | 110,239 | 116,407 |
| \$10 and £5 . | | | 560,268 | 639,899 | 701,083 | 675,172 | 655,151 |
| \$20 and £10 . | | | 691,476 | 851,381 | 960,629 | 1,186,745 | 1,334,591 |
| \$50 | | | | | 197,462 | 403,158 | 633,848 |
| £50 | | | 38 | 8 | 8 | 7 | 3 |
| £100 | | | 31 | 19 | 18 | 17 | 12 |
| Total . | | | 1,499,099 | 1,757,842 | 2,146,116 | 2,557,092 | 2,921,408 |
| Held by Banks | • | | 182,648 | 229,222 | 300,787 | 339,943 | 352,500 |
| Held by Public | | | 1,316,451 | 1,528,620 | 1,845,329 | 2,217,149 | 2,568,908 |

AUSTRALIAN DECIMAL COIN: COSTS OF COIN ISSUED (\$'000)

| | | Cost of metal | Cost of minting | Freight and sundry charges | Total cost | Face value of coin issued | Surplus |
|---------------|---|------------------|-----------------|----------------------------|---------------|---------------------------------|---------|
| Cupro-nickel— | - | | | | | - | |
| 1970-71 . | | 974 - | 960 | 65 | 1,999 | 15,050 | 13,051 |
| 1971-72 . | | 721 | 698 | 77 | 1,496 | 10,758 | 9,262 |
| 1972-73 . | | 738 | 1,010 | 55 | 1,803 | 11,190 | 9,387 |
| 1973-74 . | | 1,298 | 1,333 | 67 | 2,699 | 16,600 | 13,901 |
| 1974–75 . | | 1,731 | 2,190 | 158 | 4,080 | 22,454 | 18,374 |
| Bronze— | | | | | | | |
| 1970-71 . | | 703 | 675 | 36 | 1,414 | 2,068 | 654 |
| 1971-72 . | | 594 | 738 | 24 | 1,356 | 2,185 | 829 |
| 1972-73 . | | 712 | 1,066 | 46 | 1,824 | 2,795 | 971 |
| 1973-74 . | | 1,343 | 1,708 | 97 | 3,148 | 4,179 | 1,031 |
| 1974-75 . | | 756 | 1,719 | 111 | 2,587 | 2,994 | 407 |
| Total— | | | | | | | |
| 1970-71 . | | 1,677 | 1,635 | 101 | 3,413 | 17,118 | 13,705 |
| 1971-72 . | | 1,315 | 1,436 | 101 | 2,852 | 12,943 | 10,091 |
| 1972-73 . | | 1,450 | 2,076 | 101 | 3,627 | 13,985 | 10,358 |
| 1973-74 . | | 2,641 | 3,041 | 165 | 5,847 | 20,779 | 14,932 |
| 1974-75 . | _ | 2,487 | 3,910 | 270 | 6,667 | 25,449 | 18,782 |

AUSTRALIAN DECIMAL COIN: VALUE OF COIN ISSUED (\$'000)

| Year e | nded | 30 J u | ne— | 50 cents | 20 cents | 10 cents | 5 cents | 2 cents | 1 cent | Total |
|--------|------|---------------|-----|----------|----------|----------|---------|---------|--------|--------|
| 1971 | | | | 7,420 | 3,640 | 2,090 | 1,900 | 1,150 | 919 | 17,119 |
| 1972 | | | | 4,418 | 3,360 | 1,740 | 1,240 | 1,370 | 815 | 12,943 |
| 1973 | | | | 3,970 | 3,380 | 2,040 | 1,800 | 1,700 | 1,095 | 13,985 |
| 1974 | | | | 5,406 | 4,990 | 3,039 | 3,165 | 2,689 | 1,490 | 20,779 |
| 1975 | | | | 7,027 | 7,627 | 4,555 | 3,245 | 1,877 | 1,117 | 25,449 |

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Overseas exchange rates

In the following table the rates shown are mainly the averages of daily quotations by the Commonwealth Trading Bank of Australia, and in other cases are the rates used by the Bureau of Customs in converting import values to Australian dollars for purposes of calculating customs duty.

OVERSEAS EXCHANGE RATES: AVERAGE TELEGRAPHIC TRANSFER SELLING RATES FOR SYDNEY ON OVERSEAS COUNTRIES, 1975-76

| | | Australian decimal currency equivalents | | | Australian decimal currency equivalents |
|--|-----------------------|---|---|--|--|
| Country | Basis of quotation | Selling rate 1975-76 | Country | Basis of quotation | Selling rate 1975–76 |
| America, United States of Austria Belgium(a) (financial) (convertible) Canada China, People's Rep. of Denmark Fiji France Germany, Fed. Rep. of Greece Hong Kong | Dollars to \$A1 | 1.2588 22.80 50.11 48.65 1.2598 2.435 7.56 1.076 5.622 3.213 43.11 6.250 11.135 | Italy. Japan Netherlands New Zealand Norway Noumea Philippines Singapore South Africa, Republic of Spain Sri Lanka Sweden Switzerland Taiwan United Kingdom | Lire to \$A1 Yen to \$A1 Guilders to \$A1 Dollars to \$A1 Kroner to \$A5 Kroner to \$A6 Francs to \$A1 Pesos to \$A1 Dollars to \$A1 Rands to \$A1 Rupees for \$A1 Kroner to \$A1 Francs to \$A1 Rupees for \$A1 Kroner to \$A1 Dollars to \$A1 Pounds to \$A1 | 925 376.06 3.336 1.191 6.88 102.24 9.214 3.090 1.0376 77.73 9.789 5.466 3.250 25.31 |

⁽a) Two rates quoted from 20 September 1971: 'convertible' rate for trade transactions accompanied by documentation and 'financial' rate for other transactions.

Volume of money

The statistics of volume of money compiled by the Reserve Bank of Australia include notes and coin in the hands of the public, deposits of the public with trading banks and deposits with all savings banks. As far as possible, all components of this series in the table below have been calculated on a weekly average basis. Deposits of the public with trading banks comprise the actual weekly average of current and fixed deposits with trading banks less both the actual weekly average of the Commonwealth and State Government current and fixed deposits and a weekly average of inter-bank current and fixed deposits. Inter-bank deposits mainly comprise savings bank deposits with trading banks and deposits of overseas banks with trading banks in Australia. Certificates of deposit include any holdings by the Commonwealth and State Governments and banks. Deposits of the public with trading banks also include the actual weekly average of deposits of the public with the Reserve Bank of Australia. Deposits with all savings banks comprise an interpolated "weekly average" based on end-of-month figures of total deposits with all savings banks.

VOLUME OF MONEY: AUSTRALIA (Source: Reserve Bank of Australia) (\$ million)

| Average of weekly figures for June | | | Notes and | Deposits of pubanks(a) | blic with al | l trading | Deposits | Total | | |
|------------------------------------|-----|---|-----------|-------------------------------|--------------|-----------|-----------------------------|---------------------------------|-----------------------------|-----------|
| | | | | coin in hands of public | Current | Fixed | Certificates of deposits | with all savings banks(b) | Total volume of money | |
| 1972(c) |) . | | | • | 1,467 | 4,328 | 3,260 | 113 | 8,339 | 17,508 |
| 1973(<i>c</i>) |) . | • | | | 1,702 | 5,615 | 4,108 | 447 | 10,129 | 22,001 |
| 1974 | | | | | 1,957 | 5,424 | 3,943 | 2,556 | 11,139 | 25,018 |
| 1975 | | | | | 2,356 | 5,971 | 6,740 | 1,144 | (d)12,656 | (d)28,867 |
| 1976 | | | | | 2,754 | 6,788 | 7,577 | 1,077 | 14,651 | 32,846 |

⁽a) Current and fixed deposits exclude the Commonwealth and State Government and inter-bank deposits but include deposits of the public with the Reserve Bank; certificates of deposit include any holdings by the Commonwealth and State Governments and banks. (b) Interpolated 'Weekly average' based on end-of-month figures. (c) Includes Papua New Guinea. (d) Data from June 1975 have been revised to reflect a change in accounting procedure by one bank.

BANKING

The Australian banking system has developed along the lines of the United Kingdom system with widespread branch banking conducted by relatively few banks.

Development since federation

With federation in 1901 the new Commonwealth Parliament was given power, under Section 51 of the Commonwealth Constitution, to legislate with respect to 'Banking, other than State Banking, also State Banking extending beyond the limits of the State concerned, the incorporation of banks, and the issue of paper money'. In 1911 the Commonwealth entered the field of banking with the establishment of the Commonwealth Bank of Australia, which conducted both trading bank and savings bank operations. A separate Commonwealth Savings Bank was established in 1928.

Central bank

Central banking functions of the Commonwealth Bank developed gradually over the years prior to and during the second world war. In November 1935 a Royal Commission was appointed by the Commonwealth Government to inquire into the monetary and banking systems in operation in Australia and to report whether any, and if so what, alterations were desirable in the interests of the people of Australia as a whole, and the manner in which any such alterations should be effected. The Commission presented its report in July 1937, and a summary of the recommendations appears in Year Book No. 31, page 1010.

In 1945 the Commonwealth Government legislated to give full legal effect to the central banking functions already being exercised by the Commonwealth Bank of Australia and to regulate the banking system as a whole. The Commonwealth Bank of Australia further developed mainly as a central bank when from 3 December 1953 the Commonwealth Trading Bank of Australia was established to take over most of the general trading bank functions of the Commonwealth Bank of Australia.

Legislation in 1959 completed the separation of the trading and central banking functions of the Commonwealth Bank of Australia with the establishment of the Commonwealth Development Bank of Australia under the Commonwealth Banks Act 1959 to take over the Industrial Finance Department and Mortgage Bank Department of the Commonwealth Bank of Australia.

A new bank, the Reserve Bank of Australia, was established under the Reserve Bank Act 1959 as the nation's central bank to administer the provisions of a new banking Act (Banking Act 1959). A statutory corporation, the Commonwealth Banking Corporation, was set up under the Commonwealth Banks Act 1959 to control the Commonwealth Trading Bank of Australia, the Commonwealth Development Bank of Australia, and the Commonwealth Savings Bank of Australia.

Trading banks

Commercial banking in Australia is carried on by thirteen trading banks. Six large private trading banks together with the Commonwealth Trading Bank are generally referred to as the major trading banks. These banks provide widespread banking facilities throughout Australia. The remaining six banks comprise one small local bank, two overseas banks which have been represented in Australia for many years and three State-owned banks operating only within their respective States.

The major trading banks are as follows: Commonwealth Trading Bank of Australia, Australia and New Zealand Banking Group, The Bank of Adelaide, Bank of New South Wales, The Commercial Bank of Australia Ltd, The Commercial Banking Company of Sydney Ltd, and The National Bank of Australasia Ltd.

The other trading banks are: Bank of Queensland Ltd, Bank of New Zealand, Banque Nationale de Paris, The Rural Bank of New South Wales, State Bank of South Australia, The Rural and Industries Bank of Western Australia (Rural Department), and the Bank of China up to 20 December 1972

Term Loan Fund

Lending by trading banks is generally conducted on an overdraft basis. A departure from this practice followed discussions during 1961-62 involving the Commonwealth Government, the Reserve Bank and the major trading banks, which resulted in arrangements whereby the banks agreed to create a fund known as the Term Loan Fund, the resources of which would be employed to make loans for capital expenditure on production in the rural, industrial and (to a lesser extent) commercial fields and to finance exports. The loans would be made for fixed terms, varying usually between three and eight years. The term lending arrangements operated from April 1962.

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Farm Development Loan Fund

Discussions in March 1966 between the Commonwealth Government, the Reserve Bank and the major trading banks resulted in the establishment of a fund known as the Farm Development Loan Fund, from which resources would be available to provide rural producers, particularly smaller producers, with greater access to medium and long-term finance. The Fund was established in April 1966.

Savings banks

Prior to 1956 savings banks operations were conducted by the Commonwealth Savings Bank, two trustee savings banks in Tasmania, and State-owned banks in Victoria, South Australia and Western Australia. In January 1956 private savings banks were established as subsidiary companies by two of the private trading banks. By mid-1962 all the major private trading banks had established savings bank subsidiary companies. In May 1972 the Bank of New Zealand Savings Bank Limited was granted an authority to carry on savings bank business in Australia.

Development banks

The Commonwealth Development Bank of Australia was established by the Commonwealth Banks Act 1959 and commenced operations on 14 January 1960. The Australian Resources Development Bank was established by the major trading banks with the support of the Reserve Bank of Australia and commenced operations in February 1968. For further information on these banks see pages 526-7.

Current legislation

Operations of banks and banking in Australia are currently governed by (i) Commonwealth legislation enacted in 1959 in respect of banking other than State banking, and (ii) State legislation relating to the incorporation of banks and management of State banks.

Commonwealth banking legislation

- (a) The Banking Act 1959 applies to all banks operating in Australia including the external Territories of the Commonwealth except State banks trading in their own State. The objects of the Act are: (i) to provide a legal framework uniform throughout Australia for regulating the banking system; (ii) to safeguard depositors of the banks from loss; (iii) to provide for the co-ordination of banking policy under the direction of the Reserve Bank; (iv) to control the volume of credit in circulation and bank interest rates; (v) to mobilise and to provide machinery for the control of the foreign exchange and gold resources of the Australian economy. A summary of the main provisions of the Banking Act 1959 is given in Year Book No. 46, pages 759-60.
- (b) The Reserve Bank Act 1959 provides for the constitution and management of the Reserve Bank of Australia and the management of the Australian note issue.
- (c) The Commonwealth Banks Act 1959 provides for the constitution and management of the Commonwealth Banking Corporation, Commonwealth Trading Bank of Australia, Commonwealth Savings Bank of Australia, and the Commonwealth Development Bank of Australia.

The Commonwealth Banking Corporation is the controlling body for the Commonwealth Trading Bank, Commonwealth Savings Bank and Commonwealth Development Bank. Under the Banking Act 1959 the Corporation and its constituent banks are subject to the same central banking controls as are the private trading banks.

State banking legislation

The State Acts under which the various banks are incorporated differ. While some of the older banks were incorporated by special Act or Charter, e.g. the Bank of New South Wales by Act of Council 1817, the Bank of Adelaide by Act of the South Australian Parliament, and the Bank of New Zealand by Act of the General Assembly of New Zealand, most of the banks are incorporated under a companies Act of the States or the United Kingdom. This is also the case with those banks which were reconstructed after the financial crisis of 1893. State banks, constituted under State Acts, transacting general banking business are The Rural Bank of New South Wales, the State Bank of South Australia, and the Rural and Industries Bank of Western Australia. State savings banks, constituted under State Acts, transacting savings bank business are The State Savings Bank of Victoria, The Savings Bank of South Australia and the Savings Bank Division of the Rural and Industries Bank of Western Australia.

Reserve Bank of Australia

The Reserve Bank of Australia preserved and continued in existence the original corporate body known as the Commonwealth Bank of Australia under the new name Reserve Bank of Australia. An account of the progress and development of that bank is given in earlier issues of the Year Book (see No. 37, pages 570–2, and No. 45, pages 735–7).

The general functions of the Reserve Bank are set out in Section 10 of the Reserve Bank Act 1959, which states:

'It is the duty of the Board, within the limits of its powers, to ensure that the monetary and banking policy of the Bank is directed to the greatest advantage of the people of Australia and that the powers of the Bank under this Act, the *Banking Act* 1959, and regulations under that Act are exercised in such a manner as, in the opinion of the Board, will best contribute to,

(a) the stability of the currency of Australia; (b) the maintenance of full employment in Australia; and (c) the economic prosperity and welfare of the people of Australia.'

In addition to its functions as a central bank, the Bank controls the Australian note issue through a Note Issue Department, provides special banking facilities through the Rural Credits Department, and acts as banker to the Commonwealth and some of the States.

Management

The policy of the Reserve Bank is determined by a Board consisting of the Governor (Chairman) the Deputy Governor, the Secretary to the Treasury, and seven other members appointed by the Governor-General. The Bank is managed by the Governor, who acts in accordance with the policy of the Board and with any directions of the Board. The Bank is required to inform the Government of the monetary and banking policy of the Board. In the event of a disagreement between the Government and the Board as to whether the monetary and banking policy of the Bank is directed to the greatest advantage of the people of Australia, the Governor-General, acting with the advice of the Executive Council, may determine the policy to be adopted by the Bank.

Central banking business

Under the Commonwealth Bank Act 1911 and the war-time powers conferred by the National Security Regulations the Commonwealth Bank gradually assumed the functions of a Central Bank. Part III of the Commonwealth Bank Act 1945 formally constituted the Bank as a Central Bank and granted the necessary powers to carry on the business of a Central Bank, these powers being carried through into the present Act constituting the Reserve Bank. Under the provisions of the Reserve Bank Act 1959 the capital for the Central Banking Business is the capital of the Commonwealth Bank for Central Banking purposes immediately prior to 14 January 1960, and such other sums as are transferred from the Reserve Bank Reserve Fund. The profits of the Bank are distributed as follows: (a) such sums as the Treasurer, after consultation with the Bank, determines shall be placed to the credit of the Reserve Bank Reserve Fund and (b) the remainder shall be paid to the Commonwealth.

Note Issue Department

The Note Issue Department, established in 1920 when the control of the Australian note issue was transferred from the Commonwealth Treasury to the Commonwealth Bank, was maintained in the same form under the Reserve Bank Act 1959. The Reserve Bank may, through this Department, issue, re-issue and cancel Australian notes. Under the Reserve Bank Act 1959 the profits of the Note Issue Department are paid to the Commonwealth.

Rural Credits Department

The Rural Credits Department, established in 1925 for the purpose of making short-term credit available for the orderly marketing of primary produce, was continued in the same form under the Reserve Bank Act 1959. The Reserve Bank may, through this Department, make advances upon the security of primary produce placed under the legal control of the Bank, or other security associated with the production or marketing of primary produce, to co-operative associations or marketing boards formed under the laws of the Commonwealth or a State or Territory of the Commonwealth or other bodies specified by proclamation. The period of the advance shall not exceed one year. Under the provisions of the Reserve Bank Act 1959 the capital of the Rural Credits Department is the capital of the Rural Credits Department of the Commonwealth Bank immediately prior to 14 January 1960, and \$4,000,000 provided by the Reserve Bank. The profits of the Rural Credits Department are dealt with as follows: (a) one-half to the credit of the Rural Credits Department Reserve Fund and (b) one-half to the credit of the Rural Credits Development Fund.

RESERVE BANK OF AUSTRALIA: LIABILITIES (\$ million)

| | | | Special | | Deposits of t banks | trading | | Other | |
|--------------------------------------|--------------------------------------|---------------------------------|--|---|---|--------------------------------------|---|--|--|
| 30 June— | Capital and Develop- reserve ment | | reserve— I.M.F. special drawing rights | Australian notes on issue | Statutory reserve deposit accounts | Other | Deposits of savings banks | deposits, bil's payable and other liabilities | Total |
| | | | CEN | TRAL BA | NKING BU | SINESS | | | |
| 1972 . 1973 . 1974 . 1975 . | 65.6 45.6 45.6 45.6 45.6 | | 201.6 192.4 183.4 207.0 200.6 | | 554.2 784.1 912.8 417.9 779.7 | 88.9 39.4 13.9 37.8 74.6 | 802.9 1,323.0 1,052.7 908.0 1,053.9 | 2,094.9 2,346.7 2,961.7 2,897.9 2,286.9 | 3,808.1 4,731.2 5,169.9 4,514.1 4,441.3 |
| | | | NO | TE ISSUE | DEPARTN | MENT | | | |
| 1972 . 1973 . 1974 . 1975 . | | | ·· ·· ·· | 1,508.2 1,767.4 2,163.8 2,545.1 2,921.4 | | | :: | 59.2 24.0 24.7 25.3 83.7 | 1,567.4 1,791.4 2,188.4 2,570.4 3,005.1 |
| | | | RURA | L CREDI | TS DEPAR | TMENT | | | |
| 1972 . 1973 . 1974 . 1975 . | 20.0 20.7 21.5 22.6 23.8 | 1.1 0.7 1.0 1.1 1.4 | | | | | | 239.7 184.5 179.7 179.6 156.3 | 260.8 206.0 202.2 203.4 181.5 |
| | | | | T | TAL | | | | |
| 1972 . 1973 . 1974 . 1975 . | 85.6 66.3 67.1 68.2 69.3 | 1.1 0.7 1.0 1.1 | 201.6 192.4 183.4 207.0 200.6 | 1,508.2 1,767.4 2,163.8 2,545.1 2,921.4 | 554.2 784.1 912.8 417.9 779.7 | 88.9 39.4 13.9 37.8 74.7 | 802.9 1,323.0 1,052.7 908.0 1,053.9 | (a)1,361.6 (a)1,573.5 (a)2,100.0 (a)1,539.7 (a)1,269.7 | (a)4,604.1 (a)5,746.9 (a)6,494.5 (a)5,724.8 (a)6,370.8 |

(a) Inter-departmental accounts have been offset.

RESERVE BANK OF AUSTRALIA: ASSETS (\$ million)

| 30 June- | Gold and balances held abroad (a) | Other overseas securities | Australian notes, coin | Australian Govern- ment securities (b) | Cheques and hills of other banks | Loans, advances, bills dis- counted, all other assets(c) | Bank premises (d) | Bills receivable and remit- tances In transit | Total |
|--------------------------------------|--|--|-----------------------------------|--|---|---|--------------------------------------|--|---|
| | | | CENT | RAL BAN | KING BU | JSINESS | - | | |
| 1972 . 1973 . 1974 . 1975 . | 2,680.5 3,152.1 2,862.4 2,976.7 n.a. | 376.2 525.8 280.7 120.5 n.a. | 12.3 9.7 8.2 8.7 n.a. | 299.2 411.0 880.0 593.9 818.4 | 4.7 9.4 16.9 46.9 n.a. | 297.2 446.0 916.3 522.4 n.a. | 41.6 49.5 49.4 50.0 53.4 | 96.3 127.6 156.0 195.0 n.a. | 3,808.1 4,731.2 5,169.9 4,514.1 4,441.3 |
| | | | NOT | E ISSUE | DEPART | MENT | | | |
| 1972 . 1973 . 1974 . 1975 . | 296.6 199.8 141.1 177.5 n.a. | 234.7 226.7 126.5 62.6 n.a. | | 199.5 197.4 516.6 633.8 1,038.3 | | (e)834.7 (c)1,165.5 1,401.7 1,693.9 n.a. | 1.8 2.0 2.4 2.6 3.0 | | 1,567.4 1,791.4 2,188.4 2,570.4 3,005.1 |
| | _ | | RURA | L CREDIT | S DEPAR | TMENT | | | |
| 1972 1973 1974 1975 | ·· ·· ·· | | | :: | | 260.8 206.0 202.2 203.4 181.5 | | :: | 260.8 206.0 202.2 203.4 181.5 |
| | | | | тот | AL(/) | | | | |
| 1972 . 1973 . 1974 . 1975 . | 2,977.1 3,351.9 3,003.5 3,154.2 n.a. | 610.9 752.4 407.2 183.1 n.a. | 12.3 9.7 8.2 8.7 n.a. | 498.8 608.4 1,396.6 1,227.7 1,856.7 | 4.7 9.4 16.9 46.9 n.a. | 360.5 835.8 1,454.2 856.5 658.6 | 43.5 51.6 51.8 52.6 56.5 | 96.3 127.6 156.0 195.0 n.a. | 4,604.1 5,746.9 6,494.5 5,724.8 6,370.8 |

⁽a) Includes currency at short call and International Monetary Fund drawing rights.
(b) Includes Treasury bills and Treasury notes.
(c) After deducting provision for debts considered bad or doubtful.
(d) At cost, less amounts written off.
(e) Includes interest-bearing deposit account established with the Central Bank.
(f) Inter-departmental accounts have been offset.

RESERVE BANK OF AUSTRALIA: NET PROFITS

(\$ million)

| | | | | | | Distributed t | ·o— | | |
|--------------------|---|--------------------------------|--------------------------|----------------------------|------------|-----------------------------------|-------------------------|----------------------------|-----------------------|
| | | Canada | Note | Rural | | C | Reserve | Rural Credit Department | 5 |
| _ | | Central Banking Business | Issue Depart- ment | Credits Depart- ment | Total | Common- wealth of Australia | Bank Reserve fund | Reserve fund | Develop- ment furd |
| 1971-72 | | 4.9 | 25.2 | 1.5 | 31.6 | 25.2 | 4.9 | 0.7 | 0.7 |
| 1972-73 1973-74 | ٠ | • • | • • | 1.3 1.7 | 1.3 1.7 | • • | | 0.6 0.8 | 0.6 0.8 |
| 1974-75 | : | | | 2.2 | 2.2 | | | 1.1 | 1.1 |
| 1975-76 | ٠ | | | 2.3 | 2.3 | :: | | 1.2 | 1.2 |

Trading banks

Balance sheet information contained in the table on page 517 and profit and loss account information contained in the table at the top of page 518 for the years 1970 to 1974 does not relate to uniform accounting periods but rather to the financial years of the banks which ended in the years shown.

Figures shown for averages of liabilities and assets in the table on page 518 are the average of liabilities and assets within Australia (including External Territories and up to 1973, Papua-New Guinea) of the banks on the weekly balance days (Wednesdays) during the period concerned. In the table on page 519 figures shown for debits to customers' accounts are the average of debits for the weeks ending on the weekly balance days (Wednesdays) during the period concerned. In the table on page 520 figures shown for new and increased lending commitments are the averages of weekly commitments for the six months ending on the second Wednesday of the last month in the period under review.

In the classification of bank advances, borrowers are classified into two main groups.

Resident borrowers comprising all institutions (including branches of overseas institutions) engaged in business in Australia and individuals permanently residing in Australia, and

Non-resident borrowers comprising all other persons and institutions, including companies incorporated abroad, which, although represented, do not carry on business in Australia.

Advances to resident borrowers are classified into.

Business advances which are advances to partnerships, companies and other institutions engaged in business in Australia, advances to individuals actively engaged in business or a profession on their own behalf if the advances are mainly for purposes of that business or profession, and advances to mutual, co-operative and benefit societies which distribute their profits to members by way of dividends, rebates of charges for goods and services, or increased benefits.

Separate figures are shown for business advances to companies and to other (unincorporated) businesses and advances are also classified to the main industry of borrower.

Advances to public authorities which are advances to local and semi-government authorities including separately constituted government business undertakings but not the Australian and State governments.

Personal advances which are advances to individuals for purposes other than carrying on a business or profession.

Advances to non-profit organisations which are advances to organisations which are not operated for the purpose of making a profit or gain to individual members, but for the purposes of the organisations or for the benefit of the community in general.

The classification used for overdraft limits is the same as that used for the classification of bank advances (see above) while abridged versions of this classification are used for bank deposits and new and increased lending commitments.

Interest rates

At 30 June 1976 the maximum rate of interest paid by trading banks for the following terms were: (i) on fixed deposits of less than \$50,000, 3 months and less than 6 months—8.25 per cent. 6 months and less than 2 years—8.75 per cent, 2 years and less than 4 years—9.50 per cent; (ii) on fixed deposits of \$50,000 and over, 30 days to 4 years—10.00 per cent (iii) on certificates of deposit (\$50,000 and over), 3 months to 4 years—not subject to maximum rate. The maximum rate of interest charged on overdrafts under \$100,000 was 10.50 per cent and the maximum flat rate on unsecured personal loans was 7.75 per cent.

Branches and agencies

At 30 June 1975 the major trading banks operated 4,587 branches, and the other trading banks 319 branches. Of the total of 4,906 branches, 2,534 were located in 'metropolitan areas'. Trading bank facilities were also available at 1,303 agencies throughout Australia at 30 June 1975.

Liabilities and assets

TRADING BANKS(a): LIABILITIES AND ASSETS(b) (\$ million)

LIABILITIES

| | | Paid-up capital | Reserve funds (used in business of bank) | Final dividend proposed | Balance of profit und loss account | Total share- holders' funds or total capital and reserve funds | Balances due to other banks | Deposits, bills payable and other liabilities(c) | Total |
|------------------|---|--------------------|--|-------------------------------|---|---|--------------------------------------|--|----------------------|
| 1970 . 1971 . | | 358.6 326.7 | 253.7 273.4 | 12.6 13.3 | 27.3 30.4 | 652.1 643.7 | 460.5 690.8 | 9,295.3 10,009.0 | 10,407.9 11,343.6 |
| 1972 . | • | 341.5 | 313.2 | 16.0 | 33.5 | 704.1 | 801.1 | 11,981.7 | 13,487.0 |
| 1973 . | | 376.9 | 388.1 | 19.3 | 35.6 | 819.9 | 798.3 | 15,659.9 | 17,278.1 |
| 1974 . | | 417.4 | 467.6 | 21.7 | 39.0 | 945.7 | 1,296.0 | 17,929.1 | 20,170.8 |

| | | | Money t at short call | Australian pi | ublic securiti | 'es | | | Loans to authorised dealers in short-term money market 132.2 155.6 297.9 294.5 303.7 |
|--|---|---|--------------------------------------|--|---|--|---|---|--|
| | | Coin, bullion, | | Australian Government | | Local | | | |
| | | notes and cash at Reserve Bank | | Treasury bills and notes | Other securities | and semi- government authorities | Other public securities | Other securities | |
| 1970 . 1971 . 1972 . 1973 . 1974 . | : | 252.6 220.0 208.3 219.7 313.7 | 49.6 49.7 58.8 81.6 96.4 | 92.7 106.5 258.9 186.5 203.0 | 1,244.3 1,427.1 2,100.7 2,258.5 2,059.0 | 47.3 50.8 60.1 64.8 71.3 | 39.3 71.6 172.0 258.3 114.1 | 229.4 273.4 310.4 400.3 423.4 | |

| | | Statutory reserve deposit account with Reserve Bank | Cheques and bills of, and balances with and due from other banks | Loans(d), advances and bills discounted | Bank premises, furniture and sites | Bills receivable and re- mittances in transit | All other assets | Total |
|--------|---|---|--|--|---|---|---------------------|------------|
| 1970 . | : | 632.0 | 400.4 | 5,707.6 | 199.2 | 1,181.7 | 199.7 | 10,407.9 |
| 1971 . | | 611.6 | 511.3 | 6,179.8 | 178.5 | 1,271.8 | 235.9 | 11,343 6 |
| 1972 . | | 566.4 | 753.2 | 6,866.8 | 199.7 | 1,378.8 | 255.0 | 13,487.0 |
| 1973 . | | 905.1 | 837.9 | 9,612.4 | 217.3 | 1,549 2 | 392.0 | 17,278 1 |
| 1974 . | | 626.4 | 962.8 | 11,611.7 | 248.3 | 2,139.8 | 997.2 | 20,170 . 8 |

⁽a) Excludes the overseas banks but includes the deposits and assets held against those deposits of the Savings Bank Division of the Rural and Industries Bank of Western Australia. (b) This table relates to liabilities and assets both inside and outside Australia. (c) Includes provisions for contingencies. (d) Other than loans to authorised dealers in the short-term money market.

TRADING BANKS(a): PROFIT AND LOSS, APPROPRIATION OF PROFITS(b) (\$ million)

| | | Profit and | loss | | | Profits appropriated to— | | | | |
|--|---|---|---|---|--------------------------------------|--------------------------------------|-------------------------------------|---------------------------------|--------------------------------------|--|
| | | Net earnings (c) | Expenses (d) | Income, land and other taxes and payments in lieu of taxes | Net profit | Reserve funds (e) | Writing- off bank premises | Other appro- priations | Dividends paid and proposed | |
| 1970 . 1971 . 1972 . 1973 . 1974 . | : | 478.9 525.6 586.8 707.6 875.2 | 378.9 443.0 489.8 561.8 721.7 | 43.8 36.2 42.7 71.5 74.8 | 56.3 46.3 54.3 74.4 78.7 | 15.8 12.6 17.0 30.8 29.7 | 1.0 1.0 1.1 1.1 0.8 | 3.1 3.9 3.9 4.9 4.0 | 31.1 25.8 28.8 33.6 41.4 | |

⁽a) Excludes the overseas banks. (b) Includes profit and loss on account of the Savings Bank Division of the Rural and Industries Bank of Western Australia. (c) Discount and interest earned, net exchange, commissions and other items (including transfers from contingencies accounts) after deducting interest paid and accrued on deposits, rebate on bills current at balance date, amounts written off assets and losses on realisation of assets, and transfers to the credit of contingencies accounts (out of which accounts provision for all bad and doubtful debts has been made). (d) Includes directors' fees. (e) Excludes accumulated profits and profit and loss accounts.

ALL TRADING BANKS: AVERAGE LIABILITIES AND ASSETS(a) WITHIN AUSTRALIA(b) (\$ million)

LIABILITIES(c)

| | | | | | Deposits re | payable in Au | stralia | | | Bills | |
|----------------------|---|-------|---------------------|----------------------------|-------------------------------|--------------------------------------|--|----------------------------------|-------------------------|-------------------------------|----------------------------------|
| | | | | | | Current | | | Deleness | payable and all | |
| June | | Fixed | Bearing interest | Not bearing interest | Total | Balances due to other banks | other liabilities to the public | Total | | | |
| 1972 1973 | : | : | : | : | 3,742.1 5,152.2 | 538.0 648.6 | 4,042.0 5,271.7 | 8,322.1 11,072.5 | 372.0 351.0 | 559.3 726.3 | 9,253.4 12,149.7 |
| 1974 1975 1976 | : | • | <i>:</i> | : | 6,985.9 8,635.0 9,775.4 | 660.1 842.6 930.0 | 5,068.0 5,458.0 6,250.9 | 12,714.0 14,935.7 16,956.3 | 669.2 588.0 602.7 | 1,196.9 1,695.2 2,095.3 | 14,580.0 17,218.9 19,654.3 |

ASSETS(d)

| | | | | Coin, bullion, notes | | Australian Government securities | | Loans to author- ised dealers in short- | Statutory reserve deposit account | Loans(e), advances | | | |
|----------------------|---|---|---|-----------------------------------|--------------------------------|--|--|---|--|----------------------------------|-------------------------------|----------------------------------|--|
| June | | | | and cash at Reserve Bank | Treasury bills and notes | Other securities | semi- govern- ment securities | term money market | with Reserve Bank | and biils dis- counted | All other assets | | |
| 1972 1973 | : | : | : | 190.1 213.6 | 116.7 189.0 | 1,702.9 2,221.0 | 29.2 27.6 | 249.8 149.6 | 558.2 784.7 | 5,875.7 7,856.2 | 921.2 1,181.2 | 9,643 7 12,622.9 | |
| 1974 1975 1976 | : | : | : | 273.0 299.0 345.6 | 79.8 1,167.8 191.0 | 2,084.3 2,358.9 3,410.9 | 27.6 31.2 32.8 | 65.4 167.4 182.3 | 1,032.6 421.4 840.5 | 10,120.3 11,205.0 12,559.5 | 1,678.3 2,322.8 2,791.0 | 15,361.3 17,973.5 20,353.5 | |

⁽a) Figures shown for average of liabilities and assets are the average of liabilities and assets within Australia of the banks at the close of business on the weekly balance days (usually Wednesdays) during the period concerned. (b) Includes External Territories and up to 1973 Papua New Guinea. (c) Excludes shareholders' funds, inter-branch accounts and contingencies. (d) Excludes inter-branch accounts and contingencies. (e) Excludes loans to authorised dealers in the short-term money market.

TRADING BANKS: AVERAGE WEEKLY DEBITS TO CUSTOMERS' ACCOUNTS(a)

(\$ million)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|---------|---------|---------|-------|-------|-------|------|--------|----------|
| 1971-72 | 2,363.0 | 1,808.7 | 459.1 | 293.1 | 318.4 | 70.0 | 18.7 | 41.8 | 5,372.8 |
| 1972-73 | 3,058.0 | 2,306.7 | 597.5 | 336.4 | 355.9 | 85.3 | 17.8 | | 6,822.2 |
| 1973-74 | 3.397.5 | 2,642.5 | 753.4 | 414.6 | 439.4 | 103.0 | 19.3 | 73.9 | 7,843.7 |
| 1974-75 | 3,805.9 | 2,898.8 | 817.9 | 456.6 | 515.9 | 119.4 | 22.7 | 78.6 | 8,715.6 |
| 1975-76 | 4,462.1 | 3,808.0 | 1,027.4 | 578.0 | 680.0 | 150.2 | 27.8 | | 10,851.6 |

⁽a) Covers all trading banks and in addition the Rural Credit Department of the Reserve Bank and the Commonwealth Development Bank. Excludes debits to the Australian and State Government accounts in capital cities.

Major Trading Banks: classification of bank advances, deposits, new and increased lending commitments and overdraft limits

For an explanation of items in the following table see notes on page 516.

CLASSIFICATION OF TOTAL ADVANCES WITHIN AUSTRALIA(a)

| | At second We | At second Wednesday of— | | | | | | | | | |
|--|--------------------------|-------------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|--|--|--|
| | July 1974 | | January 19 | 75 | July 1975 | | January 19 | 76 | | | |
| | Amount (\$m) | Per cent | Amount (\$m) | Per cent | Amount (\$m) | Per cent | Amount (\$m) | Per cent | | | |
| Resident borrowers— Business advances— | | | | | | | - | | | | |
| Agriculture, grazing and dairying | 1,161.4 1,460.1 | 12.9 16.2 | 1,133.8 1,559.3 | 12.0 16.5 | 1,220.2 1,527.9 | 12.1 15.1 | 1,179.0 1,459.3 | 11.4 14.2 | | | |
| Transport, storage and communication Finance— | 165.2 | 1.8 | 182.1 | 1.9 | 199.3 | 2.0 | 198.1 | 1.9 | | | |
| Building and housing societies. | 78.4 | 0.9 | 68.6 | 0.7 | 51.5 | 0.5 | 51.7 | 0.5 | | | |
| Other | 506.6 | 5.6 | 693.7 | 7.3 | 622.2 | 6.2 | 597.7 | 5.8 | | | |
| Total finance . | 585.1 | 6.5 | 762.4 | 8.1 | 673.6 | 6.7 | 649.5 | 6.3 | | | |
| Commerce— Retail trade Wholesale trade(b) | 558.0 653.0 | 6.2 7.2 | 516.2 650.8 | 5.5 6.9 | 568.1 577.3 | 5.6 5.7 | 551.4 636.3 | 5.4 6.2 | | | |
| Total commerce . | 1,211.0 | 13.4 | 1,166.9 | 12.4 | 1,145.4 | 11.3 | 1,187.7 | 11.5 | | | |
| Building and construction Other businesses Unclassified | 344.4 1,615.7 86.5 | 3.8 17.9 1.0 | 348.9 1,713.9 191.0 | 3.7 18.2 2.0 | 364.8 2,009.6 254.6 | 3.6 20.0 2.5 | 345.2 2,106.5 182.8 | 3.4 20.5 1.8 | | | |
| Total business advances | 6,629.3 | 73.5 | 7,058.2 | 74.9 | 7,395.4 | 73.3 | 7,308.1 | 70.9 | | | |
| Companies Other | 4,533.5 2,095.8 | 50.3 23.2 | 4,765.0 2,293.3 | 50.5 24.4 | 4,675.4 2,719.9 | 46.3 27.0 | 4,617.3 2,690.8 | 44.8 26.1 | | | |
| Advances to public authorities(c) Personal advances classified according to main purpose of advance— Building or purchasing | 96.2 | 1.0 | 144.6 | 1.5 | 116.7 | 1.2 | 204.4 | 2.0 | | | |
| own home (individu- als) | 629.8 | 7.0 | 620.8 | 6.6 | 614.2 | 6.1 | 629.5 | 6.1 | | | |
| Other (including personal loans) . | 1,554.1 | 17.2 | 1,481.3 | 15.7 | 1,834.2 | 18.2 | 2,028.9 | 19.7 | | | |
| Total personal . | 2,184.0 | 24.2 | 2,102.1 | 22.3 | 2,448.4 | 24.3 | 2,658.4 | 25.8 | | | |
| Advances to non-profit organisations | 98.1 | 1.1 | 110.0 | 1.2 | 111.0 | 1.1 | 123.8 | 1.2 | | | |
| Total advances to resident borrowers . | 9,007.6 | 99.8 | 9,415.0 | 99.8 | 10,071.5 | 99.8 | 10,294.7 | 99.9 | | | |
| Advances to non-resident borrowers | 16.6 | 0.2 | 15.0 | 0.2 | 19.6 | 0.2 | 12.7 | 0.1 | | | |
| Total all advances . | 9,024.2 | 100.0 | 9,430.0 | 100.0 | 10,091.0 | 100.0 | 10,307.4 | 100.0 | | | |

⁽a) Includes External Territories. and semi-government bodies.

⁽b) Includes temporary advances to woolbuyers.

⁽c) Includes local government

MAJOR TRADING BANKS: CLASSIFICATION OF DEPOSITS(a) WITHIN AUSTRALIA(b)

| A | At second Wednesday of- | | | | | | | | | | |
|--|-------------------------|-------------|--------------|-------------|--------------|--------------|--------------|-------------|--|--|--|
| _ | July 1974 | | January 19 | 75 | July 1975 | - | January 1976 | | | | |
| | Amount (\$m) | Per cent | Amount (\$m) | Per cent | Amount (\$m) | Per cent | Amount (\$m) | Per cent | | | |
| Resident depositors— | | | | | | | | | | | |
| Business deposits- | | | | | | | | | | | |
| Agriculture, grazing and | | | | | | | | | | | |
| dairying | 1,031.8 | 12.2 | 1,253.9 | 11.6 | 1,194.3 | 9.6 | 1,535.9 | 10.8 | | | |
| Manufacturing | 284.7 | 3.4 | 453.8 | 4.2 | 562.2 | 4.6 | 695.8 | 4.9 | | | |
| Transport, storage and | | | | | | | | | | | |
| _communication | 110.6 | 1.3 | 139.7 | 1.3 | 153.9 | 1.3 | 178.8 | 1.3 | | | |
| Finance | 579.2 | 6.9 | 724.3 | 6.7 | 1,182.8 | 9.5 | 1,451.6 | 10.2 | | | |
| Commerce | 546.1 | 6.5 | 761.4 | 7.0 | 692.4 | 5.6 | 859.4 | 6.0 | | | |
| Building and construction | 220.9 | 2.4 | 321.5 | 3.0 | 317.2 | 2.6 | 407.8 | 2.9 | | | |
| Other businesses | 1,219.2 | 14.4 | 1,371.4 | 12.7 | 1,620.7 | 13.1 | 1,749.4 | 12.3 | | | |
| Unclassified | 122.3 | 1.5 | 146.8 | 1.4 | 164.9 | 1.3 | 170.9 | 1.2 | | | |
| Total business deposits of which— | 4,114.8 | 48.7 | 5,172.8 | 47.8 | 5,888.3 | 4 7.6 | 7,049.7 | 49.4 | | | |
| Companies | 1.741.2 | 20.6 | 2,266.6 | 21.0 | 2,642.7 | 21.4 | 3,208.5 | 22.5 | | | |
| Other | 2,373.6 | 28.1 | 2,906.2 | 26.8 | 3,245.6 | 26.3 | 3,841.2 | 26.9 | | | |
| Deposits of public authorities | 482.3 | 5.7 | 766.9 | 7.1 | 1,144.0 | 9.3 | 1,333.7 | 9.4 | | | |
| Personal deposits Deposits of non-profit | 3,305.5 | 39.2 | 4,244.8 | 39.3 | 4,539.4 | 36.7 | 5,047.0 | 35.4 | | | |
| organisations | 408.2 | 4.8 | 497.8 | 4.6 | 646.7 | 5.2 | 690.5 | 4.8 | | | |
| Total resident depositors | 8,310.8 | 98.4 | 10,682.2 | 98.8 | 12,218.5 | 98.9 | 14,120.8 | 99.0 | | | |
| Total non-resident depositors . | 133.5 | 1.6 | 131.2 | 1.2 | 139.9 | 1.1 | 143.3 | 1.0 | | | |
| Total all depositors . | 8,444.3 | 100.0 | 10,813.4 | 100.0 | 12,358.4 | 100.0 | 14,264.1 | 100.0 | | | |

⁽a) Excludes deposits of the Australian and State Governments.

MAJOR TRADING BANKS: NEW AND INCREASED LENDING COMMITMENTS TO SELECTED INDUSTRIAL GROUPS(a)

(Source: Reserve Bank of Australia)

(\$ million)

| | Six month | is ended seco | ond Wedness | day of— | | | | | |
|-----------------------------------|------------|---------------------------|-------------|---------------------------|------------|---------------------------|------------|--------------------------|--|
| | July 1974 | | January 1 | January 1975 | | July 1975 | | January 1976 | |
| | Aggregate | Term loan component | Aggregate | Term loan component | .Aggregate | Term loan component | Aggregate | Term loan componen | |
| Business— | | | | | | | | | |
| Agriculture, grazing and dairying | (b)2i3.8 | 18.3 | (b)117.4 | 7.3 | (b)269.3 | 17.6 | (b)219.2 | 13.3 | |
| Manufacturing | 323.8 | 71.9 | 354.4 | 70.4 | 503.7 | 71.6 | 338.4 | 58.9 | |
| Finance | 105.5 | 0.6 | 102.9 | 0.6 | 198.4 | 0.8 | 78.6 | 1.3 | |
| Commerce | 241.8 | 19.3 | 209.3 | 6.2 | 347.0 | 15.4 | 305.3 | 19.1 | |
| Building and construction . | 92.1 | 2.5 | 60.9 | 3.5 | 140.3 | 8.4 | 109.2 | 2.9 | |
| Persons— | | | | | | | | | |
| Advances for building or | | | | | | | | | |
| purchase of own home (to | | | | | | | 072 0 | | |
| individuals) | 253.5 | • • | 116.3 | • • | 257.7 | | 272.8 | | |
| Other (including personal loans). | 486.2 | | 309.4 | | 736.8 | | 647.2 | | |
| All other . | .384.4 | 34.9 | 368.8 | 72.4 | 630.3 | 68.7 | 660.1 | 78.8 | |
| | | | | | | | | | |
| Total | (b)2,101.0 | 147.5 | (b)1,639.2 | 160.4 | (b)3,083.5 | 182.4 | (b)2,630.8 | 174.4 | |

⁽a) Excludes commitments in respect of temporary advances to woolbuyers. (b) Includes Farm Development Loan approvals: July 1974, \$24.1 million; January 1975, \$20.1 million; July 1975, \$47.3 million; January 1976, \$49.8 million.

⁽b) Includes External Territories.

MAJOR TRADING BANKS: CLASSIFICATION OF OVERDRAFT LIMITS OUTSTANDING(a)

(Source: Reserve Bank of Australia)
(\$ million)

| | | | Second Wed | inesday of- | | |
|---|----------|-------|--------------|-----------------|--------------|-----------------|
| | | | July 1974 | January 1975 | July 1975 | January 1976 |
| Resident borrowers— | | | | | | |
| Business overdraft limits- | | | | | | |
| Agriculture, grazing and dairying- | | | | | | |
| Mainly sheep grazing | | | 301.2 | 294.2 | 315.9 | 319.2 |
| Mainly wheat growing | | | 109.3 | 105.4 | 104.5 | 107.5 |
| Mainly dairying and pig raising. | | | 104.6 | 100.7 | 112.0 | 108.1 |
| Other | | | 449.9 | 441.9 | 493.7 | 506.7 |
| Total agriculture, etc | | | 965.0 | 942.2 | 1,026.0 | 1,041.7 |
| Manufacturing | • | • | 1.895.9 | 2,037.0 | 2,323.4 | 2,413.3 |
| Transport, storage and communication | on . | • | 185.5 | 209.6 | 234.3 | 221.3 |
| Finance— | | • | | | | |
| Building and housing societies . | | • | 121.0 | 151.1 | 127.4 | 131.6 |
| Pastoral finance companies . | | • | 111.5 | 105.9 | 108.4 | 103.8 |
| Hire purchase and other finance co | ompai | nies. | 273.5 | 277.2 | 272.2 | 272.6 |
| Other | • | • | 273.9 | 262.4 | 358.4 | 359.1 |
| Total finance | | | 779.9 | 796.5 | 866.4 | 867.2 |
| Commerce— | | | | | | |
| Retail trade | • | • | 726.3 | 736.5 | 824.9 | 859.3 |
| Wholesale trade | • | •_ | 663.7 | 725.5 | 816.4 | 833.7 |
| Total commerce | | | 1,390.0 | 1,462.0 | 1,641.2 | 1,693.0 |
| Building and construction | | • | 456.3 | 452.1 | 507.4 | 515.5 |
| Other business— | | | | | | |
| Mining | | | 2618 | 292.5 | 293.5 | 323.5 |
| Other | • | •_ | 1,400.8 | 1,412.8 | 1,596.2 | 1,728.8 |
| Total other business | | | 1,662.6 | 1,705.3 | 1,889.7 | 2,052.3 |
| Unclassified | • | | 116.7 | 111.6 | 137.4 | 154.9 |
| Total business overdraft limits . | | | 7,451.8 | 7,716.3 | 8,625.8 | 8,959.1 |
| Overdraft limits of public authorities | | | 295.0 | 319.7 | 336.2 | 472.1 |
| Personal overdraft limits— Building or purchasing own home | | | 762.3 | 715.6 | 724.3 | 746.7 |
| Other | • | • | 1,747.8 | 1,675.2 | 2,071.2 | 2,254.4 |
| Other | | • | 1,747.0 | 1,073.2 | 2,071.2 | |
| Total personal overdraft limits | . | • | 2,510.1 | 2,390.8 | 2,795.5 | 3,001.1 |
| Overdraft limits of non-profit organis | sation | ıs . | 166.2 | 178.4 | 191.8 | 201.0 |
| Total overdraft limits of resident bo | rrowe | rs . | 10,423.1 | 10,605.2 | 11,949.4 | 12,633.3 |
| Overdraft limits of non-resident borrowers | | | 16.3 | 17.9 | 19.0 | 13.0 |
| Total all overdraft limits | | | 10,439.4 | 10,623.1 | 11,968.4 | 12,646.2 |

⁽a) Excludes limits in respect of temporary advances to woolbuyers, term loans and farm development loans.

MAJOR TRADING BANKS: ADVANCES(a), BY RATE OF INTEREST (Source: Reserve Bank of Australia)

(Proportion at each rate to total-per cent)

| | At abo | ut end of- | | |
|---|--------------|------------------|--------------|------------------|
| Interest rate per annum | June 1974 | December 1974 | June 1975 | December 1975 |
| 6.5 per cent and less | 3.2 | 3.7 | 3.9 | 4.1 |
| More than 6.5 per cent, but less than 7.0 per cent . | 0.3 | 0.1 | 0.3 | 0.3 |
| 7.0 per cent | 0.2 | 0.1 | 0.2 | 0.2 |
| More than 7.0 per cent, but less than 7.5 per cent . | 0.8 | 0.3 | 0.3 | 0.5 |
| 7.5 per cent | 0.8 | 0.5 | 0.6 | 3.1 |
| More than 7.5 per cent, but less than 8.0 per cent . | 0.5 | 0.4 | 0.7 | 2.2 |
| 8.0 per cent | 1.3 | 0.4 | 0.7 | 2.4 |
| More than 8.0 per cent, but less than 8.5 per cent . | 0.7 | 0.3 | 0.6 | 1.2 |
| 8.5 per cent | 0.9 | 0.6 | 0.6 | 0.6 |
| More than 8.5 per cent, but less than 9.0 per cent. | 1.3 | 0.4 | 3.4 | 0.5 |
| 9.0 per cent | 4.6 | 1.1 | 1.6 | 0.3 |
| More than 9.0 per cent, but less than 9.5 per cent . | 2.1 | 1.1 | 3.2 | 0.4 |
| 9.5 per cent | 28.5 | 1.0 | 1.2 | 0.6 |
| More than 9.5 per cent, but less than 10.0 per cent . | 0.7 | 2.1 | 0.9 | 1.4 |
| | 0.9 | 1.6 | 0.8 | 1.2 |
| More than 10.0 per cent, but less than 10.5 per cent | 0.7 | 2.4 | 1.2 | 1.4 |
| 10.5 per cent | 0.7 | 0.9 | 1.0 | 0.8 |
| More than 10.5 per cent, but less than 11.0 per cent. | 0.6 | | 2.2 | 1.1 |
| 11.0 per cent | 8.7 | 3.3 | 17.6 | 10.7 |
| More than 11.0 per cent, but less than 11.5 per cent. | 1.9 | 1.7 | 4.7 | 9.7 |
| 11.5 per cent | 11.1 | 37.0 | 19.6 | 22.1 |
| More than 11.5 per cent, but less than 12.0 per cent. | 0.9 | 0.7 | 0.5 | 0.5 |
| 12.0 per cent | 11.2 | | 8.7 | 8.8 |
| More than 12.0 per cent, but less than 12.5 per cent. | 2.9 | | 2.1 | 1.0 |
| 12.5 per cent | 4.0 | | 6.3 | 6.9 |
| More than 12.5 per cent, but less than 13.0 per cent. | 0.7 | | 0.8 | 0.9 |
| 13.0 per cent | 2.1 | 5.0 | 4.5 | 5.3 |
| More than 13.0 per cent, but less than 13.5 per cent. | 1.1 | | 1.0 | 0.9 |
| 13.5 per cent | 1.0 | | 5.1 | 5.4 |
| More than 13.5 per cent, but less than 14.0 per cent. | 1.0 | | 1.5 | 1.4 |
| 14.0 per cent | 1.1 | | 1.0 | 0.: |
| More than 14.0 per cent, but less than 14.5 per cent. | 0.2 | | 0.2 | 0. |
| 14.5 per cent | 0.6 | | 1.0 | 0.6 |
| More than 14.5 per cent, but less than 15.0 per cent. | 0.0 | | 0.1 | 0. |
| 15.0 per cent | 2.1 | | 0.8 | 0. |
| More than 15.0 per cent | | 5.5 | | 1. |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |

⁽a) Excludes term loans, farm development loans and personal instalment loans. Comprises categories of loans specifically exempted from the prescribed maximum overdraft requirement such as, short-term mortgage and bridging loans and post-shipment wool advances subject to a disincentive rate of interest.

MAJOR TRADING BANKS: FIXED DEPOSITS(a), BY RATE OF INTEREST (Source: Reserve Bank of Australia)

(Proportion at each rate to total—per cent)

| | | At abo | | | |
|--|------|--------------|------------------|--------------|------------------|
| Interest rate per annum | | June 1974 | December 1974 | June 1975 | December 1975 |
| Less than 5.5 per cent | | 10.8 | 2.7 | 0.5 | 0.1 |
| 5.5 per cent and less than 6.0 per cent | | 9.0 | 5.3 | 3.4 | 2.6 |
| 6.0 per cent and less than 6.5 per cent | | 4.9 | 2.1 | 1.4 | 1.2 |
| 6.5 per cent and less than 7.0 per cent | | 25.4 | 10.1 | 4.9 | 1.8 |
| 7.0 per cent and less than 7.5 per cent | | 7.6 | 2.4 | 1.3 | 9.8 |
| 7.5 per cent and less than 8.0 per cent | | 20.0 | 13.0 | 4.8 | 10.4 |
| 8.0 per cent and less than 8.5 per cent | | 22.4 | 2.3 | 9.8 | 18.3 |
| 8.5 per cent and less than 9.0 per cent | | | 0.9 | 19.0 | 18.5 |
| 9.0 per cent and less than 9.5 per cent | | | 15.2 | 21.8 | 16.1 |
| 9.5 per cent and less than 10.0 per cent | | | 28.1 | 30.7 | 19.8 |
| 10.0 per cent | | | 18.0 | 2.4 | 1.5 |
| Total | | 100.0 | 100.0 | 100.0 | 100.0 |

Savings banks

For information on the origin of savings banks in Australia, see Year Book No. 50, page 854, and earlier issues.

All savings banks, including trustee savings banks, but not State savings banks, are subject to the *Banking Act* 1959. Details of this Act and the special provisions applying to savings banks are given in Year Book No. 46, pages 759-60.

In the tables on pages 523-4 balance sheet and profit and loss account information does not relate to a uniform accounting period but rather to the financial years of the banks which ended in the years shown.

The number of operative accounts excludes school bank accounts and small inoperative accounts. The other sections of the tables relating to depositors' balances, etc., include school bank accounts, small inoperative accounts, investment accounts, deposit stock and non-interest bearing cheque accounts at the State Savings Bank of Victoria and the Savings Bank of South Australia, and fixed deposit accounts and non-interest bearing cheque accounts at the trustee savings banks in Tasmania.

At 30 June 1975 all savings banks were paying interest on deposits at rates of up to 6.25 per cent. For accounts other than friendly and other societies the maximum interest bearing amount in any one account was \$20,000. There is no limit on the maximum interest bearing amount for society cheque accounts. Interest rates charged on loans made by the savings banks were: housing loans—up to 10.00 per cent; other loans (under \$50,000)—11.50 per cent.

At 30 June 1975 savings banks operated 5,537 branches, 2,971 of these being in the 'metropolitan' areas. Savings bank facilities were also available at 14,224 agencies throughout Australia.

SAVINGS BANKS(a): LIABILITIES AND ASSETS(b) (\$ million) LIABILITIES

| | | Paid-up capital | Reserve funds (used in the business of the bank) | Balance of profit and loss account | Total share- holders' funds | Deposi- tors' balances | Balances due to other banks | Bills payaole and all other liabilities (c) | Total |
|--|---|------------------------------|--|---|---|---|--------------------------------------|--|---|
| 1970 . 1971 . 1972 . 1973 . 1974 . | : | 31.0 31.5 36.5 40.5 | 137.4 149.8 171.0 191.1 207.3 | 7.3 8.4 8.9 9.4 9.7 | 175.7 189.2 211.4 237.1 257.5 | 7,161.2 7,722.0 8,547.1 10,398.4 11,101.0 | 14.2 16.8 19.2 25.3 35.9 | 236.6 258.9 293.9 343.6 395.6 | 7,587.7 8,186.9 9,071.7 11,004.4 11,789.9 |

ASSETS

| | | Coin, bullion, | | Australian public s | | | |
|--|---|---|---|---------------------------------------|---|---|--------------------------------------|
| | | | Deposits in Australia | Australian Govern and States | ment | Local and semi- government authorities | Other securitles |
| | | notes and deposits with Reserve Bank | Australia with trading banks | Treasury bills and notes | Other securities | | |
| 1970 . 1971 . 1972 . 1973 . 1974 . | : | 585.1 659.8 906.1 1,356.8 1,059.0 | 150.8 123 1 188.6 233.5 281.3 | 74.7 58.6 39.3 104.1 47.8 | 2,232.6 2,287.5 2,352.5 2,744.4 2,850.4 | 1,791.9 1,963.0 2,171.4 2,511.2 2,791.6 | 16.5 28.7 36.9 40.2 24.8 |

| | | Loans to authorised dealers in short-term money market | Cheques and bills of, and balances with and due from other banks(d) | Loans(e), advances and bills discounted | Bank premises, furniture and sites | Bills receivable and re- mittances in transit | All other assets | Total |
|--------|---|---|---|--|---|---|---------------------|----------|
| 1970 . | • | 54.1 | 167.8 | 2,337.3 | 98.2 | 0.4 | 78.3 | 7,587.7 |
| 1971 . | | 78.6 | 195.0 | 2,602.9 | 102.6 | 0.3 | 86.9 | 8,186.9 |
| 1972 . | | 55.9 | 212.7 | 2,897.7 | 111.5 | 0.1 | 99.0 | 9.071.7 |
| 1973 . | | 103.6 | 228.4 | 3,433.1 | 119.7 | | 129.4 | 11.004.4 |
| 1974 . | | 69.7 | 245.4 | 4,138.1 | 135.5 | | 146.2 | 11,789.9 |

⁽a) Excludes Savings Bank Division of the Rural and Industries Bank of Western Australia. (b) This table relates to liabilities and assets both inside and outside Australia. (c) Includes provisions for contingencies. (d) Includes deposits with and loans to specified lenders other than trading banks. (e) Other than loans to dealers in the short-term modou market.

SAVINGS BANKS(a): PROFIT AND LOSS, APPROPRIATION OF PROFITS AND DIVIDENDS

(\$ million)

| | | Profit and loss | | | Profits appropriated to- | | | | |
|--|---|---|---|---|--------------------------------------|-------------------------------------|----------------------------------|---------------------------------|--------------------------------------|
| | • | Nes earnings (b) | Ex- penses (c) | Income, land and other taxes and pay- ments in lieu of taxes | Net profit | Reserve funds | Writing- off bank premises | Other appro- priations | Dividends paid and proposed |
| 1970 . 1971 . 1972 . 1973 . 1974 . | : | 149.6 179.4 213.9 268.5 321.5 | 121.4 141.2 165.4 209.3 268.4 | 9.6 11.4 14.2 17.9 19.5 | 18.6 26.7 34.4 41.4 33.7 | 9.9 13.4 19.9 23.3 17.7 | 1.9 1.9 2.8 2.9 2.1 | 3.0 6.3 7.5 8.4 6.9 | 3.2 4.1 5.7 6.2 6.7 |

⁽a) Excludes Savings Bank Division of the Rural and Industries Bank of Western Australia. (b) Discount and interest earned, net exchange, commissions and other items (including transfers from contingencies accounts), after deducting interest paid and accrued on deposits, rebate on bills current at balance date, amounts written off assets, and losses on realisation of assets and transfers to the credit of contingencies accounts (out of which accounts provisions for all bad and doubtful debts have been made). (c) Includes directors' tees,

SAVINGS BANKS: BUSINESS TRANSACTED IN AUSTRALIA

| | Number of operative accounts | Deposits (a) | With- drawals (a) | Interest added | Depositors' balances at end of year |
|-----------|------------------------------|-----------------|-------------------------|-------------------|---|
| | '000 | \$m | \$m | \$m | \$m |
| 1971-72 . | 16,726 | 14,304.3 | 13,823.0 | 275.6 | 8,391.4 |
| 1972-73 . | 17,468 | 18,092.3 | 16,561.6 | 315.8 | 10,237.9 |
| 1973-74 . | 18,369 | 23,202.4 | 22,648.7 | 404.0 | 11,195.6 |
| 1974-75 . | 19,390 | 30,455.9 | 29,374.9 | 513.9 | (b)12,868.5 |
| 1975-76 . | 21,807 | 36,361.6 | 35,021.0 | 613.4 | 14,822.5 |

⁽a) Includes inter-branch transfers. (b) Data from June 1975 have been revised to reflect a change in accounting procedures by one bank.

SCHOOLS SAVINGS BANKS: AUSTRALIA

| End of | June- | _ | | Number of school agencies | Number of operative accounts | Depositors' balances |
|--------|-------|---|--|---------------------------------|------------------------------|-------------------------|
| | | | | | '000 | \$'000 |
| 1971 | | | | 10,923 | 1,598 | 28,808 |
| 1972 | | | | 10,874 | 1,615 | 26,700 |
| 1973 | | | | 10,838 | 1,617 | 28,419 |
| 1974 | | | | 11,131 | 1,602 | 32,765 |
| 1975 | | | | 10,698 | 1,622 | 31,383 |
| | | | | | | |

SAVINGS BANKS: HOUSING FINANCE TRANSACTIONS WITHIN AUSTRALIA

| | | Housing loans | Housing loans approved to— | | | | | | | |
|---------|---|------------------------------|----------------------------|---------------|---------|---------------------------------|-------------|-----------------------|--|--|
| | | Individuals | | | | | | | | |
| | | Dwellings not previously occ | | Dwellings pre | | Alterations and additions To | | Building societies | | |
| | | Number(a) | \$m(b) | Number(a) | \$m(b) | \$ <i>m</i> | \$ <i>m</i> | \$ <i>m</i> | | |
| 1970-71 | • | 27.7 | 237.9 | 40.5 | 320.3 | 9.0 | 567.2 | 16.6 | | |
| 1971-72 | | 28.5 | 262.7 | 45.1 | 394.0 | 13.9 | 670.5 | 17.1 | | |
| 1972-73 | | 36.4 | 400.4 | 63.4 | 676.2 | 27.7 | 1,104.3 | 24.7 | | |
| 1973-74 | | 32.7 | 420.2 | 57.3 | 717.6 | 29.5 | 1,167.2 | 20.7 | | |
| 1974–75 | | 31.9 | 512.9 | 78.3 | 1,210.5 | 44.6 | 1,768.1 | 24.4 | | |

| | | Housing loans a | pproved to | individuals— | Balances outs on housing loa | Interest debited | | |
|---------|---|-------------------|------------|--|---------------------------------|-----------------------|---------------------------------------|--|
| | | Cancellation of l | | Undrawn commitments at end of year | Individuals | Building societies | to loan accounts of individuals | |
| | | Number(a) '000 | \$m(b) | \$ <i>m</i> | \$m(d) | \$ <i>m</i> | \$ <i>m</i> | |
| 1970-71 | | 4.1 | 32.2 | 129.0 | 2,124.9 | 238.6 | 130.1 | |
| 1971-72 | | 4.2 | 35.3 | 161.0 | 2,392.0 | 227.6 | 144.0 | |
| 1972-73 | | 5.6 | 57.3 | 348.9 | 2,825.3 | 215.9 | 174.1 | |
| 1973-74 | | 6.4 | 75.2 | 306.9 | 3,460.8 | 212.1 | 227.2 | |
| 1974–75 | • | 8.8 | 126.7 | 467.6 | 4,502.3 | 215.1 | 352.7 | |

(a) Number of dwelling units for which first mortgage loans approved. (b) Includes second mortgage finance to complete original purchase or construction. (c) Includes amounts cancelled as a result of periodic examinations by banks of undrawn commitments. (d) Includes interest debited to loan accounts.

BANKING: AUSTRALIA

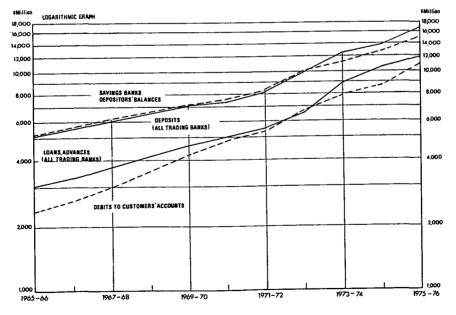


PLATE 40

Development banks

Commonwealth Development Bank of Australia

The Commonwealth Development Bank of Australia was established by the Commonwealth Banks Act 1959 and commenced operations on 14 January 1960. It was formed basically from an amalgamation of the Mortgage Bank and Industrial Finance Departments of the Commonwealth Bank. Under the Act the Bank is authorised to provide assistance for the development of worthwhile enterprises in the fields of primary and secondary industries, which would otherwise be unable to obtain the necessary finance on reasonable and suitable terms and conditions. The Commonwealth Development Bank is managed by a General Manager under the Managing Director of the Commonwealth Banking Corporation and its policy is determined by the Board of that Corporation. The capital of the Development Bank consists of the capital of the Mortgage Bank and Industrial Finance Departments of the Commonwealth Bank immediately prior to 14 January 1960, \$10 million provided by the Reserve Bank, \$20 million appropriated from the Consolidated Revenue Fund in 1961-62 by the Commonwealth Banks Act 1961 and the Commonwealth Banks Act 1962, \$10 million appropriated in 1963-64 by the Commonwealth Banks Act 1963, and such other sums as are provided from the Commonwealth Development Bank Reserve Fund. The net profits of the Bank are paid to the Commonwealth Development Bank Reserve Fund, which at 30 June 1975 stood at \$38.1 million. Net profits in 1973-74 and 1974-75 amounted to \$1.6 million and \$2.5 million respectively.

COMMONWEALTH DEVELOPMENT BANK OF AUSTRALIA: LIABILITIES (\$ million)

| 30 Jun | e— | | Capital | Reserve fund | Balances due to other banks | Deposits, bills payable, all other liabilities | Total |
|--------|----|--|---------|-----------------|--------------------------------------|--|-------|
| 1971 | | | 61.7 | 31.0 | 157.7 | 32.3 | 282.7 |
| 1972 | | | 61.7 | 32.5 | 159.8 | 42.0 | 296.0 |
| 1973 | | | 61.7 | 34.0 | 159.1 | 44.2 | 299.1 |
| 1974 | | | 61.7 | 35.6 | 158.4 | 62.2 | 317.9 |
| 1975 | | | 61.7 | 38.1 | 163.5 | 84.0 | 347.3 |

COMMONWEALTH DEVELOPMENT BANK OF AUSTRALIA: ASSETS (\$ million)

| | All other assets | Loans, advances, and bills discounted | Cheques and bills of other banks | Loans to authorised dealers in short-term money market | Other securities | Australian public securities (incl. Treasury bills) | Coin, bullion, notes and cash at bankers | 30 June— | | |
|-----|---------------------|--|---|---|---------------------|---|--|----------|--------|--|
| | 1.2 | 277.8 | 1.9 | •• | 0.2 | 0.7 | 0.8 | | 1971 . | |
| 2 | 1.0 | 290.4 | 2.3 | 0.8 | | 0.5 | 0.9 | | 1972 . | |
| 2 | 1.1 | 291.5 | 2.7 | 1.2 | | 2.0 | 0.6 | | 1973 . | |
| . 3 | 1.6 | 300.1 | 9.3 | 3.0 | | 2.0 | 1.9 | | 1974 . | |
| | 2.4 | 334.0 | 4.1 | 1.0 | | 3.0 | 2.8 | | 1975 . | |

Australian Resources Development Bank Limited

The Australian Resources Development Bank Limited was established in 1967 with equity capital of \$3 million subscribed by the major trading banks. It was given the status of a bank by the Banking Act 1967 and opened for business on 29 March 1968. The main object of the Australian Resources Development Bank is to assist Australian enterprises to participate more fully in the development of Australia's natural resources. It provides finance to enterprises engaged in major developmental projects by direct loans, investing in equity capital or by refinancing loans made by trading banks acting individually or as a group. The Australian Resources Development Bank obtains funds by accepting deposits and by borrowing on the Australian and overseas capital markets.

AUSTRALIAN RESOURCES DEVELOPMENT BANK LIMITED: LIABILITIES (\$ million)

| 30 Sep | otemb | er— | Capita | Capital | Reserve fund | Balances due to other banks | Deposits, bills payable, all other liabilities | Total |
|--------|-------|-----|--------|---------|-----------------|--------------------------------------|--|-------|
| 1972 | | | | 3.0 | 2.8 | 53.8 | 304.4 | 364.0 |
| 1973 | | | | 3.0 | 4.0 | 49.5 | 283.8 | 340.3 |
| 1974 | | | | 3.0 | 5.0 | 86.8 | 310.3 | 405.1 |
| 1975 | | | | 7.0 | 2.3 | 57.8 | 443.3 | 510.4 |

AUSTRALIAN RESOURCES DEVELOPMENT BANK LIMITED: ASSETS (\$ million)

| 30 Septemb | er— | Coin, bullion, notes and cash at bankers | Australian public securities (incl. Treasury bills) | Other securities | Loans to authorised dealers in short-term money market | Cheques and bills of other banks | Loans, advances, and bills discounted | All other assets | 340.3 |
|------------------|-----|--|--|---------------------|---|---|--|---------------------|----------------|
| 1972 . 1973 . | · · | ••• | 0.2 0.1 | . 0.3 | 10.0 | 326.5 305 2 | 15.5 12.1 | 11.5 10.3 | 364.0 |
| 1974 . 1975 . | : | 0.2 | 0.2 6.7 | 0.3 0.3 | 13.1 27.8 | 357.0 380.5 | 31.8 90.6 | 2.6 4.6 | 405.1 510.4 |

INSURANCE

Legislation

Section 51 of the Commonwealth Constitution confers the necessary powers on the Australian Parliament to legislate with respect to 'insurance other than State insurance; also State insurance extending beyond the limits of the State concerned'. Commonwealth legislation includes the Marine Insurance Act 1909 defining the limits of marine insurance and regulating the terms of contracts, etc., the Insurance (Deposits) Act 1932 requiring the lodgment of deposits by insurance companies, and the Life Insurance Act 1945 generally regulating life insurance business in Australia. The Marine Insurance Act 1909 and the Insurance (Deposits) Act 1932 have limited application, and except for life insurance business, which is regulated by the Life Insurance Act 1945, insurance business is conducted almost entirely under State laws.

Insurance (Deposits) Act 1932

Companies, persons or associations of persons carrying on insurance business in Australia or in any Territory of Australia are required to lodge a deposit with the Commonwealth Government Treasurer. Money deposited is invested by the Treasurer in prescribed securities selected by the depositor and all interest is paid to depositors. Deposits remain as security against liability to policy holders and are available to satisfy judgments obtained in respect of policies. Deposits held by States on 1 February 1932 could, however, remain with the States subject to the conditions embodied in the laws of the States, and depositors to the extent of the value of these deposits were exempt from liability to make deposits under the Commonwealth Act.

The following are not regarded as insurance business under the Act: staff superannuation schemes; schemes of religious organisations solely for insurance of their property; friendly society, union and association schemes involving superannuation or insurance benefits to employees.

This Act does not apply to State insurance within the limits of the State concerned, and under the Life Insurance Act 1945 ceased to apply to life insurance business.

Life Insurance Act 1945

The objects of this Act are: (a) to replace all State legislation on the subject of life insurance, except that relating to the life insurance operations of State Government insurance offices within the State concerned, and to provide uniform legislation for the whole of Australia; (b) to appoint an Insurance Commissioner to exercise active supervision of the activities of life insurance companies, with a view to securing the greatest possible protection for policy holders; (c) to set up adequate

machinery for dealing with any company that fails to maintain a required minimum standard of solvency. The Act came into operation on 20 June 1946. A summary of the provisions of the Act is given in Year Book No. 37, pages 595-7. The Insurance Commissioner issues an annual report which contains detailed information on the operations of life insurance companies.

Life insurance

Since 1947, returns lodged under the *Life Insurance Act* 1945 have been used to compile life insurance statistics. The statistics included in the following tables relate to the Australian and overseas business of companies with head offices in Australia together with the Australian business of companies with head offices overseas. The information shown has been compiled from returns of life insurance business submitted in the financial years which ended during the year stated.

Summary information on foreign ownership and control of life insurance business is shown in Chapter 11. More detailed statistics are available in Foreign Ownership and Control of Life Insurance Business (Advance Release), 1973 (5.49) and Foreign Ownership and Control of Life Insurance Business 1973 (5.53).

Offices transacting business

The number of companies which transacted life insurance business in Australia during 1974 was 51. Of these, 37 were companies incorporated outside Australia or were subsidiaries of such companies. Nine companies, including 4 incorporated outside Australia, were mutual companies. All companies conducted ordinary business and 46 conducted superannuation business. Industrial business was conducted by 10 companies, all of which also conducted superannuation business. In addition two State Government institutions conduct life insurance business only in their own State.

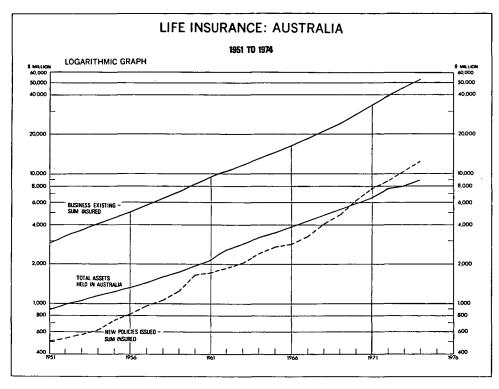


PLATE 41

LIFE INSURANCE

LIFE INSURANCE: SUMMARY, AUSTRALIA

| | | | Insurance and e | ndowment polic | ies | Annuity policies | 5 |
|--------------------------|-------------|----------|----------------------------|--------------------------------|------------------------------------|---|---|
| | | | Number of policies | Sum insured (\$ million) | Annual premiums (\$ million) | Number of policies | Annuities per annum (\$ million) |
| | | | ORDI | NARY BUS | INESS | | |
| New polici | es is: | sued | | | | | _ |
| 1970 1971 | : | | . 504,613 . 569,370 | 3,777.9 4,882.6 | 75.3 91.5 | 55 66 | 0 1 0.1 |
| 1972 | | | . 575,650 | 5,545.2 | 100.4 | 74 | 0.1 |
| 1973 1974 | : | : | . 552,422 . 508,904 | 6,504.8 6,899.9 | 96.6 94.4 | 78 26 | 0.1 0.1 |
| Policies dis reduced(| | inued o | r | | | | |
| 1970 | <u>.</u> . | | . 273,765 | 1,153.2 | 24.5 | 204 | 0.1 |
| 1971 1972 | • | • | . 293,710 . 324,374 | 1,398.9 1,777.0 | 28.3 34.0 | 109 91 | 0.1 |
| 1973 | : | : | . 197,401 | 2,016.9 | 34.0 | 157 | 0.1 |
| 1974 Policies exi | :: | . as and | . 424,767 | 2,613.7 | 50.0 | 173 | 0.1 |
| Policies exi | ISUNE | at enu | 4 007 012 | 10.420.0 | 462.6 | 1.051 | |
| 1970 1971 | : | : | . 4,907,012 . 5,182,672 | 19,430.8 22,914.5 | 462.6 525.7 | 1,951 1,906 | 1.1 1.1 |
| 1972 | | | . 5,433,950 | 26,682.7 | 592.2 | 1,889 | 1.2 |
| 1973 1974 | : | : | 5,788,971 5,873,108 | 31,170.6 35,456.8 | 654.7 699.2 | 1,811 1,664 | 1.2 |
| | | | INDU | STRIAL BU | SINESS | | |
| | | | | | | | |
| New polici 1970 | es 155 | suea | . 138,647 | 198 5 | 7.3 | •• | |
| 1971 | | | . 135,384 | 231.4 | 8.0 | •• | |
| 1972 1973 | : | • | . 133,700 . 123,239 | 255 3 263.0 | 8.7 8.9 | | • • |
| 1974 | · | | . 85,675 | 216.4 | 7.1 | •• | • |
| Policies dis reduced(| cont a)— | inued o | Г | | | | |
| 1970 | • | | . 168,600 | 100.6 115.0 | 4.1 | | |
| 1971 1972 | : | • | . 165,067 . 215,164 | 142.4 | 4. 5 5.3 | • | |
| 1973 1974 | | | . 193,159 . 230,794 | 153.7 187.1 | 5.2 7.2 | | • |
| Policies exi | sting | at end | . 230,754 | 107.1 | | | • • |
| of <u>—</u> 1970 | | | . 2,500,433 | 1,212.3 | 48.3 | | |
| 1971 | : | : | . 2,470,750 | 1,328.7 | 51.8 | ••• | :: |
| 1972 1973 | ٠ | • | . 2,389,286 . 2,319,366 | 1,441.5 1,550.9 | 55.2 58.9 | • • | |
| 1974 | : | : | 2,174,247 | 1,580.1 | 58.9 | •• | • |
| | | | SUPERAN | INUATION | BUSINESS | | |
| | | | | | | | |
| New polici 1970 | es iss | uea— | . 74,334 | 2,298.6 | 58.8 | 60 | 10.6 |
| 1971 | | • | . 78,005 . 86,394 | 2,785.3 | 72.4 78.8 | 45 59 | 12.9 14.6 |
| 1972 1973 | : | : | . 72,424 | 3,015.2 3,768.6 | 94.1 | 42 | 14.3 |
| 1974 | • | • | . 89,778 | 5,534.7 | 139.2 | 38 | 17.4 |
| Policies dis reduced(| conti | inued or | ŗ | | | | |
| 1970 | | | . 126,552 | 940.0 | 26.5 | 33 | 4 5 |
| 1971 1972 | • | • | . 87,206 . 67,696 | 1,077.6 1,324.0 | 29.4 32.9 | 28 43 | 4.7 7.1 |
| 1973 | : | | . 113,043 | 1,759.4 | 42.4 | 3 | 9.1 |
| 1974 Policies exi | stina | at end | . 94,932 | 1,948.8 | 48.8 | 60 | 14.0 |
| of— 1970 | | | . 699,652 | 7 707 9 | 211 4 | 977 | 31.4 |
| 1970 | : | : | . 690,451 | 7,797.8 9,505.6 | 211.5 254.5 | 980 | 39.6 |
| | | Ţ, | . 709,151 | 11,196.7 | 300.5 | 996 | 47.0 |
| 1972 1973 | : | | . 668,540 | 13,205.9 | 352.1 | 1,035 | 52.3 |

⁽a) Includes policies matured, surrendered, forfeited, transferred to overseas registers, converted to other classes of business, etc.

LIFE INSURANCE: POLICIES DISCONTINUED OR REDUCED IN AUSTRALIA BY CAUSE OF DISCONTINUANCE OR REDUCTION(a)(b)

| | | | | Events j | provided fo | r in policy | | | | | |
|------------------|--------|-----------------|---------------|------------------|--------------------------|--------------------------|--------------------|--------------------|----------------|-------------------|-----------|
| | | | | Death | Maturity | Other (including expiry) | Sur- render | For- feiture | Transfer | Other causes | Tota |
| | | | | | ORI | DINARY | BUSINESS | 1 | | - | |
| Number | of no | licies— | | | | | - | | | - | |
| 1970 | o. po | | | 23,047 | 73,132 | 4,241 | 121,917 | 65,380 | _1 786 | -12,166 | 273,765 |
| 1971 | • | • | • | 23,138 | 75,516 | 4,654 | 128,879 | 68,741 | -1,780 | -5,776 | 293,710 |
| 1972 | : | • | | 23,630 | 79,430 | 4,947 | 145,473 | 73,395 | -1,826 | -677 | 324,372 |
| 1973 | • | • | • | 23,826 | 59,754 | 7,532 | 110,141 | 70,929 | -3,061 | | 197,40 |
| 1974 | : | · | : | 25,020 | 88,654 | 27,062 | 209,689 | 85,023 | -3,551 | -7,110 | 424,76 |
| | | | | 23,000 | 00,054 | 21,002 | 200,000 | 05,025 | - 3,331 | 7,110 | 424,70 |
| Sum insu 1970 | red (| (000) | - | 54 225 | 62 201 | 150 407 | 506 645 | 204 972 | 0 216 | -15,845 | 1 153 160 |
| 1970 | • | • | • | 54,235 56,558 | 63 ,201 63,027 | 158,407 203,058 | 506,645 689,277 | 394,872 428,750 | | -13,843 $-27,666$ | |
| 1971 | • | : | • | 61,660 | 72,536 | | 892,028 | 540,624 | | -27,000 $-15,377$ | |
| 1973 | • | : | ٠ | 74,182 | 53,605 | | 1,048,190 | 623,713 | | -68,897 | |
| 1974 | • | • | • | 81,646 | 101,798 | | 1,332,588 | 769,181 | | -14,076 | |
| | | • | <u>.</u> | | | | | 702,101 | | | 2,010,11 |
| | | | | | IND | USTRIAL | BUSINES | S | | | |
| | | | | | | | | | | | |
| Number | or po | icies- | | | 60.060 | | | 04.610 | 40 | 104 | 160.60 |
| 1970 | • | • | • | 12,554 | 69,069 | -1 | 52,432 | 34,610 | 40 | -104 | 168,600 |
| 1971 | • | • | • | 13,745 | 65,575 | •• | 50,901 | 34,879 | -26 | -7 | |
| 1972 | • | • | • | 12,267 | 112,636 | | 51,941 | 38,281 | 51 | 12 | 215,16 |
| 1973 | • | • | • | 11,941 | 126,992 | | 46,770 | 35,448 | 135 | -28,127 | 193,159 |
| 1974 | • | • | • | 12,501 | 120,791 | • • | 55,561 | 41,901 | 79 | -39 | 230,79 |
| Sum insu | red (| §'000) <u>–</u> | _ | • | | | | | | | |
| 1970 | | • | • | 3,152 | 11,236 | | 34,841 | 51,316 | 54 | 18 | |
| 1971 | | | | 3,673 | 12,194 | 60 | 37,199 | 61,751 | 141 | 21 | 115,042 |
| 1972 | • | • | • | 3,360 | 19,611 | 113 | 42,777 | 76,231 | 302 | :: | 142,39 |
| 1973 | • | • | • | 3,793 | 23,344 | | 44,157 | 82,114 | 177 | -41 | 153,69 |
| 1974 | • | • | • | 4,173 | 23,012 | 206 | 66,488 | 93,660 | 182 | 590 | 187,13 |
| | | | | | SUPERA | NNUATI | ON BUSIN | NESS | | | |
| Number | of so | licies - | - | | | | | | | | |
| 1970 | or bo | 110162- | - | 3,661 | 9,193 | 181 | 53,065 | 1,655 | 5 | 58,792 | 126,55 |
| 1971 | • | : | : | 3,712 | 8,938 | 632 | 44,651 | 1,535 | _9 | 27,749 | 87,20 |
| 1972 | • | | • | 3.854 | 8,992 | 188 | 33,144 | 1,596 | 5 | 19,915 | 67,69 |
| 1973 | • | • | • | 3,166 | 9,442 | 587 | 58,705 | 1,802 | -1,378 | 40,719 | 113,04 |
| 1974 | : | : | | 3,182 | 9,276 | | 40,836 | 2,709 | -1,376 -114 | 38,372 | 94,93 |
| Sum insu | red (§ | °000)– | _ | | | | 3. | | | | |
| 1970 | | | | 23,053 | 23,573 | 72,008 | 605,648 | 21,848 | -1,063 | 194,976 | |
| 1971 | | | | 24,467 | 28,825 | | 679,481 | 23,869 | -266 | 177,774 | 1,077,56 |
| 1972 | | | | 29,182 | 36,821 | 152,457 | 813,044 | 22,424 | 248 | | 1,324,02 |
| 1973 | | | | 34,226 | 42,261 | 333,072 | 1,115,828 | 27,426 | 661 | | 1,759,37 |
| 1974 | | | | 38,735 | 57,470 | 278 476 | 1,362,110 | 56,989 | -2,942 | 157 932 | 1,948,77 |

⁽a) Excludes annuities. (b) See footnote (a) on page 529.

Minus sign (-) denotes an increase in existing business due to an excess of transfers from overseas registers to Australian registers, or conversions from other classes of business over discontinuances.

LIFE INSURANCE: REVENUE FROM PREMIUMS, AUSTRALIA (\$'000)

| | | Ordinary busi | ness | Industrial business | Superannuation | on business | |
|--------|--|---|--|--|----------------|-------------|-----------|
| | | Insurance and endowment premiums | Con- sideration for annuities | Insurance Insurance Consideration Total, all | | | |
| 1970 . | | 472,120 | 675 | 45,987 | 222,995 | 11,967 | 753,745 |
| 1971 . | | 545,217 | 620 | 49,200 | 259,208 | 13,259 | , |
| 1972 . | | 613,910 | 1,005 | 52,518 | 307,797 | 26,359 | , |
| 1973 . | | 675,765 | 931 | 56,483 | 354,223 | 18,892 | 1,106,293 |
| 1974 . | | 712,387 | 236 | 58,776 | 436,023 | 20,165 | 1,227,588 |

LIFE INSURANCE: PAYMENTS TO POLICY-HOLDERS, AUSTRALIA (\$'000)

| | | | | Claims | Surrenders | Annuities | Cash bonuses | Total |
|--------------|---|-------------|---|--------------------|-------------------|----------------|---|--------------------|
| | | | | ORD | INARY BU | SINESS | | |
| 1970 | | • | | 159,357 | 67,028 | 994 | 1,487 | 228,867 |
| 1971 | • | • | • | 180,923 | 81,511 | 995 | 1,607 | 265,035 |
| 1972 1973 | • | • | • | 197,653 222,646 | 97,720 110,169 | 1,110 1,141 | 1,720 2,136 | 298,204 336,092 |
| 1974 | • | • | : | 248,421 | 176,669 | 1,244 | 2,941 | 429,275 |
| | | | | INDU | STRIAL BU | ISINESS | | |
| 1970 | | • | | 17,499 | 6,953 | | | 24,453 |
| 1971 | | • | • | 19,102 | 7,561 | • • | • • | 26,662 |
| 1972 | • | • | • | 30,901 | 8,304 | •• | • • | 39,205 |
| 1973 1974 | : | | : | 35,537 36,610 | 8,301 11,469 | •• | • | 43,839 48,079 |
| | | | | SUPERA | NNUATION | BUSINESS | | |
| 1970 | _ | | | 57,665 | 55,199 | 3,077 | 998 | 116,941 |
| 1971 | | | | 66,589 | 62,848 | 4,012 | 1,109 | 134,557 |
| 1972 | | | • | 80,336 | 68,656 | 5,196 | 1,589 | 155,775 |
| 1973 | • | • | | 93,408 | 83,655 | 2,127 | 1,680 | 180,870 |
| 1974 | • | • | • | 122,403 | 109,242 | 2,302 | 1,906 | 235,853 |

PRIVATE FINANCE

LIFE INSURANCE: TOTAL REVENUE (\$'000)

| | | | | Australia and | d overseas | | | | |
|--------|---|---|---|-------------------------------|--|------------------------------|---------------------------------------|--------------|----------|
| | | | | Insurance and endowment | Con- sideration for annuities | Net interest dividends | All other | Total revenu | e |
| | | | | premiums | granted | and rents | revenue | Australia | Overseas |
| | | | | | ORDINARY | BUSINESS | | | |
| 1970 . | | | • | 610,678 | 10,299 | 279,643 | 50,724 | 719,140 | 232,204 |
| 1971 . | | | | 695,185 | 11,860 | 315,409 | 58,467 | 828,437 | 252,485 |
| 1972 . | | | | 771,364 | 12,596 | 347,559 | 88,294 | 940,024 | 279,789 |
| 1973 . | | | | 844,561 | 11,471 | 355,295 | 74,916 | 999,401 | 286,842 |
| 1974 . | | | | 917,604 | 5,261 | 395,928 | 103,901 | 1,094,367 | 328,327 |
| | | | | | INDUSTRIAI | L BUSINESS | · · · · · · · · · · · · · · · · · · · | ····· | |
| 1970 . | • | • | • | 50,377 | | 26,701 | 1,335 | 71,325 | 7,087 |
| 1971 . | | | | 53,770 | | 27,904 | 2,739 | 77,024 | 7,390 |
| 1972 . | | | | 57,142 | | 29,955 | 3,921 | 83,428 | 7,589 |
| 1973 . | | | | 61,298 | | 28,566 | 3,940 | 85,848 | 7,956 |
| 1974 . | ٠ | ٠ | | 63,615 | | 29,488 | 4,179 | 89,204 | 8,078 |
| | | | | SUF | ERANNUAT | ION BUSIN | ESS | | |
| 1970 . | | | | 233,518 | 13.825 | 83,331 | 28,026 | 339,175 | 19,525 |
| 1971 . | | | | 271,748 | 16,389 | 94,313 | 38,179 | 399,178 | 21,449 |
| 1972 . | | | | 322,831 | 30,945 | 109,191 | 95,283 | 531,934 | 26,315 |
| 1973 . | | | | 369,764 | 25,674 | 128,452 | 67,053 | 560,829 | 30,112 |
| 1974 . | | | | 453,104 | 28,455 | 153,652 | 64,088 | 665,167 | 34,132 |

LIFE INSURANCE: TOTAL EXPENDITURE (\$'000)

| | | Australia | and overseas | • | | | | | |
|------|---|----------------------------|--------------|---------------------------------------|----------|-------------------|--------------------------|--------------------|----------|
| | | Claims and annuities | Surren- | Cash bonuses paid to policy- | Com- | Other expenses of | All other expendi- | Total expenditu | re |
| | | paid | ders | holders | mission | manage- ment | expendi- ture | Australia | Overseas |
| | | | | ORDINA | RY BUSIN | IESS | | | |
| 1970 | • | 228,462 | 88,708 | 2,464 | 68,885 | 81,526 | 19,671 | 360,745 | 128,971 |
| 1971 | | 252,679 | 105,049 | 2,616 | 84,356 | 97,670 | 26,016 | 428,482 | 139,902 |
| 1972 | | 268,354 | 123,128 | 2,647 | 94,221 | 111,051 | 36,767 | 484,573 | 151,596 |
| 1973 | | 296,831 | 137,539 | 3,263 | 102,101 | 128,158 | 51,154 | 565,414 | 153,632 |
| 1974 | | 331,487 | 210,255 | 6,421 | 111,142 | 160,196 | 165,645 | 787,605 | 197,540 |
| | | | | INDUSTRI | AL BUSI | NESS | | • | |
| 1970 | • | 20,104 | 7,620 | | 7,557 | 9,268 | 1,474 | 41,099 | 4,926 |
| 1971 | | 21,635 | 8,224 | | 8,620 | 10,967 | 2,038 | 46,262 | 5,222 |
| 1972 | | 35,136 | 9,037 | | . 9,295 | 11,799 | 2,614 | 60,083 | 7,800 |
| 1973 | | 40,355 | 8,965 | | 9,561 | 12,833 | 3,469 | 67,530 | 7,652 |
| 1974 | | 40,910 | 12,419 | | 8,474 | 14,279 | 18,738 | 87,394 | 7,426 |
| | | | SUF | PERANNU. | ATION B | USINESS | | | |
| 1970 | • | 64,936 | 58,608 | 1,069 | 8,019 | 18,710 | 53,733 | 192,669 | 12,406 |
| 1971 | | 75,329 | 66,839 | 1,187 | 9,329 | 21,875 | 60,158 | 222,771 | 11,947 |
| 1972 | | 90,539 | 72,850 | 1.651 | 10,250 | 24,438 | 64,997 | 252,413 | 12,310 |
| 1973 | | 101,782 | 89,643 | 1,709 | 11,904 | 28,840 | 155,579 | 374,066 | 15,391 |
| 1974 | | 132,349 | 115,034 | 2,321 | 16,769 | 40,725 | 172,900 | 461,577 | 18,520 |

LIFE INSURANCE

LIFE INSURANCE: LIABILITIES, AUSTRALIA AND OVERSEAS, 1974 (\$ million)

| | | | | | | | Life insurance business | Other classes of business | Total liabilities |
|---|--------|-------|--------|--------|-------|-----|-------------------------------|---------------------------|----------------------|
| Shareholders' capital— | | | | | | | | | _ |
| Authorised | | | | | | • | | 95.8 | 95.8 |
| Less un-issued | • | ٠ | • | • | • | • | | 58.3 | 58.3 |
| Subscribed capital . | | • | | | | | | 37.5 | 37.5 |
| Paid-up— | | | | | | | | | |
| In money | • | • | • | | | • | | 27.2 | 27.2 |
| Otherwise than in money | • | • | • | ٠ | • | • | • • | 9.5 | 9.5 |
| Total paid-up capital | | | | • | • | | | 36.7 | 36.7 |
| Life insurance statutory funds— | - | | | | | | | | |
| Ordinary business . | | | | | | | 7,052.9 | | 7,052.9 |
| Industrial business . | | | | | • | | 547.9 | | 547.9 |
| Superannuation business | • | • | • | • | ٠ | • | 2,292.7 | | 2,292.7 |
| Total statutory funds | | | | • | | | 9,893.4 | | 9,893.4 |
| Funds in respect of other classes | s of | busin | ess | | | | | 51.5 | 51.5 |
| General reserves | | | | | | | 131.7 | 46.0 | 177.7 |
| Profit and loss account balance | • | • | • | • | • | • | • • | 12.8 | 12.8 |
| Total shareholders' capital | l, ins | uranc | e fund | ls and | reser | ves | 10,025 . 1 | 147.1 | 10,172.2 |
| Other liabilities— | | | | | | | | | |
| Deposits | • | •_ | . • | • | • | • | 56.6 | 11.3 | 67.9 |
| Staff provident and superannu | | | | • | • | • | 0.9 | 3.1 | 4.0 |
| Claims admitted or intimated | | | | • | • | • | 110.3 | 63.2 | 173.5 |
| Premiums paid in advance an | | • | | • | • | • | 7.9 59.8 | | 7.9 |
| | • | • | • | • | • | • | 59.8 46.3 | 5.6 1.8 | 65.4 48.1 |
| Bank overdraft Reserves and provisions for ta | | • | • | • | • | • | 139.4 | 3.7 | 143.1 |
| All other liabilities . | axati | on | • | • | • | • | 55.7 | 30.4 | 86.1 |
| An other habilities . | • | • | • | ٠ | • | • | | 30.4 | 80.1 |
| Grand total | | | | | | | 10,502.0 | 266.3 | 10,768.3 |

LIFE INSURANCE(a): ASSETS HELD IN AUSTRALIA (\$ million)

| 1974 | 1973 | 1972 | 1971 | 1970 | | | | | | _ | |
|---------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---|---|------|------|-----------|--------|---|
| 1,663.2 | 1,384.7 | 1,164.7 | 948.3 | 761.6 | | | | rty | d prope | seholo | Freehold and leas |
| 2,666.6 | 2,478.5 | 2,329.5 | 2,052.5 | 1,819.3 | | | ties | curi | icipal se | muni | Government and |
| 2,285.1 | 2,199.4 | 1,961.7 | 1,727.8 | 1,578.4 | | | | | | s. | Other investments |
| 1,338.8 | 1,258.4 | 1.271.5 | 1.252.9 | 1.235.4 | | | | | | ge | Loans on mortga |
| 283.2 | 266.5 | 267.8 | , | | | | · | | policies | _ | |
| 90.5 | 74.6 | 62.3 | | | | | · | | | | |
| 450.2 | 354.4 | 311.4 | 270.3 | 236.3 | | ÷ | : | : | ÷ | · | All other assets |
| 8,778.0 | 8,016.7 | 7,369.0 | 6,563.8 | 5,911.1 | | | | | | | Total . |
| | 1,258.4 266.5 74.6 354.4 | 1,271.5 267.8 62.3 311.4 | 1,252.9 251.8 60.3 270.3 | 1,235.4 223.0 57.1 236.3 | : | : | | • | • | ge | Loans on mortga Loans on compar Other loans . All other assets |

⁽a) Includes other classes of business.

PRIVATE FINANCE

LIFE INSURANCE: ASSETS, AUSTRALIA AND OVERSEAS, 1974 (\$'000)

| | Australia | | | Australia ar | d overseas | |
|-------------------------------|-------------------------------|---------------------------|---------|-------------------------------|---------------------------|-----------|
| | Life insurance business | Other classes of business | Total | Life insurance business | Other classes of business | Total |
| Fixed assets— | | | | | | |
| Freehold and leasehold | | | | | | |
| property, office premises . | 1,655.8 | 7.3 | 1,663.2 | 1,968.7 | 7.3 | 1,976.0 |
| Furniture, etc | 15.4 | 1.8 | 17.1 | 18.5 | 1.8 | 20.2 |
| Total fixed assets . | 1,671.2 | 9.1 | 1,680.3 | 1,987.1 | 9.1 | 1,996.2 |
| Loans— | | | | | | |
| On mortgage | 1,316.1 | 22.6 | 1,338.8 | 1,776.8 | 22.6 | 1,799.5 |
| On policies of the company | 283.2 | | 283.2 | 363.3 | | 363.3 |
| Other loans | 79.5 | 10.9 | 90.5 | 98.2 | 10.9 | 109.2 |
| Total loans | 1,678.8 | 33.7 | 1,712.5 | 2,238.4 | 33.7 | 2,272 . I |
| Investments— | | | | | | |
| Government securities— | | | | | | |
| Australia | 1,876.9 | 11.8 | 1,888.7 | 1,883.3 | 11.8 | 1,895.1 |
| Other | 14.6 | | 14.6 | 454.3 | 0.7 | 455.0 |
| Securities of local and semi- | | | | | | |
| government bodies | 756.7 | 6.6 | 763.3 | 897.8 | 6.7 | 904.4 |
| Other investments | 2,158.1 | 127.2 | 2,285.1 | 2,612.4 | 128.0 | 2,740.4 |
| Total investments . | 4,806.2 | 145.5 | 4,951.8 | 5,847.8 | 147.2 | 5,995.0 |
| Cash on deposit, current | | | | | | |
| account and in hand | 74.8 | 20.1 | 94.9 | 87.1 | 22,6 | 109.7 |
| Other assets(a) | 285.4 | 52.7 | 338.2 | 341.6 | 53.4 | 394.9 |
| Grand total | 8,516.6 | 261.5 | 8,778.0 | 10,502.0 | 266.3 | 10,768.3 |

⁽a) Includes advances of premiums.

LIFE INSURANCE COMPANIES: NEW LOANS PAID OVER(a), BY CLASS OF SECURITY AND STATE OR TERRITORY
(\$'000)

| | | | 1971 | 1972 | 1973 | 1974 | 1975 |
|-------------------------|------|----|----------|---------|---------|---------|---------|
| Class of security— | | | | | · | | |
| Mortgage of real estate | : | | 157,459 | 132,958 | 176,645 | 198,986 | 120,308 |
| Companies' policies | | | 65.571 | 58,448 | 50,839 | 75,114 | 56,669 |
| Other | | | 10,380 | 19,497 | 33,983 | 42,854 | 25,963 |
| State or Territory(b)— | | | , | , | , | | |
| New South Wales | | | 104.057 | 90,048 | 109,253 | 161,653 | 77,179 |
| Victoria | | | 61,711 | 59,671 | 83,239 | 99,513 | 63,958 |
| Oueensland . | | | 21,633 | 24,065 | 23,868 | 26,002 | 18,243 |
| South Australia(c) | | | 18,307 | 13,526 | 18,973 | 21,717 | 17,607 |
| Western Australia | | | 19,588 | 13,189 | 13,193 | 22,389 | 14,716 |
| Tasmania | | | 4,688 | 4,425 | 4,560 | 6,307 | 5.027 |
| Australian Capital Ter | rito | ry | 3,425 | 5,977 | 8,382 | 9,374 | 6,220 |
| Total | | | 233,410 | 210,904 | 261,468 | 316,956 | 202,945 |

⁽a) Excludes advances of premiums. (b) State or Territory of location of mortgage, registration of policy or residence of borrower. (c) Includes Northern Territory.

General Insurance

The following statistics, which are in respect of the Australian business of companies operating in Australia and State Government insurance offices, conform to the following definitions and should be interpreted accordingly.

- (a) Accounting Period—The data does not relate to uniform accounting periods but to the financial years of the organisations which ended during the years shown.
- (b) Premiums represent the full amount receivable in respect of policies issued or renewed during the year, less stamp duty, less returns, rebates and bonuses paid or credited to policy holders during the year. They are not adjusted to provide for premiums unearned at the end of the year, and consequently the amounts differ from 'earned premium income' appropriate to the year.
- (c) Claims comprise payments made during the year, plus the estimated amount of outstanding claims at the end of the year, less the estimated amount of outstanding claims at the beginning of the year. Salvage and other amounts recoverable have been deducted.
- (d) Contributions to fire brigades, commission, agents' charges and expenses of management are mainly charges paid during the year.
- (e) Expenses of management—expenses of the Australian Control Office of each organisation are allocated as management expenses proportionally between the States on the basis of premiums receivable in each State.
- (f) Taxation is mainly payments made during the year and includes pay-roll tax, licence fees, etc. Stamp duty and income tax are excluded.

During 1974-75 revenue from premiums amounted to \$2,023.4 million, and that from net interest on investments, etc., to \$124.7 million. Expenditure on claims amounted to \$1,766.0 million, contributions to fire brigades \$53.0 million, commission and agents' charges \$131.9 million, expenses of management \$301.6 million, and taxation \$25.6 million. Income tax paid amounted to \$8.9 million.

GENERAL INSURANCE: PREMIUMS AND CLAIMS BY PRINCIPAL CLASS OF RISK, AUSTRALIA (S'000)

| Class of risk | | 1970-71 | 1971–72 | 197 2-73 | 1973–74 | 1974-75 |
|--|----------------------|--|--|--|---|--|
| PREMIUM | S (LESS | RETURN | S, REBAT | ES AND I | BONUSES) | |
| Fire (a) | | 149,737 | 170,904 | 181,633 | 208,829 | 241,493 |
| House Owners' and | House- | - | | , | , | |
| holders' | | 73,469 | 86,381 | 104,164 | 127,316 | 163,756 |
| Contractors' All Risks | | 8,248 | 10,036 | 10,043 | 11,448 | 12,132 |
| Marine and Aviation | | 58,625 | 67,331 | 64,509 | 69,087 | 80,733 |
| Motor Vehicle Compre | hensive | 252,225 | 300,343 | 329,932 | 366,126 | 473,449 |
| Compulsory Third | Party | • | , | , | | |
| (Motor Vehicle) | | 158,486 | 172,505 | 183,877 | 206,423 | 306,781 |
| Employers Liability (b) | | 181,792 | 236,546 | 291,248 | 380,201 | 580,666 |
| Public Liability (c) | | 27,934 | 33,254 | 36,544 | 41,505 | 45,337 |
| All other | | 92,564 | 108,528 | 123,479 | 139,819 | 155,212 |
| | | | • | • | , | |
| Total | | 1,003,078 | 1,185,826 | 1,325,427 | 1,550,754 | 2,059,558 |
| | | 1,003,078 ESS AMOU | | | <u> </u> | 2,059,558 |
| | | • • | | | LE) | |
| CLA | IMS (LI | ESS AMOU | JNTS REC | OVERABI | LE) | |
| CLA | IMS (LI | ESS AMOU | JNTS REC | OVERABI | LE) | |
| CLA Fire (a) . Houseowners' and | IMS (LI | 67,420 | 77,503 | 83,728 | LE) 113,643 | (d)196,834 |
| CLA Fire (a) . Houseowners' and holders' . | IMS (LI | 67,420 24,580 | 77,503 34,951 | 83,728 41,069 | 113,643 52,647 | (d)196,834 175,293 |
| CLA Fire (a) Houseowners' and holders' Contractors' All Risks | House- | 67,420 24,580 4,142 | 77,503 34,951 5,197 | 83,728 41,069 5,436 | 113,643 52,647 6,944 | (<i>d</i>)196,834 175,293 16,661 |
| CLA Fire (a) Houseowners' and holders' Contractors' All Risks Marine and Aviation | House- | 67,420 24,580 4,142 29,597 | 77,503 34,951 5,197 28,374 | 83,728 41,069 5,436 28,477 | 113,643 52,647 6,944 44,963 | (d)196,834 175,293 16,661 61,282 |
| CLA Fire (a) Houseowners' and holders' Contractors' All Risks Marine and Aviation Motor Vehicle Compre | House- | 67,420 24,580 4,142 29,597 | 77,503 34,951 5,197 28,374 | 83,728 41,069 5,436 28,477 | 113,643 52,647 6,944 44,963 | (d)196,834 175,293 16,661 61,282 |
| CLA Fire (a) Houseowners' and holders' Contractors' All Risks Marine and Aviation Motor Vehicle Compre Compulsory Third (Motor Vehicle) | House- hensive Party | 67,420 24,580 4,142 29,597 186,673 | 77,503 34,951 5,197 28,374 217,933 | 83,728 41,069 5,436 28,477 223,364 | 113,643 52,647 6,944 44,963 268,856 | (d)196,834 175,293 16,661 61,282 349,631 |
| CLA Fire (a) Houseowners' and holders' Contractors' All Risks Marine and Aviation Motor Vehicle Compret Compulsory Third (Motor Vehicle) Employers Liability (b) | House- hensive Party | 67,420 24,580 4,142 29,597 186,673 151,431 | 77,503 34,951 5,197 28,374 217,933 181,920 | 83,728 41,069 5,436 28,477 223,364 211,249 | 113,643 52,647 6,944 44,963 268,856 284,712 | (d)196,834 175,293 16,661 61,282 349,631 366,713 |
| CLA Fire (a) Houseowners' and holders' Contractors' All Risks Marine and Aviation Motor Vehicle Compre Compulsory Third (Motor Vehicle) | House- hensive Party | 67,420 24,580 4,142 29,597 186,673 151,431 126,850 | 77,503 34,951 5,197 28,374 217,933 181,920 165,021 | 83,728 41,069 5,436 28,477 223,364 211,249 245,008 | 113,643 52,647 6,944 44,963 268,856 284,712 353,838 | (d)196,834 175,293 16,661 61,282 349,631 366,713 494,143 |

⁽a) Includes Sprinkler Leakage. Crop, Hailstone and Loss of Profits insurance. (b) Excludes workers' compensation in coal-mining industry. (c) Includes Product Liability and Professional Indemnity insurance. (d) Excludes crop insurance in Northern Territory, which is included in 'All other'.

Summary information on foreign ownership and control of general insurance business is shown in Chapter 11. More detailed statistics are available in Foreign Ownership and Control of General Insurance Business, (Advance Release) 1972-73 (5.48) and Foreign Ownership and Control of General Insurance Business, 1972-73 (5.52).

PENSION AND SUPERANNUATION SCHEMES

Public authority pension and superannuation schemes

The Australian and all State Governments have established pension and superannuation schemes for their employees. These schemes are operated through funds to which both the Governments and their employees make contributions. Employees of local government and semi-government authorities are covered either by the Australian and State Government schemes or by a separate scheme of the authority which is operated either through a separately constituted fund or through a life insurance office.

Schemes operated through separately constituted funds

PUBLIC AUTHORITY PENSION AND SUPERANNUATION SCHEMES OPERATED THROUGH SEPARATELY CONSTITUTED FUNDS

| | | | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|------------------------------|--------|-------|-------|---|-----------|-----------|------------|-----------|-----------|
| Income— | | _ | ~ | | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 |
| Contributions— | | | | | • | * | • | | |
| Employees | | | | | 157,973 | 193,643 | 214,773 | 247,518 | 320,343 |
| Employing authorities. | | | | | 171,918 | 219,658 | 238,036 | 270,708 | 345,283 |
| Interest, dividends and | ent . | | | | 104,889 | 125,872 | 145,573 | 154,881 | 194,411 |
| Transfers | | | | - | | 29 | 1.149 | 10,245 | 8,349 |
| Other income | | | | | 12,734 | 9,000 | 13,238 | 10,941 | 14,387 |
| Total income . | | | • | | 447,513 | 548,202 | 612,769 | 694,292 | 882,774 |
| Expenditure- | | | | | | | | | |
| Pensions | | | | | 161,177 | 193,999 | 216,060 | 231,296 | 286,441 |
| Lump sum payments- | | | | | • | , | • | • | |
| On retirement, death, | resign | ratio | on or | | | | | | |
| dismissal(a). | ٠. | | | | 69,334 | 88,725 | 95,785 | 119,139 | 127,047 |
| Gratuities | | | | | 4,459 | 4,124 | 3,900 | 2,327 | 3,737 |
| Other expenditure . | | | | | 15,877 | 14,182 | 16,610 | 33,342 | 121,469 |
| Total expenditure. | | | | | 250,847 | 301,029 | 332,355 | 386,105 | 538,694 |
| Assets at end of year- | | | | | | | | | |
| Cash- | | | | | | | | | |
| Deposits with Treasur | v. | | | | 60,270 | 65.649 | 80,360 | 112,698 | 132,861 |
| Other deposits and ca | | | | | 31,676 | 29,271 | 28,994 | 90,235 | 88,171 |
| Australian Government | secur | ities | | | 166.125 | 188,465 | 208,969 | 176,572 | 204,058 |
| Local and semi-governm | | | | | 1,077,769 | 1,192,368 | 1,284,863 | 1,259,622 | 1,336,265 |
| Mortgages— | | | | • | .,, | -, | 1,20 .,000 | -,, | ., |
| Housing | | | | | 39,619 | 44,159 | 48,561 | 62,428 | 70,476 |
| Other | | | | - | 220,878 | 286,690 | 383,284 | 442,786 | 526,128 |
| Loans to building societ | ies . | | | | 34,893 | 52,775 | 48,220 | 48,614 | 55,921 |
| Company shares, debent | | and | notes | | 121,518 | 158,406 | 218,081 | 247,226 | 308,451 |
| Other assets | • | | • | | 129,961 | 152,154 | 168,968 | 155,352 | 222,157 |
| Total assets(b) . | | | | | 1,882,708 | 2,169,936 | 2,470,300 | 2,595,533 | 2,944,488 |
| Less Sundry creditors, et | c | | • | | 22,335 | 32,162 | 52,111 | 64,484 | 62,771 |
| Accumulated funds(| b) . | | | | 1,860,373 | 2,137,775 | 2,418,189 | 2,531,049 | 2,881,717 |
| | | | | | No. | No. | No. | No. | No. |
| Contributors at end of year- | | | • | • | 598,804 | 689,113 | 705,016 | 662,406 | 719,334 |
| Ex-employees | | | | | 70,620 | 74,861 | 78,360 | 61,621 | n.a. |
| Widows | • | | • | - | 30,606 | 39,960 | 44,168 | 45,828 | n.a. |
| Children | : | | • | • | 6,906 | 7,559 | 7,680 | 5,366 | n.a. |

⁽a) Includes refunds of contributions to continuing members. Scheme of the State Superannuation Fund in South Australia.

⁽b) Includes assets of the Voluntary Savings

Schemes operated through life insurance offices

PUBLIC AUTHORITY PENSION AND SUPERANNUATION SCHEMES OPERATED THROUGH LIFE INSURANCE OFFICES

| | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--|------------------|------------------|------------------|------------------|------------------|------------------|
| Income— Contributions— Employees . Employing authorities | \$'000 \$'000 | 12,985 17,782 | 11,187 15,042 | 11,259 15,929 | 12,210 16,425 | 18,363 23,705 |
| Contributors at end of year | No. | 91,429 | 62,322 | 62,332 | 60,871 | 63,404 |

Parliamentary pension and superannuation schemes

Pension and superannuation schemes have been established for members of the Australian and State Parliaments. All the schemes are operated through funds to which the members of Parliament and the Australian or State Governments contribute.

PARLIAMENTARY PENSION AND SUPERANNUATION SCHEMES(a)

| | | | | - | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|-----------------------------------|----------|-------|-------|------|--------------|---------------|---------|--------------|---------|
| | | | | | \$'000 | \$'000 | \$'000 | \$'000 | \$,000 |
| Income— | | | | | V 000 | \$ 000 | • 000 | V 000 | • 000 |
| Contributions— | | | | | | | | | |
| Members . | _ | | | _ | 657 | 767 | 855 | 766 | 988 |
| Government . | - | • | | - | 1,322 | 1,386 | 1,820 | 2,273 | 2,949 |
| Interest and other inco | me | | | · | 400 | 456 | 482 | 374 | 481 |
| | | • | • | • | | | | | |
| Total income | | • | • | • | 2,379 | 2,608 | 3,158 | 3,413 | 4,417 |
| Expenditure- | | | | | | | | | |
| Pension payments | | | | | 1,395 | 1,599 | 1,778 | 1,477 | 1,805 |
| Other | | | | | 294 | 259 | 1,102 | 789 | 1,893 |
| | • | | | | | | -, | | • |
| Total expendi | ture | | • | • | 1,690 | 1,858 | 2,880 | 2,266 | 3,697 |
| Assets at end of year— Cash— | | | | | | | | | |
| Deposits with Treasu | ury | | | | 86 | 188 | 368 | 708 | 693 |
| Other deposits and c | ash | | | | 34 | 192 | 113 | 266 | 15 |
| Australian Governmen | t secu | ıriti | es | | 1,005 | 1,064 | 1,034 | 352 | 352 |
| Local government and | semi | i-go | vernn | ient | | • | • | | |
| securities . | | | | | 4,344 | 4,511 | 4,655 | 3,166 | 4,267 |
| Other assets . | | • | • | • | 1,522 | 1,778 | 1,853 | 2,249 | 2,861 |
| Total assets | | | | | 6,991 | 7,734 | 8,024 | 6,741 | 8,189 |
| Less Sundry creditors, | etc. | | • | | 21 | 13 | 25 | 28 | 756 |
| Accumulated | funds | | • | | 6,970 | 7,720 | 7,999 | 6,713 | 7,433 |
| | | | | | No. | No. | No. | No. | No. |
| Contributors at end of ye | ear— | | | | | | -10 | 525 | 531 |
| Males | • | • | • | • | 656 | 717 | 718 | 535 | 19 |
| Females Pensioners at end of year | <u>.</u> | • | • | • | 9 | 15 | 15 | 15 | 19 |
| Ex-members . | | | _ | | 304 | 280 | 312 | 230 | 230 |
| Widows(b) | • | • | • | • | 213 | 215 | 215 | 166 | 167 |
| | • | • | • | • | 2.5 | 2.3 | 2.5 | | |

⁽a) Includes the Ministerial Retiring Allowances Fund. mentary pensions.

⁽b) Includes children in receipt of Australian Parlia-

Coal and oil-shale mine workers' superannuation schemes

In all States except South Australia superannuation schemes have been established for coal and oil-shale mine workers. These schemes are operated through funds to which mine workers, mine owners and the State Governments contribute.

COAL AND OIL-SHALE MINE WORKERS' SUPERANNUATION SCHEMES(a)

| | | 1970–71 | 1971–72 | 1972-73 | 1973-74 | 1974–75 |
|---|----|---------|---------|---------|---------|---------|
| | | \$,000 | \$'000 | \$'000 | \$,000 | \$,000 |
| Income— | | | | | | |
| Contributions | • | 6,664 | 7,473 | 7,668 | 7,739 | 9,547 |
| Interest, dividends, rent and other incon | ne | 1,447 | 1,530 | 1,597 | 1,726 | 1,935 |
| Total income | • | 8,111 | 9,003 | 9,265 | 9,465 | 11,482 |
| Expenditure— | | | | | | |
| Pensions and lump sum payments | | 7,360 | 7,987 | 7,749 | 7,827 | 9,391 |
| Other | | 210 | 330 | 282 | 320 | 377 |
| Total expenditure | | 7,570 | 8,317 | 8,031 | 8,147 | 9,769 |
| Assets at end of year— | | | | | | |
| Local government and semi-governme | nt | | | | | |
| securities | • | 24,227 | 25,074 | 25,961 | 26,768 | 29,102 |
| Other assets | • | 1,884 | 1,688 | 2,080 | 2,644 | 2,077 |
| Total assets | | 26,111 | 26,761 | 28,041 | 29,412 | 31,180 |
| Less Sundry creditors, statutory reser | ve | | | | | |
| funds, etc | | 144 | 109 | 154 | 67 | 276 |
| Accumulated funds | | 25,967 | 26,652 | 27,887 | 29,345 | 30,904 |
| | | No. | No. | No. | No. | No |
| Number of contributions at end of year | | 18,697 | 18,970 | 18,742 | 19,102 | 21,542 |
| Number of pensioners at end of year | • | 11,770 | 11,657 | 11,976 | 12,044 | 12,090 |

(a) Operating in all States except South Australia.

Private superannuation, pension and retiring allowance schemes

In 1955-56, 1960-61, 1961-62 and 1962-63 the Bureau conducted sample surveys of pension and retiring allowance schemes in private businesses subject to pay-roll tax, other than in rural industries, private domestic service, and certain businesses such as accountants, trade associations, consultant engineers, etc. Commonwealth Government airlines and banks were included where they had established their own funds separately from the Commonwealth Government superannuation funds, but statutory coal miners' pension funds were excluded. Details were asked for three types of pension and retiring allowance schemes. They were (a) schemes operated through life insurance offices, (b) schemes operated through separately constituted funds, and (c) direct payments of pensions and retiring allowances.

The results of the 1955-56 survey are available in *Finance* Bulletin No. 47, Part I—*Public and Private Finance*, and the 1960-61, 1961-62 and 1962-63 survey results were published in *Insurance and Other Private Finance*, Bulletin No. 2 and Year Book No. 51 (pages 898-900).

For the years 1956-57 to 1958-59, 1963-64 and 1964-65, information was collected from a small number of the larger separately constituted funds. Although only a small number of funds was included in these collections they accounted, in 1962-63, for about 27 per cent of the income, 28 per cent of the expenditure and about 34 per cent of the total assets of the separately constituted funds covered by the more comprehensive sample survey conducted for 1962-63.

Information for these selected funds for the years 1955-56, 1960-61, 1961-62 and 1962-63 was extracted from the returns obtained in the sample surveys conducted for those years and results of the survey for 1964-65, together with comparative figures for previous years, were published in April 1966 in a mimeographed bulletin (S.B. 383).

In order to improve the coverage of the published statistics of private pension funds, returns were collected from some additional funds for 1964-65 and tabulated with the returns from the survey for 1964-65 referred to above. The separately constituted private pension funds included in the enlarged 1964-65 survey together accounted, in 1962-63, for about 72 per cent of the total contributions, 71 per cent of the income, 68 per cent of the expenditure and 77 per cent of the assets of the separately constituted funds covered by the more comprehensive sample survey conducted for 1962-63. The results of the enlarged 1964-65 survey were published in September 1966 in a mimeographed bulletin (S.B. 493).

Further surveys, relating to the same funds that were included in the enlarged 1964-65 survey of selected private pension funds, have been made in respect of each year from 1965-66 to 1974-75 inclusive. Since the Survey of Selected Private Pension Funds for 1974-75 is not a representative sample it is not known to what extent their share of the whole field has changed since the 1962-63 survey; nor is the pattern of income, expenditure and asset distribution of the large funds included in this survey necessarily representative of the whole field.

The statistics do not relate to uniform accounting periods but to the financial years of the funds which ended in the years shown.

SELECTED SEPARATELY CONSTITUTED PRIVATE PENSION FUNDS: INCOME AND EXPENDITURE

(\$ million)

| | | | | INCOM | E | | | |
|---------|------|----------------------------------|----------------------------------|--|---|--|--------------------|-----------------|
| | | Employees' contri- butions | Employers' contri- butions | Interest on Aust. Govt local and semi-govern- ment securities | Other interest, dividends and rent | Profit from sale or revaluation of assets | Other income(a) | Total income |
| 1970-71 | | 43.9 | 84.0 | 28.0 | 50.9 | 4.1 | 4.0 | 214.8 |
| 1971-72 | | 48.0 | 91.7 | 30.6 | 56.0 | 16.2 | 9.0 | 251.5 |
| 1972-73 | | 59.0 | 106.8 | 35.8 | 65.0 | 18.5 | 6.7 | 291.9 |
| 1973-74 | | 68.0 | 146.4 | 33.6 | 79. <i>9</i> | 8.8 | 5.1 | 341.8 |
| 1974–75 | | 87.1 | 194.8 | 40.8 | 98.3 | 3.5 | 12.4 | 436.9 |
| | | | | | | | | |

Lump sum payments To former employees Pensions paid Loss on On Other To sale or Widows On revaluaresignawidows expen-Total retiretion of tion or or expenchildren employees Total ment dismissal children Total assets (b) diture 23.3 28.6 31.7 4.2 4.4 4.9 5.6 6.5 47.5 55.9 72.0 78.5 27.5 33.0 25.7 31.3 17.4 20.0 6.2 5.3 4.6 5.9 5.9 23.0 27.3 30.7 10.1 10.5 38.5 36.6 42.4 2.0 19.3 43.1 36.8 45.3 52.1 42.9

EXPENDITURE

⁽a) Includes receipts from life insurance offices, sub-underwriting commissions, etc. (b) Includes administrative expenses payable from funds, payments to life insurance offices, etc.

SELECTED SEPARATELY CONSTITUTED PRIVATE PENSION FUNDS: ASSETS(a)

| | | Carl | Aust. Govt | Local ana semi- | Loans on mortgage | | Com- pany deben- | S | و و | All | | Less | 4 |
|---|---|--------------------------------------|---|---|---|--------------------------------------|---|---|--------------------------------------|---------------------------------|---|--------------------------------------|---|
| | | Cash in hand or in bank | Govt securi- ties | ment securi- ties | To com- panies | Other | tures, notes, etc(b) | Shares in com- panies | Land and build- ings | other assets (c) | Total assets | sundry credi- tors, etc. | Amount of funds in Aus- tralia |
| | | | | | | MOUI | NT (\$ 1 | nillion) | | | | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | | 24.4 35.0 36.2 32.2 41.6 | 242.3 280.9 311.3 353.3 400.4 | 221.4 227.8 235.8 242.8 254.4 | 106.4 102.2 137.9 148.8 173.7 | 41.3 51.5 35.7 46.8 39.8 | 320.6 345.3 371.1 392.9 431.4 | 400.9 449.5 506.7 568.5 613.3 | 26.1 34.2 43.7 53.2 73.0 | 46.5 70.1 100.9 | 1,418.6 1,572.8 1,748.4 1,939.5 2,163.3 | 10.0 10.1 12.8 14.4 13.5 | 1,408.5 1,562.7 1,735.7 1,925.0 2,149.8 |
| | | | | | PERCE | ENTAG | E DIS | ribut | ION | - | | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | • | 1.7 2.2 2.1 1.7 1.9 | 17.1 17.9 17.8 18.2 18.5 | 15.6 14.5 13.5 12.5 11.7 | 7.5 6.5 7.9 7.7 8.0 | 2.9 3.3 2.0 2.4 1.8 | 22.6 22.0 21.2 20.3 20.0 | 28.3 28.6 29.0 29.3 28.4 | 1.8 2.2 2.5 2.7 3.4 | 2.5 3.0 4.0 5.2 6.3 | 100.0 100.0 100.0 100.0 100.0 | 0.7 0.6 0.7 0.7 0.6 | 99.3 99.4 99.3 99.3 99.4 |

(a) Book values at balance dates. (b) Includes other loans to companies, in the short-term money market and loans to building societies.

(c) Includes loans to authorised dealers

FINANCE COMPANIES

Information relating to the lending operations of finance companies in Australia is given in the following tables. A comprehensive account of the scope of these statistics and fuller details of the transactions of finance companies, together with definitions of the various categories of finance agreements and of the items of data given in the tables, are provided in the bulletin *Finance Companies Transactions* 1973–74 (5.13) and in the monthly statements *Finance Companies* (5.14). For the purposes of these statistics, finance companies are defined as companies which are engaged mainly in providing to the general public (businesses as well as persons in their private capacity) credit facilities of the following types: instalment credit for retail sales, personal loans, wholesale finance, factoring, other consumer and commercial loans, financial leasing of business plant and equipment, and bills of exchange. The finance companies covered in these statistics, insofar as they provide instalment credit for retail sales, are also *included* in the statistics of Instalment Credit for Retail Sales (*see* pages 542–3.).

In general, companies which are engaged both in financing activities and other activities come within the scope of these statistics, provided that the major portion of their assets consists of financial assets of the types listed above and/or a major proportion of their income is derived from such assets. Companies are excluded if the major proportion of their balances outstanding consists of agreements written for the purpose of financing their own sales. Companies which are engaged mainly in financing, in any way, the operations of related companies ('related' as defined in the Companies Act) are also excluded from these statistics, as are unincorporated finance companies. Also excluded are the following classes of financial and quasi-financial institutions: banks; life insurance companies; fire, marine and general insurance companies; short-term money market dealers; pastoral finance companies; investment companies; unit trusts; land trusts; mutual funds and management companies for the foregoing trusts and funds; pension and superannuation funds; building and friendly societies; credit unions.

Breaks in series: The scope of the monthly collection has been altered on a number of occasions since July 1970. The major changes are as follows: (i) from July 1971, the definition of a finance company was altered to raise the exclusion level on balances outstanding from \$100,000 to \$500,000; (ii) from July 1973, the definition of a finance company was altered to include financial leasing of business plant and equipment and bill of exchange transactions as qualifying assets; and (iii) from July 1973, the item 'Instalment Credit for Retail Sales' has been redefined to exclude details of financing 'producer' type goods such as plant and machinery, tractors, earthmoving equipment, business machines and commercial motor vehicles. Details of the financing of such goods are now included in 'Other Commercial Loans'.

Summary information on foreign ownership and control of finance companies is shown in Chapter 11. More detailed statistics are available in Foreign Ownership and Control of Finance Companies (Advance Release) 1973 (5.47) and Foreign Ownership and Control of Finance Companies, 1973 (5.50).

FINANCE COMPANIES

FINANCE COMPANIES: SUMMARY, AUSTRALIA (\$ million)

| | | | | Collections | and other liqu | uidations | Balances ou year | ststanding at | end of |
|-------------------------------|---|---|-------------------------------|-----------------------------------|-----------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-------------------------------|
| | | | Amount financed | Contracts including charges | Contracts excluding charges | All | Contracts including charges | Contracts excluding charges | All contracis (a) |
| 1971-72 | | | 5,512.6 | 2,020.2 | 3,449.6 | 5,469.8 | 3,077.0 | 1,821.8 | 4,898.7 |
| 1972-73 | | | 5,704.5 | 2,414.7 | 3,301.2 | 5,715.8 | 3,435.2 | 2,228.3 | 5,663.5 |
| 1973-74 1974-75 1975-76 | : | : | 7,256.9 5,721.3 7,618.2 | 2,671.3 2,780.9 3,232.9 | 3,966.4 4,006.5 5,021.0 | 6,637.5 6,787.4 8,254.0 | 4,409.2 4,432.5 5,369.8 | 3,446.3 3,672.2 3,857.2 | 7,855.5 8,104.8 9,227.0 |

⁽a) Amounts shown in this column are intended to provide a broad overall measure of total balances outstanding. However, movements in this series may be affected by changes in the proportions of the two components of the series to the total.

FINANCE COMPANIES: AMOUNT FINANCED, COLLECTIONS AND OTHER LIQUIDATIONS OF BALANCES, AND BALANCES OUTSTANDING BY TYPE OF AGREEMENT

| (\$ | million) |
|-----|----------|
| | |

| | | Other const | | | | | | | |
|--|--|---|--|--|--|---|------------------|-----|---|
| Tota | Contracts excluding charges | Contracts including charges | Factoring | Wholesale finance | Personal loans | Instalment credit for retail sales | | | |
| | - | EAR | DURING Y | INANCED | MOUNT F | A | | | |
| | | · · · · | | | | | | | |
| 5,512.6 | 1.9 | 2,79 | 98.5 | 1,294.0 | 206.4 | 1,121.8 | | | 1971–72 |
| 5,704. | 39.3 | 2,68 | 109.1 | 1,439.5 | 272.7 | 1,193.8 | | | 1972-73 |
| 7,256.9 | 71.4 | 3,77 | 152.0 | 1,845.6 | 341.5 | 1,146.2 | | | 1973-74 |
| 5,721. | 04.7 | 1,90 | 183.2 | 2,143.5 | 335.5 | 1,154.5 | | | 1974-75 |
| 7,618.2 | 2.5 | | 237.4 | 2,873.9 | 505.3 | 1,389.2 | • | | 1975-76 |
| .R | JRING YEA | ANCES DI | NS OF BAL | OUIDATIO | OTHER LI | ONS AND (| ECT | OLL | C |
| | | | | - | | 1,405.6 | | | |
| 5 460 6 | 2.026.0 | 444 4 | 115 4 | 1 2/0 7 | | | | | 1971-72 |
| 5,469.8 | 2,036.8 | 444.4 | 115.4 | 1,268.7 | 199.0 | 1,403.0 | • | - | |
| 5,469.8 5,715.8 | 1,666.3 | 678.3 | 115.4 | 1,268.7 1,473.4 | 280.5 | 1,491.0 | | | 1972–73 |
| 5,715.8 | 1,666.3 | 678.3 | 126.4 | 1,473.4 | 280.5 | 1,491.0 | • | | |
| , , , , , , | <u> </u> | | | 1,473.4 | 280.5 | 1,491.0 | • | | 1972-73 1973-74 1974-75 |
| 5,715.8 | 1,666.3 | 678.3 | 126.4 | 1,473.4 | 280.5 | 1,491.0 | | | 1973–74 |
| 5,715.8 6,637.5 6,787.4 | 1,666.3 1,954.3 1,622.8 | 1,004.8 999.2 1,073.8 | 126.4 159.8 212.5 | 1,473.4 1,817.0 2,130.0 2,721.0 | 280.5 349.3 390.1 521.9 | 1,491.0 1,352.4 1,432.8 1,613.9 | · · · · | | 1973–74 1974–75 |
| 5,715.8 6,637.5 6,787.4 | 1,666.3 1,954.3 1,622.8 | 1,004.8 999.2 1,073.8 | 126.4 159.8 212.5 264.9 | 1,473.4 1,817.0 2,130.0 2,721.0 | 280.5 349.3 390.1 521.9 | 1,491.0 1,352.4 1,432.8 1,613.9 | | | 1973–74 1974–75 |
| 5,715.8 6,637.5 6,787.4 8,254.0 | 1,666.3 1,954.3 1,622.8 2,058.3 | 678.3 1,004.8 999.2 1,073.8 DF YEAR | 126.4 159.8 212.5 264.9 | 1,473.4 1,817.0 2,130.0 2,721.0 | 280.5 349.3 390.1 521.9 | 1,491.0 1,352.4 1,432.8 1,613.9 BALAN | | | 1973–74 1974–75 1975–76 |
| 5,715.8 6,637.5 6,787.4 8,254.0 | 1,666.3 1,954.3 1,622.8 2,058.3 | 678.3 1,004.8 999.2 1,073.8 DF YEAR 1,028.1 1,220.2 | 126.4 159.8 212.5 264.9 AT END (| 1,473.4 1,817.0 2,130.0 2,721.0 STANDING 237.0 | 280.5 349.3 390.1 521.9 CES OUTS 278.4 373.6 | 1,491.0 1,352.4 1,432.8 1,613.9 BALAN 1,791.2 1,866.8 | | | 1973–74 1974–75 1975–76 1971–72 1971–72 |
| 5,715.8 6,637.5 6,787.4 8,254.6 4,898.7 5,663.5 | 1,666.3 1,954.3 1,622.8 2,058.3 1,538.4 1,951.3 | 678.3 1,004.8 999.2 1,073.8 DF YEAR 1,028.1 | 126.4 159.8 212.5 264.9 AT END C 25.7 27.2 | 1,473.4 1,817.0 2,130.0 2,721.0 STANDING 237.0 224.4 | 280.5 349.3 390.1 521.9 CES OUTS | 1,491.0 1,352.4 1,432.8 1,613.9 BALAN 1,791.2 | | | 1973–74 1974–75 1975–76 |

(a) Prior to July 1972, included liquidity placements.

FINANCE COMPANIES: LEASING, BILLS OF EXCHANGE AND LOANS TO NON-FINANCE COMPANIES, AUSTRALIA

(\$ million)

| | | | Leasing of b | | Bills of excha | Bills of exchange | | | | | |
|---------|----------|---|--|---------|----------------|---|--|--|--|--|--|
| | 972-73 . | | Value of goods newly leased during period | | bills acquired | Amounts re- ceived for bills disposed of during period | Balances outstanding at end of period | Loans to non-finance companies in group | | | |
| 1971-72 | | • | 304.1 | 648.0(| | | 83.7 | 30.2 | | | |
| 1972-73 | ٠ | • | 400.9 | 803.8 | 493.8 | 453.4 | 124.1 | 52.4 | | | |
| 1973-74 | | | 668.2 | | 2,105.5 | | 410.5 | 142.1 | | | |
| 1974-75 | | | 586.2 | 1,430.0 | 3,578.8 | | 547.8 | 197.9 | | | |
| 1975–76 | • | | 1,007.8 | 1,915.5 | 4,177.4 | 4,055.1 | 658.6 | 262.9 | | | |

⁽a) As from July 1971 the valuation is 'gross receivables' and figures have been partly estimated. For more details see explanatory notes to the bulletin Finance Companies Transactions 1973-74 (Reference No. 5.13).

INSTALMENT CREDIT FOR RETAIL SALES

Information relating to instalment credit for retail sales in Australia is given in the following tables. More detailed information may be found in the July, August and September 1973 issue of the monthly bulletin *Instalment Credit for Retail Sales* (5.46).

The statistics cover the operations of instalment credit schemes which relate primarily to the financing of retail sales of consumer commodities. In general, the term instalment credit is defined as relating to schemes in which repayment is made by regular predetermined instalments (predetermined by amount or by percentage of amount financed or balance outstanding). Types of instalment credit schemes covered include hire purchase, time payment, budget account and personal loans where these schemes relate primarily to the financing of retail sales of consumer commodities.

Figures for amounts financed exclude interest, hiring charges, insurance, etc. Figures for balances outstanding and collections include interest, hiring charges, insurance, etc.

INSTALMENT CREDIT FOR RETAIL SALES, BY TYPE OF BUSINESS: AMOUNT FINANCED, BY COMMODITY GROUP, COLLECTIONS, AND BALANCES OUTSTANDING, AUSTRALIA

(\$ million)

| | Amount) | financed duri | ing year | | | Collections | |
|----------------------|-----------------------|---------------|-----------------|-------------------|---------|--|-------------------------|
| | Motor ca station w | | Other motor | Household and | | and other liquidations of balances | Balances outstanding |
| | New | Used | vehicles (a) | personal goods | Total | during year | at end of year |
| Finance companies— | | | | | | | |
| 1973–74 | 371.7 | 468.5 | 78.9 | 227.1 | 1,146.2 | 1,352.4 | 1,761.9 |
| 1974-75 | 428.5 | 413.3 | 75.4 | 237.4 | 1,154.5 | 1,432.8 | 1,922.0 |
| 1975–76 | 433.6 | 536.6 | 124.4 | 294.5 | 1,389.2 | 1,613.9 | 2,248.3 |
| Other businesses(b)— | | | | | | | |
| 1973–74 | 1.0 | 0.8 | 5.6 | 219.1 | 226.4 | 233.8 | 174.1 |
| 1974–75 | 0.4 | 0.4 | 5.6 | 239.0 | 245.4 | 263.0 | 174.8 |
| 1975-76 | 0.3 | 0.1 | 5.9 | 237.9 | 244.1 | 267.8 | 172.4 |
| Total-all | | | | | | | |
| businesses— | | 460.0 | | 446.0 | | | |
| 1973–74 | 372.7 | 469.2 | 84.4 | 446.2 | 1,372.5 | 1,586.3 | 1,935.9 |
| 1974–75 | 428.9 | 413.7 | 81.0 | 476.4 | 1,400.0 | 1,695.8 | 2,096.8 |
| 1975–76 | 433.9 | 536.7 | 130.3 | 532.4 | 1,633.3 | 1,882.0 | 2,420.8 |

⁽a) Includes new and used motor cycles, boats, caravans, trailers and motor parts and accessories but excludes panel vans, utilities, trucks, tractors and other vehicles normally used for commercial purposes.

⁽b) Businesses operating retail establishments, unincorporated finance businesses and businesses other than wholesalers and manufacturers.

INSTALMENT CREDIT FOR RETAIL SALES, BY TYPE OF CREDIT AMOUNT FINANCED, BY COMMODITY GROUP, AUSTRALIA

(\$ million)

| | | | | Motor ca station w | | Other | Household and | |
|--------------|------|---------|-----|-----------------------|-------|-----------------|-------------------|---|
| | | | | New | Used | vehicles (a) | personal goods | 842.7 787.5 942.3 529.8 612.4 |
| Hire purch: | ase— | _ | | | | | | |
| 1973-74 | | | | 273.6 | 354.0 | 64.7 | 150.4 | 842.7 |
| 1974-75 | | | | 310.8 | 283.5 | 60.3 | 132.9 | 787.5 |
| 1975–76 | | | | 318.4 | 379.8 | 100.6 | 143.4 | 942.3 |
| Other insta | lmer | t cred | it— | | | | | |
| 1973-74 | | | | 99.0 | 115.2 | 19.8 | 295.8 | 529.8 |
| 1974-75 | | | | 118.1 | 130.2 | 20.7 | 343.5 | 612.4 |
| 1975-76 | | | | 115.5 | 156.8 | 29.6 | 389.0 | 691.0 |
| Total instal | men | t credi | it— | | | | | |
| 1973-74 | | | | 372.7 | 469.2 | 84.4 | 446.2 | 1,372.5 |
| 1974-75 | | | | 428.9 | 413.7 | 81.0 | 476.4 | 1,400.0 |
| 1975-76 | | - | | 433.9 | 536.7 | 130.3 | 532.5 | 1,633.3 |

⁽a) Includes new and used motor cycles, boats, caravans, trailers and motor parts and accessories but excludes panel vans, utilities, trucks, tractors and other vehicles normally used for commercial purposes.

PASTORAL FINANCE COMPANIES

PASTORAL FINANCE COMPANIES: RURAL ADVANCES AMOUNTS OUTSTANDING(a)

(Source: Reserve Bank of Australia)

(\$ million)

| End of | June- | <u> </u> | N.S.W. | Vic. | Qld | S.A. | W.A. and Tas. | Total |
|--------|-------|----------|--------|------|------|--------------|---------------------|-------|
| 1971 | | | 70.8 | 57.2 | 69.6 | 73. 7 | 61.7 | 333.0 |
| 1972 | | | 60.6 | 57.2 | 57.0 | 63.3 | 54.4 | 292.5 |
| 1973 | | | 65.3 | 68.0 | 53.3 | 57.3 | 59.2 | 303.1 |
| 1974 | | | 78.0 | 86.1 | 59.1 | 72.0 | 76.0 | 371.1 |
| 1975 | | | 51.6 | 55.8 | 44.8 | 68.0 | 59.1 | 279.4 |

⁽a) Compiled from returns supplied to the Reserve Bank by major pastoral finance companies. Advances are classified according to the location of the branch holding the advance, which in some cases may differ from the State of residence of the borrower.

PASTORAL FINANCE COMPANIES: LIABILITIES AND ASSETS(a)

(Source: Reserve Bank of Australia)

(\$ million)

| • | | - | | 70 | | - | _ |
|-----|----|----|----|-----|----|----|---|
| - L | IΑ | ·В | 11 | .11 | IJ | E. | 3 |

Dehentures notes

| | | | | | and deposits | | | | | |
|--------------|--|------------|-----------------------------|--------------------------------|--|-------|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| End of June— | | · <u> </u> | Balances due to banks | Clients' credit balances | Maturing within twelve months | Other | Other outside liabilities | Share- holders' funds | Overseas liabilities | Total liabili- ties/ assets |
| 1971 | | | 96.2 | 31.9 | 85.3 | 78.4 | 122.1 | 179.6 | 128.6 | 722.0 |
| 1972 | | | 57.1 | 35.1 | 137.6 | 86.4 | 150.2 | 183.3 | 124.0 | 773.6 |
| 1973 | | | 54.7 | 57.6 | 207.5 | 94.3 | 196.6 | 199.1 | 129.3 | 939.1 |
| 1974 | | | 121.8 | 48.9 | 176.9 | 94.4 | 194.1 | 210.7 | 137.9 | 984.7 |
| 1975 | | • | 74.7 | 37.5 | 209.0 | 105.7 | 192.8 | 259.7 | 86.7 | 966.1 |

ASSETS

| | | | Cash and deposits with | Loans to author- ised money market | Other short- term assets | Aust. Govt securi- | Advance sundry d | | | Fixed | Other |
|--------------|----|-------|---------------------------------|--|-----------------------------------|--------------------------|---------------------|--------|--------|--------|-------|
| End of June- | ie | banks | | (b) | ities | Rural | Other | Stocks | assets | assets | |
| 1971 | | | 10.7 | 3.3 | 28.8 | 35.7 | 333.0 | 33.9 | 42.3 | 190.9 | 43.3 |
| 1972 | | | 10.0 | 15.0 | 60.8 | 65.7 | 292.5 | 32.1 | 48.9 | 185.3 | 63.4 |
| 1973 | | | 14.9 | 19.1 | 171.7 | 58.3 | 303.1 | 45.7 | 67.2 | 190.0 | 69.2 |
| 1974 | | | 14.5 | 10.5 | 127.0 | 21.4 | 371.1 | 61.8 | 95.8 | 205.3 | 77.4 |
| 1975 | | | 11.2 | 5.7 | 149.1 | 27.8 | 279.4 | 61.5 | 114.8 | 236.4 | 80.4 |

⁽a) Compiled from returns supplied to the Reserve Bank by major pastoral finance companies. (b) Excludes Australian Government securities.

RURAL DEBT

Major sources of credit for rural purposes include banks, Australian and State governments, financial agencies, pastoral finance companies, and life insurance companies. The following table shows the estimated rural debt to these lenders.

ESTIMATED RURAL DEBT TO SPECIFIED LENDERS

(Source: Reserve Bank of Australia)

(\$ million)

| | 30 June— | = | | | |
|-----------------------------------|----------|-------|-----------------|-------|-------|
| Lender | 1971 | 1972 | 1973 | 1974 | 1975 |
| Major trading banks | 994 | 963 | 1.051 | 1,161 | 1,220 |
| Ex-service settlement | 83 | 79 | [*] 71 | 61 | 58 |
| Other government, including State | | | | | |
| banks and State savings banks . | 374 | 432 | 481 | 500 | 552 |
| Pastoral finance companies | 333 | 293 | 303 | 371 | 279 |
| Commonwealth Development Bank | 192 | 202 | 198 | 203 | 232 |
| Life insurance companies | 129 | 125 | 117 | 107 | 104 |
| Total | 2,104 | 2,094 | 2,221 | 2,403 | 2,445 |

In addition, credit is supplied to the rural sector by finance companies, merchants, co-operative producer organisations, and by private lenders and investors, the most noteworthy of these last-mentioned sources involving family arrangements and property vendors. No data are currently available on the extent of the outstanding debt by the rural sector to these sources.

NEW CAPITAL RAISINGS BY COMPANIES IN AUSTRALIA

Information relating to capital raised by companies in Australia is given in the following tables. More detailed information may be found in the quarterly bulletin *New Capital Raisings by Companies in Australia* (5.9).

In general, in the case of listed companies, these statistics cover capital raised through share and debenture subscriptions and by way of deposits, unsecured notes and loans secured over the entire assets of the company; in the case of unlisted companies, they cover capital raised through share subscriptions and by way of loans secured over the entire assets of the company. The following funds are excluded:

- (a) All capital raised from Australian banks (other than direct equity investment) i.e., overdrafts, mortgage loans, term loans or debentures,
- (b) Temporary advances or short-term deposits from any source, and
- (c) Complete or partial issues by Australian companies on overseas markets taken up through overseas brokers.

Classification of companies and securities

Listed companies are companies incorporated in Australia whose shares, debentures, or other securities are listed on one or more of the Australian Stock Exchanges. For such companies new capital includes:

- (a) all issues of ordinary shares if any ordinary shares are listed,
- (b) all issues of preference shares if any preference shares are listed, and
- (c) all issues of debentures, unsecured notes, secured and unsecured loans, and deposits if any shares or other securities are listed.

Untisted companies are all other companies (including subsidiaries of listed companies and of overseas companies) incorporated in Australia (excluding overseas territories). Statistics of capital raisings for such companies include raisings not covered by (i) and debentures, notes, etc., raised by overseas public companies through their Australian offices.

The following notes relate to specific items in the tables.

New Money

This is the net amount of cash transferred from the 'investing public' to the 'company sector'. For this purpose the 'investing public' is defined to include all non-company subscribers, Australian life insurance companies, Australian government and private superannuation funds and banks. In practice, it is necessary to include in 'new money' most subscriptions by companies holding less than 5 per cent of the ordinary shares of an issuing company as it is not practicable to separately identify all such subscriptions. However, where large subscriptions by companies holding less than 5 per cent of the ordinary shares in the issuing company are identified they are not included in 'new money'. Subscriptions by Australian life insurance companies and Australian government and private superannuation funds are included in 'new money' irrespective of their holdings of ordinary shares in the issuing company. Subscriptions by overseas banks, life insurance companies and superannuation funds are excluded from 'new money' whether they hold more or less than 5 per cent of the ordinary shares of the issuing company.

Amount not involving new money

This amount includes cash subscriptions received by issuing companies from associated companies. Also included are amounts which, although subscribed by the 'investing public' (i.e. subscribers other than 'associated companies') are not retained by the issuing company or its associates, but are used to redeem shares, debentures or unsecured notes, etc., or are used to purchase, from individuals, existing shares, debentures, etc., in other companies, including existing shares, etc., in associated and subsidiary companies, and therefore do not represent a net transfer of cash from the 'investing public' to the companies. In the tables which follow, the 'amount not involving new money' is obtained by deducting from the total cash raised the amount of 'new money'.

LISTED COMPANIES: NEW CAPITAL RAISED THROUGH ISSUES OF SHARES DEBENTURES, OR REGISTERED NOTES, ETC (a), OR ACCEPTING DEPOSITS(b) (\$ million)

Debentures, registered notes and deposits Share capital Non-Amount cash issues Cash Amount not involving Value of Cash raised Total not inissues comissues during volving amount new menced New New raised monev comcomperiod new menced (d) money (c) money (e) money 255.0 203.2 265.6 171.1 323.6 1971–72 1972–73 1973–74(*f*) 398.8 405.0 610.3 3,650.3 3,629.6 6,794.5 655.4 712.5 256.5 342.2 362.5 87.3 159.3 116.5 2,925.5 3,026.0 724.9 603.6 5,505.6 5.362.0 1,288.9 363.4 382.0 1974-75 399 4 122.3 125.8 296.7 378.8 6,310.6 5,046.7

UNLISTED COMPANIES: NEW CAPITAL RAISED THROUGH ISSUE OF SHARES AND LOANS SECURED BY CHARGES OVER THE COMPANIES' ENTIRE ASSETS

(\$ million)

| | | Share capit | al | | | | | Loans secured by charges over the companies' entire assets | | | |
|---|---|---|---|---|---|--|--------------------------------------|--|---|--------------------------------------|--|
| | | Value of issues com- menced(a) | Non- cash issues com- menced (b) | Cash issues com- menced | Cash raised during period (c) | Amount not in- volving new money | New money | Total amount raised (d) | Amount not in- volving new money (d) | New money | |
| 1971-72 1972-73 1973-74 1974-75 1975-76 | : | 783.7 655.1 948.6 567.6 701.1 | 353.1 287.7 397.8 181.9 303.2 | 430.6 367.4 550.8 385.7 398.0 | 469.5 381.8 500.3 418.0 403.9 | 403.8 319.0 428.3 374.0 360.5 | 65.6 62.8 71.9 44.0 43.5 | 127.1 123.0 140.8 110.6 74.0 | 95.2 79.6 100.0 70.8 60.1 | 31.9 43.4 40.8 39.8 13.9 | |

⁽a) From 1970-71, issues with a nominal value of \$200 or less are excluded. (b) Includes bonus issues, conversion issues, issues in exchange for existing shares, etc. (c) Amounts paid up on issues commenced during year plus calls on issues commenced in previous years. (d) Includes conversion, renewals etc.

⁽a) Includes convertible notes. (b) Deposits accepted by banks. life insurance companies, pastoral companies and building societies, and loans to authorised dealers in the short-term money market are excluded. (c) Includes bonus issues, conversion issues, issues in exchange for existing shares, etc. (d) Amounts paid up on issues commenced during the year plus calls on issues commenced in earlier years. (e) Includes conversions, renewals, etc. (f) Prior to July 1973 includes details of companies incorporated in Papua New Guinea.

LISTED AND UNLISTED COMPANIES: NEW MONEY RAISED, BY INDUSTRY GROUP

(\$ million)

| Companies | listed | on | stock |
|-----------|--------|----|-------|
| exchanges | | | |

| | | | | exchanges | | | | | | |
|--------------|--------|--------|-----|---------------------|-------------------------------|------------|---------------------|---------------------|-------|----------------|
| | | | | | Deben- tures registered | | Companies exchanges | not listed on : | stock | |
| | | | | Share capital(a) | notes and deposits(b) | Total | Share capital(a) | Secured loans(c) | Total | Grand total |
| Manufactur | ing— | | | | | | | | | |
| 1971-72 | | | | 31.1 | 122.6 | 153.7 | 11.5 | 5.7 | 17.2 | 170.9 |
| 1972-73 | | | | 66.6 | 23.9 | 90.6 | 9.5 | 4.6 | 14.1 | 104.7 |
| 1973-74 | | | | 82.9 | 29.5 | (d)112.4 | 12.8 | 3.9 | 16.7 | (d)129.1 |
| 1974-75 | | | | 84.3 | 368.1 | 452.4 | 6.8 | 8.1 | 14.9 | 467.3 |
| 1975-76 | | • | • | 115.0 | 143.0 | 258.0 | 4.9 | 0.5 | 5.4 | 263.4 |
| Finance and | l prop | perty(| b)— | | | | | | | |
| 1971-72 | ٠. ٠ | | | 42.3 | 563.1 | 605.4 | 13.1 | 19.4 | 32.5 | 637.9 |
| 1972-73 | | | | 26.7 | 532.2 | 558.9 | 19.3 | 27.6 | 46.9 | 605.8 |
| 1973-74 | | | | 119.9 | 1,224.8 | (d)1344.7 | 25.0 | 21.0 | 46.0 | (d)1,390.7 |
| 1974-75 | | | | 18.1 | 421.6 | 439.7 | 7.2 | 22.3 | 29.5 | 469.2 |
| 1975–76 | | | | 77.8 | 853.3 | 931.1 | 7.7 | 11.4 | 19.1 | 950.2 |
| Commerce- | _ | | | | | | | | | |
| 1971-72 | | | | 12.3 | 36.3 | 48.6 | 5.6 | 0.3 | 5.9 | 54.5 |
| 1972-73 | | | | 10.5 | 16.6 | 27.0 | 9.0 | 3.1 | 12.1 | 39.2 |
| 1973-74 | | | | 20.6 | 15.0 | (d)35.6 | 5.6 | 6.0 | 11.6 | 47.2 |
| 1974-75 | | | | 36.0 | 89.2 | 125.2 | 2.7 | 2.3 | 5.0 | 130.2 |
| 1975–76 | | | | 39.8 | 21.0 | 60.8 | 2.9 | 1.0 | 3.9 | 64.7 |
| Other indus | tries- | _ | | | | | | | | |
| 1971–72 | | | | 169.3 | | | 35.3 | 6.4 | 41.7 | 213.9 |
| 1972-73 | | | | 99.5 | | | 24.8 | 8.1 | 33.0 | 163.1 |
| 1973-74 | | | | 42.4 | 19.5 | (d)62.0 | 28.7 | 9.9 | 38.6 | (d)100.6 |
| 1974-75 | | | | 32.7 | 69.8 | 102.5 | 27.5 | 7.0 | 34.5 | 137.0 |
| 1975–76 | • | ٠ | • | 91.0 | 77.4 | 168.4 | 28.0 | 1.0 | 29.0 | 197.4 |
| All industri | ies— | | | | | | | | | |
| 1971–72 | | | | 255.0 | | | | 31.9 | 97.5 | 1,077.2 |
| 1972-73 | • . | | | 203.2 | | | | 43.4 | 106.2 | 913.1 |
| 1973-74 | | | | 265.€ | | (d)1,554.5 | | 40.8 | | (d)1,667.2 |
| 1974–75 | | | | 171.1 | | 1,119.7 | | 39.8 | 83.8 | 1,203.5 |
| 1975–76 | | | | 323.6 | 1,094.7 | 1,418.3 | 43.5 | 13.9 | 57.4 | 1,475.7 |

⁽a) Includes preference shares. (b) Excludes deposits accepted by banks, insurance companies, pastoral companies and building societies, and loans to authorised dealers in the short-term money market. (c) Includes only loans which are secured by charges over the companies' entire assets. (d) Prior to July 1973 includes details of companies incorporated in Papua New Guinea.

SHORT-TERM MONEY MARKET

For some years prior to 1959 leading stockbrokers had been actively engaged in the acceptance of short-term funds against the security of government securities, but their operations were limited by the absence of suitable short-term securities and their liquidity requirements. In February 1959 the Commonwealth Bank (now the Reserve Bank) gave official status to the market by announcing that under certain conditions it would act as lender of last resort to authorised dealers in the short-term money market.

The form of organisation consists of nine companies whose functions are:

- (i) to accept loans overnight, at call or for fixed periods, in minimum amounts of \$50,000 and to invest these funds in money market securities.
- (ii) to engage as traders in the buying and selling of money market securities.

The types of securities that may be used as money market securities are subject to the approval of the Reserve Bank. At present they comprise Australian Government securities maturing within five years, commercial bills of any maturity that have been accepted or endorsed by a trading bank, banks' certificates of deposit maturing within five years, and non-bank commercial bills maturing within 180 days.

Dealers are required to have a minimum paid-up capital of \$400,000 and there is a limit on the maximum ratio of loans to shareholders' funds.

Under the lender of last resort arrangements dealers may borrow from the Reserve Bank for a minimum of seven days and at a high rate of interest against the lodgment of Australian Government securities.

SHORT-TERM MONEY MARKET: SELECTED LIABILITIES AND ASSETS AND INTEREST RATES OF AUTHORISED DEALERS

(Source: Reserve Bank of Australia)

| | | | | Holdings | | | Interest during n | Weighted average interest | | | | |
|--------------|---|-------------------------|------------------|----------------|--|--------------------------|---|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|
| | | Liabilities to clients | | | Aust. | | D!. | At call | | For fixed periods | | rate on loans |
| Month | | All trading banks | Other clients | Total | Govt securities (at face value) | Com- mercial bills | Bank's certifi- cates of deposit | Mini- mum per cent | Maxi- mum per cent | Mini- mum per cent | Maxi- mum per cent | out - standing (a) per cent |
| | | Average | of weekly fi | gures—(| \$ million) | | | per annum | per annum | per annum | per annum | per annum |
| June | | | | | | | | | | | | |
| 1972 1973 | • | 249.8 149.6 | 741.5 670.2 | 991.3 819.8 | 975.0 732.2 | 39.8 40.8 | 20.8 79.7 | 2.00 2.00 | 8.25 8.75 | 4.25 2.00 | 6.60 7.00 | 5.18 4.70 |
| 1973 | • | 65.4 | 322.0 | 387.4 | 285.9 | 79.2 | 42.2 | 0.50 | 13.00 | 1.00 | 13.00 | 6.82 |
| 1975 | : | 167.4 | 558.7 | 726.1 | 613.3 | 83.7 | 47.9 | 1.50 | 14.10 | 3.00 | 11.50 | 6.72 |
| 1976 | | n.a. | n.a. | 818.4 | 749.7 | 129.2 | 61.3 | 2.00 | 14.00 | 4.50 | 9.50 | 8.03 |

(a) To June 1975, weighted average of rates on clients' loans outstanding on each Wednesday of the month. Thereafter weighted average of rates paid on all days of the four or five weeks ending on the last Wednesday of the month.

SHORT-TERM MONEY MARKET: AUTHORISED DEALERS' LIABILITIES BY TYPE OF CLIENT(a)

(Source: Reserve Bank of Australia)

(\$ million)

| | | | | | | | | 30 Jun | ne— | | | |
|---------------------|-------|--------|--------|--------|---------|---------|------|--------|---------|-------|-------|-------|
| Client | | | | | | _ | | 1971 | 1972 | 1973 | 1974 | 1975 |
| All trading banks | | | | | | | | 189.2 | 369.3 | 212.9 | 130.4 | 243.5 |
| Savings banks | | | | | | | | 77.7 | 69.0 | 125.5 | 51.6 | 80.5 |
| Insurance offices | | | | | | | | 26.8 | 44.8 | 48.9 | 12.1 | 50.2 |
| Superannuation, p | ensio | n and | i prov | ident | funds | | | 22.4 | 19.3 | 16.1 | 11.8 | 26.8 |
| Hire purchase and | othe | r inst | almen | t cred | lit con | npanie | es . | 6.1 | 11.7 | 7.7 | 1.5 | 14.9 |
| Companies, n.e.i. | | | | | | ٠. | | 155.3 | 253.3 | 209.4 | 63.7 | 180.5 |
| Australian and Sta | te G | overn | ments | | | | | 91.9 | 100.3 | 75.6 | 57.6 | 110.6 |
| Local government | and | i sem | i-gov | ernme | nt au | ithorit | ies, | | | | | |
| n.e.i | | | | | | | • | 70.0 | 99.8 | 91.2 | 72.0 | 115.5 |
| All other lenders(b |). | • | | • | • | • | • | 41.5 | 71.1 | 51.0 | 38.9 | 27.6 |
| Total . | | | | | | | | 680.8 | 1,038.7 | 838.2 | 439.5 | 850.0 |

⁽a) Compiled from returns supplied by authorised dealers in the short-term money market. Liabilities to Reserve Bank as lender of last resort are excluded. (b) Includes marketing boards and trustee companies.

UNIT TRUSTS, LAND TRUSTS AND MUTUAL FUNDS

Statistics of operations of unit trusts, land trusts and mutual funds are shown below. Details of superannuation funds conducted by unit trust management companies are not included in these tables.

TRUSTS AND FUNDS: TOTAL MARKET VALUE AND TRANSACTIONS
(\$ million)

| | | | Total | Cash transact trust units an shares | | Purchases and sales o | | | | |
|-------------------------------|---|---|---------------------------------|---|----------------------|-----------------------|----------------------|--|--|--|
| | | | Total market value at | ket Total Total at amount amount | | | | | | |
| | | | value at end of period(a) | amount received(c) | paid(d) | Purchases (e) | Sales (f) | | | |
| 1970–71 1971–72 | • | ٠ | 278.6 326.9 | 56.5 57.9 | 39.3 33.6 | 74.5 78.3 | 51.5 47.0 | | | |
| 1972-73 1973-74 1974-75 | : | : | 380.3 368.6 356.0 | 79.1 68.8 36.9 | 32.7 38.6 47.8 | 111.5 96.1 38.7 | 71.5 50.6 49.4 | | | |

⁽a) Includes value of land trusts at valuation. (b) Australian Government, local authority and semi-government securities, shares, debentures, unsecured notes, loans, deposits on term or notice of three months or longer, land and buildings, etc. (c) For trust units and fund shares issued. Includes re-issues and new issues. Includes fees and expenses. (d) For trust units and fund shares repurchased. Includes those units and fund shares intended for re-issue. (e) Payments for assets acquired during period. Includes brokerage and stamp duty. (f) Receipts for assets sold or redeemed during period. Excludes brokerage and stamp duty.

TRUSTS AND FUNDS: ANALYSIS OF PURCHASES AND SALES OF INVESTMENTS

(\$ million)

| | _ | Shares (incl. preference shares) | Debentures, unsecured notes, deposits (a) | Land, buildings, mortgages | Other(b) | Total |
|------------|---|---|---|----------------------------------|----------|-------|
| Purchases- | | | | | | |
| 1970-71 | | 39.2 | 10.6 | 24.6 | • • | 74.5 |
| 1971-72 | | 17.2 | 14.3 | 42.9 | 3.9 | 78.3 |
| 1972-73 | | 22.1 | 18.2 | 71.0 | 0.1 | 111.5 |
| 1973-74 | | 12.3 | 9.8 | 73.7 | 0.3 | 96.1 |
| 1974–75 | | 14.8 | 8.6 | 15.2 | 0.1 | 38.7 |
| Sales- | | | | | | |
| 1970-71 | | 35.8 | 8.3 | 5.1 | 2.3 | 51.5 |
| 1971-72 | | 30.9 | 7.9 | 7.6 | 0.5 | 47.0 |
| 1972-73 | | 45.3 | 9.4 | 15.7 | 1.1 | 71.5 |
| 1973-74 | | 22.4 | 10.9 | 17.0 | 0.3 | 50.6 |
| 1974–75 | | 14.2 | 10.6 | 24.4 | 0.1 | 49.3 |

⁽a) Excludes cash on hand and at bank, loans to authorised dealers in the short-term money market, and other deposits under three months' term or notice. (b) Includes Australian Government, local and semi-government securities.

REGISTERED BUILDING SOCIETIES

Permanent and terminating building societies

REGISTERED BUILDING SOCIETIES: SELECTED ITEMS(a) AUSTRALIA

| | | Societies maki | ng returns | | | | Adminis- | |
|---------|--|-----------------|-------------------|-------|-------------------|--------------------|---------------------|--|
| | | Te Permanent | erminating (b) | Total | Share- holders | Loans paid over | trative expenses | |
| | | No. | No. | No. | No. | \$,000 | \$'000 | |
| 1969-70 | | 182 | 4,883 | 5,065 | 669,371 | 444,263 | 21,500 | |
| 1970-71 | | 189 | 5,240 | 5,429 | 862,617 | 453,038 | 27,139 | |
| 1971-72 | | 199 | 5,461 | 5,660 | • | 666,049 | 37,750 | |
| 1972-73 | | 192 | 5,718 | 5,910 | | 1,139,127 | 52,985 | |
| 1973-74 | | 192 | 6,037 | 6,229 | | 990,964 | 82,701 | |

⁽a) At various balance dates within the financial year shown, societies.

REGISTERED BUILDING SOCIETIES: LIABILITIES AND ASSETS(a), AUSTRALIA (\$'000)

| | | Liabilities | | | | | | Assets | | | |
|---|---|---|---|---|---|---|---|---|---|---|--|
| | | Investing members' funds | Borrowing members' funds | Deposits | Loans due to govern- ments | Other liabilities | Total liabilities | Advances on mort- gages(b) | Other assets | Total assets | |
| 1969-70 1970-71 1971-72 1972-73 1973-74 | : | 812,688 1,132,556 1,632,953 2,283,167 2,833,831 | 174,676 165,747 161,225 159,936 152,604 | 156,849 195,776 259,305 393,882 504,130 | 312,909 348,959 400,626 435,546 471,192 | 475,198 457,272 465,537 552,150 559,273 | 1,932,322 2,300,311 2,919,647 3,824,679 4,521,032 | 1,776,761 2,038,305 2,501,118 3,274,450 3,777,948 | 155,561 262,005 418,529 550,229 743,085 | 1,932,322 2,300,311 2,919,647 3,824,679 4,521,032 | |

⁽a) At various balance dates within the financial year shown.

(b) Includes advances on mortgages of terminating societies which are mainly on a gross basis. Net advances may be derived by subtracting 'Borrowing members' funds'.

Permanent building societies

The following statistics summarise information obtained from a monthly collection introduced in May 1969 and relate to the operations of permanent building societies in all States and the Australian Capital Territory and the Northern Territory.

PERMANENT BUILDING SOCIETIES: AUSTRALIA SELECTED TRANSACTIONS AND BALANCES (\$'000)

| | | Loans approved during year(a) | Loans advanced during year(b) | Loans approved but not advanced at end of year(c) | Principal owing on mortgages at end of year | Paid-up share- capital at end of year | Borrowings by societies— amount owing at end of year(d) |
|---------|--|--|--|--|---|---|---|
| 1970-71 | | 428,674 | 368,524 | 100,285 | 1,246,167 | 1,120,187 | 322,767 |
| 1971-72 | | 689,387 | 616,435 | 150,421 | 1,702,617 | 1,624,755 | 414,190 |
| 1972-73 | | 1,181,062 | 1,086,974 | 189,483 | 2,510,342 | 2,254,312 | 638,147 |
| 1973-74 | | 782,305 | 788,089 | 138,142 | 2,920,549 | 2,690,318 | 767,988 |
| 1974-75 | | 736,997 | 599,170 | 223,308 | 3,141,379 | 3,190,604 | 912,282 |

⁽a) Includes loans approved for flats and home units, supplementary loans approved to complete the original purchase or construction of a house, flat or home unit and second mortgage loans approved.

(b) Includes capitalised mortgage insurance premiums and other capitalised charges.

(c) Excludes cancelltions of loan approvals.

(d) Includes deposits with societies, advances under Commonwealth and State Housing Agreements but excludes unsecured borrowings from banks.

⁽b) Co-operative housing and other terminating

FRIENDLY SOCIETIES AND CO-OPERATIVE SOCIETIES

Friendly societies

In 1974 the total membership of friendly societies in Australia was about 436,000, but as certain benefits such as medical attendance and free medicines, and in many cases funeral expenses, are granted to members' families as well as to members themselves, this figure must be more than doubled to arrive at an estimate of the number of persons who receive some direct benefit from these societies, even when due allowances are made for young and unmarried members. Legislation has conferred certain privileges on friendly societies, but, on the other hand, it insists on their registration, and it is the duty of the Registrars in the various States, prior to registering a new society, to see that its proposed rules conform to the law, and that the scale of contribution is sufficient to provide the promised benefits. Societies are obliged to forward to the Registrar annual returns about their membership and their finances, and reports dealing with the returns received are published in most of the States.

FRIENDLY SOCIETIES(a): SUMMARY, 1973-74

| | N.S.W.(b) | Vic. | Qld | S.A. | W.A. | Tas.(c) | Total |
|--------------------------------|-----------|---------|--------|---------|--------|---------|----------|
| Registered societies | . 37 | 104 | 17 | 12 | 11 | 9 | 190 |
| Branches | 1,300 | 1,023 | 360 | 426 | 237 | 59 | 3,405 |
| Benefit members at end of year | . 158,629 | 145,623 | 63,605 | 50,779 | 13,424 | 3,740 | 435,800 |
| Average benefit members during | g | • | • | • | , | , | ,. |
| year | . 155,670 | n.a. | 63,895 | 50,722 | n.a. | n.a. | n.a. |
| Members who received sick pay | . n.a. | n.a. | 4,174 | 5,644 | 1,622 | 543 | n.a. |
| Total weeks sick pay granted | . n.a. | 312,887 | 85,167 | 125,460 | 44,868 | 15,574 | n.a. |
| Average sick weeks per member | . n.a. | n.a. | 20.4 | 22.2 | 27.6 | 28.7 | n.a. |
| Deaths of benefit members. | . n.a. | 2,208 | 1,327 | 925 | 324 | 194 | n.a. |
| Proportion of deaths per 1,000 |) | | | | | | |
| members (average) | . n.a. | n.a. | 20.7 | 18.2 | n.a. | n.a. | n.a. |
| | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$,000 |
| Revenue— | | | | | | | |
| Entrance fees, levies and | | | | | | | |
| members' contributions | . 31,272 | 37,337_ | 7,402 | 15,023 | 5,004 | 56 | 96,094 |
| Interest, dividends and rents | . 2,136 | 4,137 \ | 2,911 | 1,496 | 204 | 98 ጊ | 15,535 |
| All other revenue | . 513 | 528 🐧 | ۲,,,,, | 3,120 | 373 | 19∫ | 15,555 |
| Total revenue | . 33,921 | 42,003 | 10,313 | 19,638 | 5,581 | 172 | 111,629 |
| Expenditure | | | | | | | |
| Šick pay | . 862 | 558 | 109 | 158 | 34 | 24 | 1,744 |
| Medical attendance and medicin | e 24,594 | 30,577 | 7,875 | 4,981 | 4,463 | 1 | 72,491 |
| Sums payable at death . | . 552 | 278 | 243 | 142 | 50 | 42 | 1,308 |
| Administration | 4,593 | 5,038 \ | 1,481 | 2,149 | 354 | 45 \ | 29,939 |
| All other expenditure . | . 1,516 | 3,791 🦍 | 1,4017 | 10,616 | 328 | 26 ∫ | - 49,939 |
| Total expenditure . | . 32,117 | 40,243 | 9,708 | 18,047 | 5,229 | 138 | 105,482 |
| Total funds | . 40,328 | 58,745 | 12,921 | 24,456 | 5,002 | 1,482 | 142,933 |

⁽a) Excludes juvenile branches, dispensaries, medical institutes, and certain miscellaneous societies. Receipts and payments of subsidy under the Commonwealth medical and hospital benefit schemes are excluded. (b) Includes the Australian Capital Territory. (c) Year ended 31 December 1973.

Co-operative societies

Co-operative societies are divided into three classes: (i) those engaged in the manufacture and marketing of primary products and trade requirements; (ii) those engaged in retailing general household requirements; and (iii) those engaged in activities covered by both classes (i) and (ii). The first class may be described briefly as producers' co-operative societies and the second as consumers' co-operative societies. The particulars given for New South Wales relate to societies registered under the Co-operation Act, 1923–1969. A summary of the business of all co-operative societies for the year 1973–74 for all States is given in the following table.

CO-OPERATIVE SOCIETIES: 1973-74

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|--------------------------------------|----------|----------------|------------------|-----------------|------------------|--------------|--------------------|
| Societies . No. | 306 | 149 | 222 | 68 | 65 | 15 | 825 |
| Members . No. | 454,527 | 169,505 | 160,946 | 122,562 | 68,604 | 7,186 | 983,330 |
| | \$,000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$,000 |
| Income— | | | | | | • | |
| Gross turnover (sales). | 520,915 | 261,439 | 257,637 | 95,480 | 133,714 | 10,638 | 1,279,823 |
| Other income | 5,917 | 5,699 | 18,947 | 7,029 | 43,651 | 488 | 81,731 |
| Total income . | 526,832 | 267,138 | 276,584 | 102,509 | 177,365 | 11,126 | 1,361,554 |
| Expenditure— | | | | | | | |
| | | 194,651 | 205,881 | 63,716 | 118,090 | 9 229) | |
| Other expenditure . | 516,678 | 64,215 | 62,186 | 39,394 | 50,252 | 1,641 | -1,325,933 |
| Total expenditure . | 516,678 | 258,866 | 268,067 | 103,110 | 168,342 | 10,870 | 1,325,933 |
| Rebates and bonuses . | 5,339 | 2,091 | 4,807 | 2,764 | 3,580 | 64 | 18,645 |
| Dividends on share capital | 2,306 | 2,794 | 2,075 | 605 | 1,883 | 71 | 9,734 |
| Liabilities— | | | | | | | |
| Paid-up capital | 47,277 | 34,912 | 22 (27 | 0.636 | 15.014 | 1 425 | 141 701 |
| Bank overdrafts | 65,378 | 30,983 | 32,637 18,393 | 9,636 12,336 | 15,814 11.487 | 1,425 544 | 141,701 139,121 |
| Accumulated profits .) | | 4,281 | 15,805 | 760 | - 363 | 512 \ | , |
| Reserve funds | 29,149 | 32,596 | 43,209 | 11.206 | 18,358 | 966 | > 156,479 |
| Loan capital | } | 23,959 | 20,382 | 21,195 | 110,914 | 9561 | |
| Sundry creditors | 104,536 | 42,011 | 34,869 | 8,063 | 17,586 | 1,467 | 439,233 |
| Other liabilities | 101,,220 | 12,585 | 17,323 | 16,265 | 6,790 | 333 | 137,233 |
| Total liabilities . | 246,340 | 181,326 | 182,618 | 79,461 | 180,586 | 6,203 | 876,534 |
| A | | | | | | | |
| Assets— Land and buildings .) | c | 44,416 | C | 15,151 | 10,217 | 1,476 | |
| Machinery, plant and | 82,172 | 77,710 | 90.554 | 15,151 | 10,21, | 1,110 | > 377,377 |
| other fixed assets | 02,172 | 36,932 | ,0,55. | 13,455 | 82,253 | 751 | |
| Stocks | 93,714 | 27,367 | 16,675 | 27,544 | 9,433 | 922 | 175,655 |
| Sundry debtors | 50,899 | 58,141 | 56,004 | 14,090 | 44,491 | 1,559 | 225,184 |
| Cash in hand and on | | 4.704 | 2 254 | 697 | 22,734 | 24 | |
| deposit | 19,555 | 4,704 1,449 | 3,254 875 | 459 T | | 4 | 98,320 |
| Profit and loss account Other assets | | 8,318 | 15,256 | 8,066 | 11,458 | 1,471 | 70,320 |
| | | | 100 (15 | =0.460 | 100 506 | (202 | 057.53 |
| Total assets | 246,340 | 181,327 | 182,618 | 79,462 | 180,586 | 6,203 | 876,536 |
| | | | | | | | |

LOTTERIES 553

LOTTERIES AND BETTING

Lotteries

The State Governments of New South Wales, Queensland, South Australia and Western Australia operate lotteries in their own States. Tattersall Sweep Consultations are operated under government licence in Victoria and also sell tickets under government licence in Tasmania and New Zealand. Tickets for any of these lotteries may also be sold in the Northern Territory and the Australian Capital Territory. The statistics of sales of tickets and prizes include the sales and allotments of prizes in New Zealand, Tasmania, the Northern Territory and the Australian Capital Territory. In general, revenue derived by the State Governments from these lotteries is used directly or indirectly to provide funds for expenditure on hospitals, charities, etc.

LOTTERIES: VALUE OF TICKET SALES, PRIZES ALLOTTED, TAXES PAID AND OTHER NET CONTRIBUTIONS TO STATE GOVERNMENT REVENUES (\$'000)

| Year | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Total |
|--------------------|---|-------|---|------------------|------------------|------------------|------------------------|----------------|--------------------|
| | | | | 7 | TICKET S | ALES | | | _ |
| 1970-71 | | | | 58,057 | 21,360 | 18,560 | 6,000 | 6,250 | 110,227 |
| 1971-72 1972-73 | | • | • | 62,389 64,563 | 21,388 30,145 | 20,510 20,420 | 6 ,200 6,746 | 7,400 8,149 | 117,887 130,023 |
| 1973-74 | | • | • | 69,395 | 50,824 | 21,590 | 8,023 | 9,899 | 159,731 |
| 197475 | | : | • | 82,680 | 92,128 | 30,720 | 11,975 | 14,100 | 231,603 |
| | | | | PR | IZES ALI | OTTED | | | |
| 1970-71 | | | | 35,815 | 12,816 | 11,851 | 3,648 | 3,803 | 67,932 |
| 1971-72 | | | | 38,284 | 12,833 | 13,122 | 3,775 | 4,506 | 72,519 |
| 1972-73 | | | • | 39,485 | 18,087 | 13,070 | 4,125 | 4,958 | 79,725 |
| 1973–74 1974–75 | | | : | 42,318 53,193 | 31,310 54,150 | 13,828 19,539 | 4,906 7,280 | 6,008 8,672 | 98,370 142,834 |
| | 7 | TAXES | | ID AND (| | | | ONS TO | |
| 1070 71 | _ | | | 12 127 | 6 622 | 4.402 | 1 022 | 1.504 | 27.667 |
| 1970-71 1971-72 | | • | • | 13,127 13,655 | 6,622 6,630 | 4,492 4,910 | 1,833 1,979 | 1,594 1,935 | 27,667 29,109 |
| 1972-73 | - | • | • | 13,033 | 9,345 | 4,826 | 1,894 | 2.137 | 32,125 |
| 1973-74 | | : | • | 14,506 | 16,177 | 5,027 | 2,351 | 2,648 | 40,709 |
| 1974-75 | | | | 18,729 | 16,787 | 7,222 | 3,648 | 3,710 | 50,096 |
| | | | | • | • | • | | -, | • |

⁽a) Includes grants to Tasmanian and New Zealand governments by Tattersall Sweep Consultations, Victoria.

Betting

TOTALISATOR INVESTMENTS AND INVESTMENTS WITH LICENSED BOOKMAKERS
STATES AND AUSTRALIAN CAPITAL TERRITORY
(\$'000)

| | | <u> </u> | | | , 000) | | | | |
|---|---|---|---|---|---|--|--|---|---|
| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Total |
| | | | тот | ΓALISATO | R INVEST | MENTS | | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | • | 334,814 394,620 450,268 529,021 678,820 | 273,638 329,142 377,825 424,951 534,393 | 94,534 115,312 140,184 165,189 201,275 | 38,403 47,281 57,768 70,019 91,820 | 67,652 82,543 92,375 115,351 140,046 | 1,322 1,453 1,493 1,651 11,378 | 8,808 10,723 13,699 18,113 24,419 | 819,172 981,074 1,133,612 1,324,295 1,682,151 |
| | | INV | ESTMENT | s with L | ICENSED | воокма | KERS(a) | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | : | 314,658 345,770 377,222 440,247 549,941 | 196,166 217,898 228,756 263,170 338,977 | 147,931 158,652 181,858 215,077 229,795 | 60,728 73,544 82,746 98,405 124,384 | 39,778 41,840 44,282 54,008 60,082 | 48,825 52,871 58,220 62,008 60,650 | 5,232 6,805 8,093 11,171 15,873 | 813,318 897,381 981,177 1,144,086 1,379,703 |

⁽a) Estimated from taxes on betting with licensed bookmakers in all States except Australian Capital Territory.

PROBATES AND LETTERS OF ADMINISTRATION

The following table gives some particulars of the number and value of estates of deceased persons in each State for the latest year for which information is available. Owing to differences in legislation in the various States the figures are not entirely comparable.

PROBATES AND LETTERS OF ADMINISTRATION: STATES

| | | N.S.W. 1974–75(a) | Vic. 1974 | Qld 1974-75 | S.A. 1974 | W.A. 1974-75 | Tas. 1974(b) |
|--------------|----------|----------------------|--------------|----------------|--------------|-----------------|-----------------|
| Estates . | . No. | 34.032 | 22,362 | 10.764 | 5,306 | 5,633 | 2,010 |
| Gross value. | . \$'000 | n.a. | 534,811 | 274,793 | 113,364 | 124,660 | 44,384 |
| Net value . | . \$'000 | 839,150 | 465,812 | 260,859 | 106,164 | 115,320 | 37,257 |

⁽a) Total estates of deceased persons assessed for death duty.

⁽b) Estates dealt with by the Taxalion Department.

AUSTRALIAN INDUSTRY DEVELOPMENT CORPORATION

The Australian Industry Development Corporation was established by the Australian Industry Development Corporation Act 1970 and commenced operations on 1 February 1971. Within the objectives and broad policy guidelines defined in the Act the Corporation operates as an independent commercial enterprise governed by its own Board of Directors.

The Corporation has a capital of \$100 million, to be subscribed by the Commonwealth Government in instalments but the whole being available if required to meet obligations. The paid-up capital at 30 June 1975 was \$50 million.

The central objectives of the Corporation are to promote the development of industries in Australia and support local participation in the ownership and control of industries and resources. Consistent with these objectives and the principle that A.I.D.C. must operate on a commercial basis and assist only in ventures which can demonstrate sound prospects, the Corporation provides finance, obtained by borrowing both in Australia and overseas, for Australian firms (including local firms with foreign partners) engaged in industries concerned with the manufacture, processing, treatment, transportation or distribution of goods, or the development or use of natural resources (including the recovery of minerals) or technology and activities that are connected with or incidental to those industries.

The Corporation's financial participation in a venture is governed by the prevailing terms and conditions under which it can itself obtain loan finance. The capital of the Corporation is provided as a base for its borrowings and is not directly used for assistance to industry projects.

A.I.D.C. provides development capital both for start-up situations and for going concerns. Although the greater part of its financings are loans, it also makes equity investments in industry. Where a company's capital needs can best be met by loan finance, A.I.D.C. does not seek an equity position. It aims to avoid involvement in the management of companies to which it provides financing.

Project investments approved since operations commenced totalled \$265 million at 30 June 1975, and financings outstanding in 44 projects was \$148 million.



CHAPTER 18

PUBLIC FINANCE

This chapter deals with the financial activities of the organisations which make up the three levels of government in the Australian political system—Federal, State and Local—and which collectively constitute the public sector. The chapter is organised into seven main groupings of topics. An account is given of the activities of each level of government, with particular emphasis being given to Federal authorities. Tables are then presented which bring together the transactions of all public authorities to highlight the role of the public sector as a whole in the Australian economy. Then follows a section on government borrowing activities at all levels; and a section which looks at some major groups of State authorities that have been created to provide specific services, such as roads, water supply, etc.

For further detailed information on the subjects covered by this chapter see the annual bulletins published by the ABS: Australian National Accounts—National Income and Expenditure (7.1); Public Authority Finance—Federal Authorities (5.12); Public Authority Finance—State and Local Authorities (5.43); Public Authority Finance—Taxation (5.30) and Public Authority Finance—Estimates (5.55). Current information in summarised form is given in Quarterly Estimates of National Income and Expenditure (7.5), and is also contained in the Monthly Review of Business Statistics (1.4), and the Monthly Digest of Current Economic Statistics (1.5).

Additional details of the transactions of public authorities engaged in particular fields of activity, such as defence, transport and communication, health and welfare, education, etc., may be found in other chapters of this Year Book.

COMMONWEALTH GOVERNMENT FINANCE

Financial provisions of the Constitution

The main provisions of the Constitution relating to the initiation and development of the financial system of the Commonwealth of Australia are contained in Sections 81 to 105A of the Commonwealth Constitution (see pages 16–19 of this Year Book). Two other sections which have a most important bearing on questions of Commonwealth finance are Sections 69 and 51.

Section 69 provides for the transfer from the States to the Commonwealth of certain specified departments, and Section 51, in outlining the powers of the Commonwealth Parliament, implies the transfer or creation of other departments. Sections 87 and 96 deal with the financial relations between the Commonwealth and the States. The full text of the Financial Agreement of 1927 was given in Year Book No. 31, page 21; accounts of this Agreement as affected by subsequent Agreements were included in later issues of the Year Book up to No. 37 (see pages 685–90); details of the main provisions appeared in further issues of the Year Book up to No. 50 (see pages 952-3). Details of current provisions for financial assistance to the States are given on pages 571 to 577.

The Audit Act 1901 lays down the procedure which must be followed in accounting for the receipt and disbursement of public funds. The general administration of Commonwealth Government finances is the responsibility of the Commonwealth Government Treasurer.

Commonwealth Government Budget

The Commonwealth Government Budget records the transactions of those authorities of the Commonwealth Government whose receipts and payments are summarised in the statements of Treasury balances. In 1974–75 the change in cash balances was represented by the following—

| | | - | | | | | - | | | | _ | | \$'000 |
|------------------|-------|---------|---------|-------|--------|-------|-------|--------|--------|-------|--------|-----|------------|
| Cash receipts of | the C | Consoli | dated 1 | Rever | ue Fi | ınd | | | | | | | |
| plus cash receip | ots o | f Loan | Fund | | | | | | | | | | 3,445,952 |
| plus cash receip | ots o | f Trust | Fund | | | • | | | • | • | • | | 6,822,485 |
| Total . | | | | | | | | | | | | | 25,659,556 |
| less cash payme | ents | from C | Consoli | dated | Reve | nue F | und | | | | | | 15,391,119 |
| less cash paym | | | | | | | | | | | | | 3,445,952 |
| less cash paym | ents | from | Trust 1 | Fund | (inclu | uding | incre | ase in | ı inve | stmer | its of | the | |
| Trust Fund) | | | | | | | | | | | | | 7,482,441 |
| Total . | | | • | • | | | | | | | • | | 26,319,512 |
| equals decrease | in c | ash bal | lances | | | | | | | | | | 659,956 |

Revenues from taxation and other sources are paid into the Consolidated Revenue Fund, from which the main expenditures are for defence, social services, payments to the States and general administration. The Trust Fund covers special transactions outside the ordinary operations of departmental expenditures, such as pension funds and moneys held for expenditure by the Commonwealth Government at some future time. The Loan Fund receives its funds from the sale of Commonwealth Government securities, and the expenditures from the Fund are made in accordance with the purpose of issue of each loan. The main disbursements from the Loan Fund are to the States by way of distribution of the proceeds of loans raised by the Commonwealth Government on their behalf and capital assistance grants, the remaining disbursements being mainly for Commonwealth Government purposes.

The receipts and outlay of the Budget for 1975-76 are set out in the table which follows, together with figures for the years 1971-72 to 1974-75. The national accounting presentation of the budget is shown in order to be consistent with other transactions figures given in this chapter.

It should be noted that some transactions undertaken by authorities covered by the Budget are not reflected in the change in cash balances, usually because they are not cash transactions or because a receipt and a payment are offset against each other so that only a net amount is included in published totals. The national accounting presentation of the Budget includes these additional transactions, further details of which may be found in the Appendix to the Supplement to the Treasury Information Bulletin, September 1974.

RECEIPTS AND OUTLAY OF THE COMMONWEALTH BUDGET (\$ million)

(Source: Supplement to the Treasury Information Bulletin, August 1975)

| Capital(a) . 221 234 275 410 56 Total . . 2,369 2,571 2,972 3,886 4,79 Transfer payments— | | | | | | | | 1971-72 | 1972–73 | 1973-74 | 1974–75 | 1975–76 Budget Estimate |
|--|-------------------|---------|---------|-------|------|--------|-----|---------|---------|---------|---------|---|
| Current . . 2,148 2,337 2,697 3,476 4,23 Capital(a) . . 221 234 275 410 56 Total . . . 2,369 2,571 2,972 3,886 4,79 Transfer payments— | | | | | | | | | | | | |
| Capital(a) . 221 234 275 410 56 Total . . 2,369 2,571 2,972 3,886 4,79 Transfer payments— | Net expenditure o | n good | ds and | i ser | vice | S | | | | | | |
| Total | Current | | | | | | | | | 2,697 | 3,476 | 4,230 |
| Transfer payments— | Capital(a) . | • | • | | • | • | • | 221 | 234 | 275 | 410 | 567 |
| Cash benefits to persons | Total | | • | | • | • | •_ | 2,369 | 2,571 | 2,972 | 3,886 | 4,796 |
| Grants to States and local government authorities | | | | | | | | | | | | |
| authorities . 2,396 2,784 3,438 5,184 7,05 Interest paid . . . 616 674 714 887 1,01 Transfers overseas 205 251 289 350 39 Subsidies .< | | | | | • | • | • | 2,040 | 2,530 | 3,078 | 4,321 | 5,700 |
| Interest paid | | ites a | nd lo | ocal | go | vernm | ent | | | | | |
| Transfers overseas | authorities . | | | | | | | | | | | 7,057 |
| Subsidies. 384 323 290 240 25 Grants for private capital purposes 40 54 62 102 17 Unfunded employee retirement benefits 1 65 88 8 Purchases of existing assets 28 17 30 125 3 Total 5,710 6,633 7,965 11,296 14,69 Total expenditure 8,079 9,204 10,938 15,182 19,49 Net advances— 590 668 748 1,225 1,41 Federal authorities 352 325 448 1,067 77 Other sectors 972 988 1,293 2,648 2,42 Total outlay < | Interest paid . | | | | | | | 616 | 674 | 714 | 887 | 1,011 |
| Grants for private capital purposes | Transfers overse | eas . | | | | | | 205 | 251 | 289 | 350 | 393 |
| Unfunded employee retirement benefits Purchases of existing assets | Subsidies | | | | | | | 384 | 323 | 290 | 240 | 251 |
| Unfunded employee retirement benefits Purchases of existing assets | Grants for priva | ate cap | oital p | urpe | oses | | | 40 | 54 | 62 | 102 | 173 |
| Purchases of existing assets | | | | | | | - | | 1 | 65 | 88 | 82 |
| Total expenditure | | | | | | • | • | | 17 | 30 | | 30 |
| Total expenditure | Total | | | | | | | 5,710 | 6,633 | 7,965 | 11,296 | 14,697 |
| States . . 590 668 748 1,225 1,41 Federal authorities . . 352 325 448 1,067 77 Other sectors . . (b)29 (b) -4 97 357 23 Total . . . 972 988 1,293 2,648 2,42 Total outlay . . 9,050 10,192 12,230 17,831 21,91 Receipts— Taxation— Indirect taxes . 2,499 2,595 3,184 3,792 4,88 Income tax on companies . 1,535 1,634 2,033 2,447 2,25 | | iture . | | | | • | | • | • | • | - | 19,493 |
| States . . 590 668 748 1,225 1,41 Federal authorities . . 352 325 448 1,067 77 Other sectors . . (b)29 (b) -4 97 357 23 Total . . . 972 988 1,293 2,648 2,42 Total outlay . . 9,050 10,192 12,230 17,831 21,91 Receipts— Taxation— Indirect taxes . 2,499 2,595 3,184 3,792 4,88 Income tax on companies . 1,535 1,634 2,033 2,447 2,25 | Net advances— | | | | | | - | | | | | • |
| Federal authorities | | | | | | | | 590 | 668 | 748 | 1 225 | 1 413 |
| Other sectors | | | • | | • | • | • | | | | • | |
| Total | | ties . | | | • | • | • | | | | | |
| Total outlay | Other sectors . | • | • | | • | • | ٠_ | (0)29 | (0)-4 | 91 | 331 | 234 |
| Receipts— Taxation— Indirect taxes 2,499 2,595 3,184 3,792 4,88 Income tax on companies 1,535 1,634 2,033 2,447 2,25 | Total | • | | | | | | 972 | 988 | 1,293 | 2,648 | 2,422 |
| Taxation— Indirect taxes 2,499 2,595 3,184 3,792 4,88 Income tax on companies 1,535 1,634 2,033 2,447 2,25 | Total outlay. | • | • | | • | • | • | 9,050 | 10,192 | 12,230 | 17,831 | 21,915 |
| Indirect taxes | Receipts- | | | | | | | | | | | |
| Income tax on companies 1,535 1,634 2,033 2,447 2,25 | | | | | | | | | | | | |
| Income tax on companies 1,535 1,634 2,033 2,447 2,25 | Indirect taxes . | _ | _ | | | _ | _ | 2,499 | 2,595 | 3,184 | 3,792 | 4,888 |
| | | | nies . | | | - | | 1.535 | | | | 2,250 |
| | | | | | | | - | 3,769 | 4,090 | 5,490 | 7,714 | 10,340 |
| | | | | | | - | | | | | | 92 |
| | | | e fine | e. ef | c. | | - | | | 68 | 23 | 10 |
| O MICH CHICAGO (MICH) | | | | | | ributi | ດກຣ | | | | | 35 |
| | | | | · · | | | • | | - | | | 7 |
| Total | Total | • | | | | | | 7,934 | 8,453 | 10,873 | 14,084 | 17,608 |
| Other receipts— | Other receipts— | | | | | | | | | | | |
| | | d divid | dends | | | | | 885 | 951 | 1,031 | 1,174 | 1,482 |
| | | | | | | | | 56 | | | | 2 |
| | | | | c) | • | • | • | 41 | | 22 | 18 | 26 |
| Total | Total | | | | | | | 982 | 1,030 | 1,065 | 1,180 | 1,509 |
| Total receipts 8,916 9,483 11,938 15,264 19,11 | Total receipts | | | | | | | 8,916 | 9,483 | 11,938 | 15,264 | 19,11 7 |
| | | | | | | | | 134 | 709 | 293 | 2,567 | 2,798 |

⁽a) Expenditure on new fixed assets plus increase in stocks less sales of previously rented houses. (b) Includes net advances to the Australian Wheat Board which in the past has been treated as financing transactions and thus formed part of the deficit. (c) Excludes sales of previously rented houses.

Financing of the Commonwealth Government deficit

The deficit shown in the last line of the preceding table represents the net excess of Budget outlay over receipts. In other words, the estimated deficit shown for 1975-76 represents the Commonwealth Government budget sector's 'financing requirements'. Most such transactions involve the issue, repurchase, redemption or acquisition of Commonwealth Government securities, but some involve or are represented by changes in other assets or liabilities of the Commonwealth Government.

Specifically the deficit is financed as follows.

Net sales of Commonwealth Government securities (new issues, *less* redemptions, *less* net purchases from Commonwealth Government balances in the Trust Fund);

less net purchases of other investments from Commonwealth Government balances in the Trust Fund

plus minor items of indebtedness (such as borrowing by Australian Capital Territory and Northern Territory housing trust accounts)

less net additions to cash balances, and funds provided for the International Monetary Fund and the Australian Wheat Board.

The following table summarises the financing transactions of the Commonwealth Government budget sector for recent years. Further details of Commonwealth Government loan transactions and of government securities on issue on account of the Commonwealth Government and the States are given in a later section of this chapter.

COMMONWEALTH BUDGET FINANCING TRANSACTIONS (\$ million)

(Source: Statement No. 6 attached to the Budget Speech, 1975-76)

| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--|---------|---------|-------------|---------------|------------|
| Overseas- | | • | | | |
| Credit arrangements for defence purchases in | | | _ | | |
| the United States of America | 64 | 46 | 51 | | |
| Less—repayments | 57 | 63 | 59 | 54 | 45 |
| Net drawings | 7 | -16 | 8 | <i>-</i> - 54 | -45 |
| Aircraft loans for Qantas and Australian | | | | | |
| National Airlines Commission | 47 | 85 | 31 | 16 | 59 |
| Less—repayments | 28 | 33 | 38 | 27 | 25 |
| Net drawings | 20 | 52 | -7 | -10 | 34 |
| Other overseas loan proceeds | 15 | 26 | 28 | | 107 |
| Less—redemptions, etc | 87 | 109 | 78 | 66 | 95 |
| Net proceeds | -72 | -83 | -50 | -66 | 12 |
| Total net proceeds overseas | -46 | -47 | -66 | -130 | 2 |
| Funds provided for International Monetary Fund | -37 | | | | • • |
| Australia— | | | | | |
| Proceeds of loans raised in Australia | 770 | 917 | 971 | 1,651 | 929 |
| Less—redemptions, etc | 566 | 197 | 232 | 837 | 640 |
| Net proceeds of loans raised in Australia. | 205 | 720 | 739 | 814 | 289 |
| Net change in Treasury Notes on issue. | 18 | -10 | 165 | -38 | 1,689 |
| Total net proceeds Australia | 222 | 711 | 904 | 776 | 1,978 |
| Other financing transactions Residual Financing— | 27 | 38 | 46 | 127 | -73 |
| Net increase in Treasury Bills on issue . | | | | | |
| Use of cash balances | -157 | -567 | -175 | -480 | 660 |
| Total residual financing | -157 | -567 | —175 | -480 | 660 |
| Total Australian financing transactions . | . 92 | 181 | 775 | 423 | 2,565 |
| Total financing transactions | 10 | 134 | 709 | 293 | 2,567 |

FEDERAL AUTHORITIES

In addition to the group of authorites of the Commonwealth Government whose transactions are covered by the Budget (i.e. itemised in the Consolidated Revenue Fund, the Loan Fund, or recorded in a Trust Fund), there are a number of organisations owned or controlled by the Commonwealth Government whose transactions do not, for the most part, pass through the Public Account. This category consists largely of public enterprises such as the Australian Postal Commission, Australian Telecommunications Commission, Overseas Telecommunications Commission, Qantas, Trans-Australia Airlines, the Australian Coastal Shipping Commission, the Snowy Mountains Hydroelectric Authority, the Reserve Bank and the Commonwealth Banking Corporation. Public enter-

prises, it should be noted, are bodies which aim at covering the bulk of their expenses by revenue either from sales of goods and services (trading enterprises), or by charges for services and net interest receipts (financial enterprises). As well as these enterprises, there are other public authorities which record most of their transactions outside the Public Account but have only minor independent sources of revenue, and are financed almost entirely from funds voted to them each year from the Consolidated Revenue Fund. In order that the national accounting presentation may indicate as completely as possible the direct effect of the budget on demand, appropriations to this last group of authorities are treated as final expenditure in the Budget. Authorities in this category include the Australian Broadcasting Commission, Australian National University, National Capital Development Commission, and the Australian Atomic Energy Commission.

The transactions of Commonwealth Government bodies not covered by the Budget may be brought together and consolidated with the transactions recorded in the Budget to yield figures of the transactions of all Federal authorities. The remaining tables in this section have been prepared on that basis.

Public financial enterprises have been omitted from the consolidated accounts presented here largely on the ground that combining the income and outlay and capital financing transactions of the Reserve Bank, the publicly owned trading and savings banks, government insurance offices and other public financial institutions with the equivalent transactions of public trading enterprises and general government seems to provide a less meaningful account of public sector activity. For example, omission of the borrowing and lending activities of the government banks and the Reserve Bank allows attention to be centred on the borrowing and lending activities of general government and public trading enterprises, which are quite different in nature and economic effect from the financing activities of the banking system. However, the expenditure on new fixed assets of public financial enterprises is shown in the table on page 567 to provide a measure of the gross fixed capital formation of all publicly owned and/or controlled organisations.

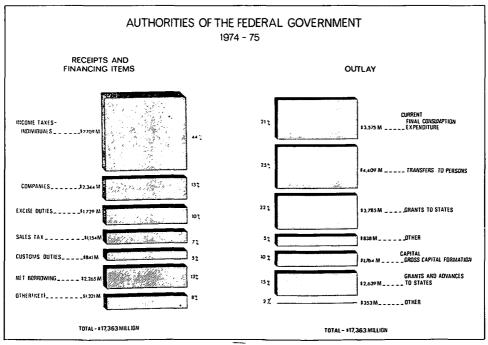


PLATE 42

Summary of receipts and outlay

The receipts and outlay of all federal authorities for the latest five-year period are given in the following table.

FEDERAL AUTHORITIES(a): RECEIPTS AND OUTLAY (\$ million)

| | | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|--|---------------|---------------------------------------|------------------|---|--|---|--|---|
| | | | | 1970-/1 | 17/1-/2 | 19/2-/3 | 15/3-/4 | |
| | _ | | REC | CEIPTS | | | | |
| Current receipts— | | | | | | | | |
| Taxes, fees, fines, etc | | | | 7,182 | 7,938 | 8,470 | 10,917 | 14,212 |
| Income from public enterprises | s . | | • | 232 | 306 | 308 | 285 | 24 |
| Interest, etc., received | • | • | • | 61 | 62 | 77 | 87 | 87 |
| Total current receipts . | | | • | 7,475 | 8,307 | 8,855 | 11,289 | 14,548 |
| Capital receipts— | | | | | | | | |
| Depreciation allowances . | | | • | 192 | 207 | 230 | 255 | 27 |
| Net sale of securities— | | | | | | | | |
| Treasury bills and notes . | • | . • | • | 18 | -10 | 165 | -38 | 1,689 |
| Commonwealth government | | ties | • | 260 | 617 | 666 | 801 | 554 |
| Public corporation securities | | • | • | 1 | 1 | 27 | 26 | 2: |
| Net receipts of private trust fu | | | | 82 | 102 | 116 | -90 | 8- |
| Reduction in securities holding | gs . | | | -166 | -31 | -89 | -72 | -51 |
| Other funds available (included omissions) | aing ei | rrors | and . | 16 | 20 | 37 | 264 | 120 |
| Total capital receipts . | | | | 402 | 905 | 1,151 | 1,147 | 2,23 |
| • | • | • | • | | | | • | 580 |
| Reduction in cash and bank bala | inces | • | • | - 106 | 583 | -265 | 527 | |
| | | | | | | | | |
| Total receipts | • | | • | 7,772 | 8,630 | 9,741 | 11,909 | 17,36 |
| Total receipts | • | • | OUT | | 8,630 | 9,741 | 11,909 | 17,36 |
| Total receipts Current outlay— | • | • | OUT | | 8,630 | 9,741 | | |
| | · • . | • | OUT | | 2,175 | 2,373 | 2,743 | |
| Current outlay— | e . | • | OUT | LAY | | | | 3,57 |
| Current outlay— Final consumption expenditure | e . | · | OUT | 1,971 13 | 2,175 -14 | 2,373 | 2,743 | 3,57, 10 |
| Current outlay— Final consumption expenditure Interest, etc., paid | e . | · · · · | OUT | 1,971 13 1,759 | 2,175 -14 2,041 | 2,373 15 2,533 | 2,743 | 3,57: 10: 4,40: |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons | e . | | OUT | 1,971 13 1,759 260 | 2,175 -14 2,041 377 | 2,373 15 2,533 323 | 2,743 6 3,142 | 3,57: 10: 4,40: 284 |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas | • | | OUT | 1,971 13 1,759 260 184 | 2,175 -14 2,041 | 2,373 15 2,533 | 2,743 6 3,142 300 | 3,57, 10, 4,40, 28, 34, |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp | ooses | · | · · · · | 1,971 13 1,759 260 | 2,175 -14 2,041 377 205 | 2,373 15 2,533 323 252 | 2,743 6 3,142 300 288 | 3,57: 10: 4,40: 28: 34: |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas | ooses | · | · · · · | 1,971 13 1,759 260 184 | 2,175 -14 2,041 377 205 | 2,373 15 2,533 323 252 | 2,743 6 3,142 300 288 | 3,57 10: 4,40: 28: 34: 9: |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc | ooses | · · · · · · · · · · · · · · · · · · · | · · · · | 1,971 13 1,759 260 184 35 | 2,175 14 2,041 377 205 40 | 2,373 15 2,533 323 252 54 | 2,743 6 3,142 300 288 63 | 3,57; 100 4,400 284 344 97 3,785 |
| Current outlay— Final consumption expenditure Interest, etc., paid | ooses go | · · · · · · · · · · · · · · · · · · · | · · · · | 1,971 13 1,759 260 184 35 1,672 | 2,175 -14 2,041 377 205 40 1,769 | 2,373 15 2,533 323 252 54 2,077 | 2,743 6 3,142 300 288 63 2,538 | 3,57 10 4,40 28 34 9 3,785 |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset | ooses go | · · · · · · · · · · · · · · · · · · · | · · · · | 1,971 13 1,759 260 184 35 1,672 | 2,175 -14 2,041 377 205 40 1,769 | 2,373 15 2,533 323 252 54 2,077 | 2,743 6 3,142 300 288 63 2,538 | 3,57: 100 4,400 28: 34: 9' 3,785 |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset | ooses go | · · · · · · · · · · · · · · · · · · · | · · · · | 1,971 13 1,759 260 184 35 1,672 5,894 | 2,175 -14 2,041 377 205 40 1,769 6,595 | 2,373 15 2,533 323 252 54 2,077 7,626 | 2,743 6 3,142 300 288 63 2,538 9,081 | 3,57: 10:0 4,40: 28: 34: 9' 3,78: 12,608 |
| Current outlay— Final consumption expenditure Interest, etc., paid | ooses go | | · · · · | 1,971 13 1,759 260 184 35 1,672 5,894 | 2,175 -14 2,041 377 205 40 1,769 6,595 | 2,373 15 2,533 323 252 54 2,077 7,626 | 2,743 6 3,142 300 288 63 2,538 9,081 | 3,57: 100 4,40: 28: 344: 9: 3,78: 12,608 |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset Expenditure on existing assets Increase in stocks | cooses cal go | · | | 1,971 13 1,759 260 184 35 1,672 5,894 694 -9 | 2,175 -14 2,041 377 205 40 1,769 6,595 | 2,373 15 2,533 323 252 54 2,077 7,626 | 2,743 6 3,142 300 288 63 2,538 9,081 | 3,57: 10:4,40:28:34: 34:99:37:37:31:31:31:31:31:31:31:31:31:31:31:31:31: |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset Expenditure on existing assets | cooses cal go | · | | 1,971 13 1,759 260 184 35 1,672 5,894 694 -9 | 2,175 -14 2,041 377 205 40 1,769 6,595 | 2,373 15 2,533 323 252 54 2,077 7,626 | 2,743 6 3,142 300 288 63 2,538 9,081 | 3,57: 100 4,40: 28: 344: 9: 3,78: 12,608 |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset Expenditure on existing assets Increase in stocks Grants to States and loc authorities | cal go | vernn | nent | 1,971 13 1,759 260 184 35 1,672 5,894 694 -9 52 | 2,175 -14 2,041 377 205 40 1,769 6,595 | 2,373 15 2,533 323 252 54 2,077 7,626 808 -18 -45 | 2,743 6 3,142 300 288 63 2,538 9,081 1,000 18 38 | 3,57: 100 4,400 284: 34: 9° 3,785 12,608 |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset Expenditure on existing assets Increase in stocks Grants to States and loc | cal go | vernn | nent | 1,971 13 1,759 260 184 35 1,672 5,894 694 -9 52 555 | 2,175 -14 2,041 377 205 40 1,769 6,595 | 2,373 15 2,533 323 252 54 2,077 7,626 808 -18 -45 | 2,743 6 3,142 300 288 63 2,538 9,081 1,000 18 38 | 3,57: 100 4,400 284: 34: 9° 3,785 12,608 |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset Expenditure on existing assets Increase in stocks Grants to States and loc authorities Advances to States and lo | cal go | vernn | nent | 1,971 13 1,759 260 184 35 1,672 5,894 694 -9 52 | 2,175 -14 2,041 377 205 40 1,769 6,595 838 -5 -25 | 2,373 15 2,533 323 252 54 2,077 7,626 808 -18 -45 | 2,743 6 3,142 300 288 63 2,538 9,081 1,000 18 38 | 3,57: 10i 4,40i 28i 34i 9' 3,785 12,608 1,35: 11' 31' |
| Current outlay— Final consumption expenditure Interest, etc., paid Transfers to persons Subsidies Transfers overseas Grants for private capital purp Grants to States and loc authorities Total current outlay Capital outlay— Expenditure on new fixed asset Expenditure on existing assets Increase in stocks Grants to States and loc authorities Advances to States and loc authorities Advances to States and loc authorities | cal go | vernn | nent | 1,971 13 1,759 260 184 35 1,672 5,894 694 -9 52 555 523 | 2,175 -14 2,041 377 205 40 1,769 6,595 838 -5 -25 627 | 2,373 15 2,533 323 252 54 2,077 7,626 808 -18 -45 707 668 | 2,743 6 3,142 300 288 63 2,538 9,081 1,000 18 38 900 748 | 3,57: 100 4,40: 28: 34: 9; 3,78: 12,608 1,35: 11: 31: 1,414 1,22: |

⁽a) Excludes financial enterprises.

Outlay classified by economic type and purpose

In the following two tables the outlay of all federal authorities is shown classified by economic type and purpose. The table on this page presents for 1974-75 the outlay according to purpose, classified by economic type, showing the Government's own demand for goods and services and the redistributive effect of its outlay.

FEDERAL AUTHORITIES: OUTLAY, CLASSIFIED BY ECONOMIC TYPE AND PURPOSE, 1974-75

(\$ million)

| | | Economi | c type | | | | |
|--|--|---------|-----------------------|----------|--|---------|-------------|
| | | | Gross ca formation | | Transfer p | ayments | |
| Purpose | Final consump- tion expendi- ture | | | Other(a) | Transfers to Interest persons(b) | | Subsidies |
| General public services— | | | | | | | |
| General administration, n.e.c | | 534 | 59 | 17 | | 2 | |
| External affairs | | 85 | 16 | | | | |
| Law, order and public safety | | 76 | 7 | 1 | | | |
| General research | | 110 | 21 | | | 1 | |
| Total general public services . | | 805 | 102 | 18 | | 2 | •• |
| Defence | | 1,444 | | 35 | | 86 | |
| Education | | 172 | 45 | | | 123 | |
| Health | | 304 | 40 | 2 | | 817 | 2 |
| Social security and welfare | | 171 | 9 | | | 3,355 | |
| Housing and community amenities . | | 51 | 94 | 20 | | | |
| Recreation and related cultural services | | 181 | 31 | 7 | •• | | •• |
| Economic services— | | | | | | | |
| General administration, regulation | and | | | | | | |
| research | | 172 | 4 | 1 | | 20 | 39 |
| Agriculture, forestry and fishing . | | 101 | 13 | 301 | | | 69 |
| Mining, manufacturing and construction | on . | 18 | 7 | 7 | • • | | 170 |
| Electricity and water supply | | | 26 | | | | |
| Transport and communication . | | 94 | 974 | 33 | • • | | 2 |
| Other economic services | • | 19 | 2 | • • | • • | • • | 2 |
| Total economic services | | 403 | 1,027 | 342 | •• | 20 | 282 |
| Other purposes— | | | | | | | |
| General purpose inter-authority trans | sfers | | | | | | |
| Natural disaster relief | | 44 | 6 | 1 | | 5 | |
| Interest | ٠ | • • | | • • | 108 | • • | • • |
| Total | | 3,575 | 1,354 | 425 | 108 | 4,409 | 284 |

⁽a) Includes increase in stocks and (net) expenditure on land and existing assets. (b) Includes cash benefits to persons and unfunded employee retirement benefits.

FEDERAL AUTHORITIES: OUTLAY, CLASSIFIED BY ECONOMIC TYPE AND PURPOSE, 1974-75—continued

(\$ million)

| | Economic | c type | | | | |
|---|-----------------------|---|---|---|------------------|--------|
| | Transfer | payments | | Net adva | nces | |
| Purpose | Transfers overseas | Grants for private capital purposes | Grants to States and local govern- ment author- ities | To States and local govern- ment author- ities | To other sectors | Total |
| General public services— | | | | | | |
| General administration, n.e.c | | | | | | 612 |
| External affairs | 329 | | | | 24 | 454 |
| Law, order and public safety | | | 1 | | | 85 |
| General research | | •• | 7 | | | 139 |
| Total general public services | . 330 | | 9 | | 24 | 1,290 |
| Defence | . 18 | | | 26 | | 1,610 |
| Education | | 8 | 1,329 | | | 1,676 |
| Health | | 4 | 108 | | | 1,277 |
| Social security and welfare | | 55 | 120 | | 3 | 3,713 |
| Housing and community amenities | | 29 | 80 | 546 | 212 | 1,032 |
| Recreation and related cultural services | • •• | •• | 13 | • • | 1 | 233 |
| Economic services— General administration, regulation and | | | | | | |
| research | | 1 | 5 | | | 242 |
| Agriculture, forestry and fishing | •• | | 43 | 39 | • • | 567 |
| Mining, manufacturing and construction. | i | • • • | | • • | | 206 |
| Electricity and water supply | • | | • • | 39 | | 65 |
| Transport and communication | • •• | • • | 424 | -5 | 12 | 1,534 |
| Other conomic services | | •• | 1 | | 80 | 104 |
| Total economic services | . 1 | 1 | 472 | 73 | 96 | 2,717 |
| Other purposes— | | | | | | |
| General purpose inter-authority transfers. | | | 3,019 | 582 | | 3,602 |
| Natural disaster relief | | | 49 | -2 | 3 | 106 |
| Interest | | | • • | | • • | 108 |
| Total | . 349 | 97 | 5,199 | 1,225 | 338 | 17,363 |

FEDERAL AUTHORITIES

FEDERAL AUTHORITIES: OUTLAY, CLASSIFIED BY PURPOSE (\$ million)

| Purpose | | 1970-71 | 1971-72 | | 1972-73 | 1973-74 | | 1974-75 |
|--|----------------|---|--------------------|----------------|--------------------|--------------------|------------------|----------|
| General public services— | | | | | - | | | |
| General administration, n.e.c | 254.1 | 321.6 | | 361.1 | | 0.0 | 611.9 | |
| External affairs | 265.1 26.3 | 263.4 32.7 | | 305.7 40.1 | 33 5 | 7.9 4.7 | 454.5 84.6 | |
| General research | 74.8 | 80.7 | | 89.9 | | 2.0 | 138.6 | |
| Total general public services . | | 620.3 | 698.6 | | 796.9 | 984.8 | | 1,289.9 |
| Defence | | 1,081.2 | 1,127.2 | | 1,206.4 | 1,306.0 | | 1,610.1 |
| Education— | | 7,001.2 | 1,12 | | 1,200.4 | 1,500.0 | | 1,010.1 |
| General administration, regulation and research | 7.1 | 8.4 | | 14.7 | | 4.5 | 21.4 | |
| Transportation of students | 0.8 | 0.8 | | 1.0 | | 1.2 | 1.5 | |
| Primary and secondary education. | 84.4 | 99.4 | | 125.I | | 0.2 | 546.3 | |
| Vocational training University education | 14.6 137.0 | 9.8 159.3 | | 18.3 | | 6.6 0.1 | 55.3 553.6 | |
| Other higher education | 41.7 | 55.7 | | 71.9 | 19 | 9.6 | 407.4 | |
| Other education programs | 13.7 | 15.6 | | 22.7 | 4 | 0.0 | 90.9 | |
| Total education | | 299.4 | 348.9 | | 444.2 | 862.2 | | 1,676.4 |
| Health— | | | | | | | | |
| General administration, regulation | 22.1 | 20 € | | 35.0 | • | 0.7 | 60 0 | |
| and research | 23.1 233.4 | 28.5 296.4 | | 25.8 344.5 | | 9.7 4.8 | 58.9 578.4 | |
| Other health services | 303.0 | 361.3 | | 409.9 | | 7.5 | 639.9 | |
| Total health | | 559.5 | 686.3 | | 780.3 | 942.1 | | 1,277.2 |
| Social security and welfare— | | 557.5 | 000.5 | | 700.3 | 742.1 | | 2,277.2 |
| General administration regulation | | | | | | | | |
| and research | 25.9 | 29.3 | | 37.7 | 6 | 0.4 | 83.0 | |
| Care of and assistance to— Aged persons | 610.1 | 713.8 | | 926.3 | 1 18 | 6.6 | 1 683 . 1 | |
| Incapacitated and handicapped | | | | | | | | |
| persons | 126.4 23.5 | 148.1 71.7 | | 197.0 181.4 | | 2.3 8.7 | 337.9 477.0 | |
| Ex-servicemen | 256.1 | 281.7 | | 320.1 | | 3.6 | 514.3 | |
| Widowed and deserted spouses. | 94.2 | 110.5 | | 150.3 | | 8.6 | 248.3 | |
| Families and children Other social security and welfare | 207.4 | 225.8 | | 262.9 | 27 | 5.6 | 312.4 | |
| services | 36.1 | 17.2 | | 28.8 | 36 | .5 | 57.1 | |
| Total social security, etc. , | | 1,379.6 | 1,598.1 | | 2,104.6 | 2,492.3 | | 3,713. |
| Housing and community amenities— | | 1,579.0 | 1,390.1 | | 2,104.0 | 2,472.3 | | 3,71312 |
| Housing | 195.7 | 54.4 | | 52.3 | 33 | 1.5 | 655.7 | |
| Community and regional develop- | | 25.0 | | | | | 221.7 | |
| Protection of the environment | 15.2 3.8 | 25.9 5.6 | | 24.2 8.7 | 2 | 4.6 | 231.7 143.7 | |
| Community amenities, n.e.c | 0.1 | • | | 0.3 | | 0.4 | 0.3 | |
| Total housing, etc | | 214.7 | 85.8 | | 85.5 | 468.5 | | 1,031 .: |
| Recreation and related cultural ser- | | | 02.0 | | **** | 700.0 | | -,0 |
| vices— | | | | | | | | |
| Cultural facilities | 6.8 | 8.8 | | 10.3 | 1 | 8.1 | 25.1 | |
| Support of the creative and per- forming arts | 3.6 | 5.6 | | 7.3 | 1 | 4.3 | 21.4 | |
| Broadcasting services and film | | | | | | • • | | |
| production Recreational facilities and ser- | 72.1 | 82.1 | | 89.0 | 11 | 2.8 | 153.0 | |
| vices | 6.0 | 6.2 | | 7 4 | 1 | 0.6 | 19.2 | |
| Other programs | 0.4 | 0.2 | | 0.4 | | 1.6 | 14.5 | |
| Total recreation, etc | | 88.9 | 102.8 | | 114.4 | 157.4 | | 233.0 |
| Economic services- | | | | | | | | |
| General administration, regulation | | 120 6 | | | | 62.8 | 242.4 | |
| and research | 133.8 260.2 | 139.5 312.3 | | 135.6 237.9 | | 6.2 | 242.4 566.7 | |
| Mining, manufacturing and con- | | | | | | | | |
| struction | 67.0 | 106.9 | | 134.0 | | 0.4 | 205.9 64.7 | |
| Electricity and water supply . Transport and communication. | 831.5 | 975.6 | | 963.3 | | 6.8 | 1,533.5 | |
| Other economic services | 64.0 | 54.7 | | 58.9 | 1 | 37.9 | 104.0 | 1 |
| Total economic services . | | 1,402.7 | 1,622.6 | | 1,570.6 | 1,926.3 | | 2,717. |
| Other purposes— | | - 3 - + | , | | | , | | |
| General purpose inter-authority | | | _ | | | | 1 (0) | |
| transfers | 2,097.8 | 2,370.4 2.4 | | ,628.4 -5.3 | | 10.2 22.6 | 3,601.4 106.3 | |
| Interest | 15.1 12.7 | -13.6 | | 15.0 | | 6.4 | 108.4 | |
| Other | | | | | | •• | | |
| Total other purposes | | 2,125.6 | 2,359.1 | | 2,638.0 | 2,769.3 | | 3,816. |
| Total outlay, all purposes . | | 7,771.9 | 8,629.5 | | 9,741.0 | 11,908.9 | | 17,363 |
| Of which— | | | | | | | | • |
| | | | | | 7 (38 (| 0.000 4 | | 12,608. |
| Current outlay | | 5,893.8 1,878.1 | 6,594.9 2,034.7 | | 7,625.6 2,115.4 | 9,080.6 2,828.2 | | 4,755. |

Main components of outlay

The following tables give further details of the main components of the outlay of federal authorities i.e. final consumption expenditure, expenditure on new fixed assets, cash benefits, subsidies and payments to the States. More detailed information relating to outlay under specific function headings such as defence, education, health and welfare, may be found in the relevant chapters of this Year Book.

Final consumption expenditure and expenditure on new fixed assets

Final consumption expenditure consists of current expenditure on goods and services by public authorities, other than those classified as enterprises, *less* any charges made for goods and services which they themselves provide. Expenditure on new fixed assets consists of purchases of new durable assets less sales of previously rented dwellings. Purchases of defence equipment are treated as current expenditure and all expenditure on road systems and ancillary facilities is treated as capital. The following tables show dissections by purpose of final consumption expenditure and expenditure on new fixed assets for the five years ended 1974–75.

FEDERAL AUTHORITIES, FINAL CONSUMPTION EXPENDITURE
CLASSIFIED BY PURPOSE
(\$ million)

| | (4 | | | | | |
|---|-----|---------|---------|---------|---------|---------|
| Purpose | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974–75 |
| General public services— | _ | | | | | |
| General administration | | 238 | 285 | 323 | 415 | 534 |
| External affairs | | 40 | 45 | 50 | 59 | 85 |
| Law, order and public safety | | 24 | 30 | 37 | 49 | 76 |
| General research | | 58 | 66 | 74 | 90 | 110 |
| Total general public services | | 360 | 426 | 485 | 613 | 805 |
| Defence | | 1,062 | 1,127 | 1,178 | 1,222 | 1,444 |
| Education | | 55 | 64 | 81 | 112 | 172 |
| Health | | 116 | 138 | 157 | 207 | 304 |
| Social security and welfare | | 50 | 61 | 77 | 104 | 171 |
| Housing and community amenities | | 9 | 11 | 16 | 32 | 51 |
| Recreation and related cultural services . | | 77 | 87 | 99 | 135 | 181 |
| Economic services— | | | | | | |
| General administration, regulation and resear | rch | 106 | 107 | 105 | 127 | 172 |
| Agriculture, forestry, fishing | | 66 | 72 | 82 | 83 | 101 |
| Mining, manufacturing and construction | | 10 | 11 | 12 | 14 | 18 |
| Transport and communication | | 46 | 56 | 64 | 78 | 94 |
| Other | | 14 | 16 | 16 | 15 | 19 |
| Total economic services | | 242 | 261 | 279 | 317 | 403 |
| Other purposes | | | | | 1 | 44 |
| Grand total | | 1,971 | 2,175 | 2,373 | 2,743 | 3,575 |
| | | - | - | - | | |

FEDERAL AUTHORITIES: EXPENDITURE ON NEW FIXED ASSETS, CLASSIFIED BY PURPOSE

I. GENERAL GOVERNMENT (\$ million)

| | | _ | | | | (| | | | | | | | | |
|--|--------------|----|--------|-------|---|----------------------------|-------|-------------------------------|-------|---------------------------------|-------|----------------------------------|---------------|----------------------------------|------|
| Purpose | | | | | | 19 | 70-71 | 19 | 71-72 | 19 | 72-73 | 19 | 73 –74 | 19 | 74-7 |
| General public services— General administration External affairs Law, order and public safe General research | · · ty | : | : | : | : | 18.6 2.3 2.0 13.0 | | 22.6 3.5 2.5 10.0 | | 35.9 15.4 2.9 9.3 | | 43.4 12.3 3.1 15.1 | | 57.2 15.9 7.2 20.6 | |
| Total general public se | rvices | | | | | | 35.8 | | 38.7 | | 63.6 | | 73.9 | | 100. |
| Education— General administration, re | | on | and re | seach | | 0.2 | | 0.3 | | 5.7 | | 0.2 | | 0.2 | |
| Transportation of students Primary and secondary edu Vocational training University education Other higher education Other education programs | icatio | n | : | : | • | 9.3 8.2 3.4 0.9 | | 13. i 7. 2 4. 0 0. 4 | | 8.9 2.4 7.8 2.9 2.4 | | 11.1 4.1 6.9 5.7 4.2 | | 19.6 3.3 8.4 5.6 7.9 | |
| Total education . | | | | | | | 22.0 | | 25.0 | | 30.1 | | 32.1 | | 45. |

EXPENDITURE ON NEW FIXED ASSETS, CLASSIFIED BY PURPOSE—continued

I. GENERAL GOVERNMENT—continued

(\$ million)

| | (\$ mi | | | | | | | | | |
|---|-----------------|-------------|-------------|------------|--------------|------------|-------------|---------------|--------------|-------------|
| Purposc | 19 | 70-71 | 19 | 71-72 | 19 | 72-73 | | 973-74 | | 774-75 |
| Health— | | | | | | | | | | |
| General administration, regulation and research Hospital and clinical services | . 0.5 | | 0.7 19.7 | | 1.0 16.3 | | 1.2 14.5 | | 5.0 | |
| Other health services | 6.3 | | 1.2 | | 2.1 | | 6.3 | | 26.6 8.7 | |
| Total health | | 16.1 | | 21.5 | | 19.4 | | 22.0 | | 40.3 |
| Social security and welfare— General administration, regulation and research | . 3.5 | | 2.1 | | 1.5 | | 9.5 | | 5.9 | |
| Care of and assistance to— Aged persons Incapacitated and handicapped persons | . o.i | | | | o. i | | 0.3 | | 0.5 1.4 | |
| Unemployed and sick persons Ex-servicemen | 2.2 | | 0.2 | | 0.3 | | 0.6 | | 0.7 | |
| Widowed and deserted spouses | . 2.2 | | 0.2 | | 0.3 | | 0.0 | | 0.7 | |
| Families and children Other social security and welfare programs | . 0.4 | | 0.3 | | 0.6 | | 0.3 | | 0.6 | |
| Total social security, etc | .— | 6.2 | | 2.6 | | 2.5 | | 10.7 | | 9.1 |
| Housing and community amenities | | | | | | | | | | |
| Housing | . 3.1 . 16.4 | | -1.2 22.3 | | -0.6 25.9 | | 1.9 34.4 | | 14.4 50.1 | |
| Protection of the environment | | | 0.7 | | 1.2 | | 2.6 | | 4.8 | |
| Community amenities, n.e.c | . 0.3 | _ | • • | _ | • • • | | | _ | 0.1 | |
| Total housing, etc | | 19.9 | | 21.8 | | 26.4 | | 38.9 | | 69.4 |
| Recreation and related cultural services — Cultural facilities | . 0.9 | | 1.8 | | 1.4 | | 3.7 | | 5.4 | |
| Support of the creative and performing arts . | 9.5 | | | | | | 15.4 | | | |
| Broadcasting services and film production . Recreational facilities and services | . 1.5 | | 11.7 1.4 | | 10.2 | | 13.4 | | 22.8 2.1 | |
| Other programs | . 0.2 | | 0.1 | | 0.1 | | 0.2 | | 0.5 | |
| Total recreation, etc | | 12.2 | | 15.0 | | 13.6 | | 20.7 | | 30.8 |
| Economic services— | | | | | | | | | | |
| General administration, regulation and research Agriculture, forestry, fishing | . 5.3 | | 5.8 4.1 | | 4.6 16.4 | | 3.3 9.3 | | 3.6 13.3 | |
| Mining, manufacturing and construction . | . 0.6 | | 0.6 | | 0.5 | | ó.7 | | 2.0 | |
| Electricity and water supply | 72.0 | | 56.9 | | 45.2 | | 43.6 | | 56.7 | |
| Other economic services | 0.2 | | 0.2 | | 0.1 | | 0.1 | | | |
| Total economic services | | 80.4 | | 67.6 | | 66.8 | | 57.1 | | 75.7 |
| Other purposes | | | | | | | | | | 6.5 |
| Total general government | • | 192.6 | | 192.3 | | 222.4 | | 255. 5 | | 377.5 |
| II. PUI | BLIC E | | RPRIS | ES | | · | | | | |
| Public trading enterprises— | | | | | | | | | | |
| General public services Housing and community amenities—Housing | • | 0.2 10.0 | | 0.5 7.2 | | 1.6 3.9 | | 0.7 0.5 | | 1.5 8.6 |
| Sewerage and drainage Recreation and related cultural services—Cultura | al | 2.3 | | 3.1 | | 5.4 | | 8.0 | | 15.6 |
| facilities | • | | | | | | | | | |
| Economic services— Technical services, n.e.c. | | | | 0.4 | | 0.4 | | 0.4 | | 0.6 |
| Manufacturing activities | | 1.2 43.2 | | 1.5 | | 1.8 | | 1.6 28.8 | | 4.8 26.1 |
| Electricity, water supply . Transport and communication— | • | 43.2 | | 31.5 | | 26.9 | | | | |
| Air transport | . 46.4 | | 138.7 | | 41.8 10.6 | | 69.5 | | 71.0 | |
| Rail transport | . 6.6 | | 16.0 | | 20.9 | | 10.5 | | 55.2 | |
| Urban transit systems | . 2.7 | | 2.6 | | 2.0 10.4 | | 2.7 56.0 | | 3.5 56.6 | |
| Communications services | 374.4 | | 426.4 | | 460.1 | | 558.8 | | 717.7 | |
| Total | | 443.4 | | 600.9 | | 545.7 | | 704.9 | | 917.4 |
| Other economic services | | 1.1 | | 1.0 | | 0.3 | | 0.1 | | 2.0 |
| Total public trading enterprises | | 501.3 | | 646.0 | | 585.9 | | 745.0 | | 976.7 |
| Public financial enterprises | | 14.4 | | 23.7 | | 28.3 | | 21.8 | | 31.0 |
| Total public enterprises | | 515.7 | | 669.6 | | 614.2 | | 766.8 | | 1,007.7 |
| - orac prome emerprises | • | J.J., | | .,,,,, | | 7.2 | _ | | | .,,., |

Cash benefits to persons

Total payments of cash benefits to persons during the latest five years are shown in the next table. Further information relating to items in this table is given in appropriate chapters of this Year Book.

FEDERAL AUTHORITIES: CASH BENEFITS TO PERSONS (\$'000)

| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---|---|---|------------------|-------------------|--------------|
| General public services | | | | | |
| General research— Queen Elizabeth fellowships | . 226 | 282 | 330 | 451 | 473 |
| Defence— Special pensions to ex-servicemen | | 5 | 2 | 2 | |
| Education— | | | | | |
| Primary and secondary education— Student assistance | 6,791 | 6,924 | 8,663 | 11,895 | 8,599 |
| Australian Capital Territory and Northern Territory scholarships and allowances | y . 209 | 193 | 183 | 53 | 46 9,539 |
| Assistance to isolated children | • | ·· | 2,588 | 8,188 | - |
| Total | . 7,000 | 7,117 | 11,434 | 20,136 | 18,184 |
| Vocational training— Student assistance | . 1,096 | 1,048 | 1,008 | 516 | 128 |
| University education— Australian National University scholarships . | . 1,346 | 1,295 | 1,437 | 1,178 | 1,326 |
| Student assistance— post-graduate | . 5,209 | 5,888 | 6,671 | 7,461 | 8,143 |
| under-graduate | 22,519 | 28,127 | 36,827 | 29,564 | 38,862 |
| Australian Agricultural Council scholarships | . 51 | 54 334 | 59 267 | 60 236 | 71 234 |
| Wool research studentships Forestry scholarships | . 368 | 69 | 76 | 80 | 89 |
| Assistance to Vietnamese and Cambodian students Other | . iģ | iż | ii | i is | 53 84 |
| Total | . 29,579 | 35,779 | 45,348 | 38,597 | 48,862 |
| Other higher education— | | | | | 25.40 |
| Student assistance Teaching scholarships at Canberra College of Advance | . 2,793 d | 3,552 | 5,397 | 20,558 | 37,480 |
| Education | . 12 | 29 109 | 41 364 | 25 697 | 1,07 |
| Commonwealth Teaching Service scholarships . Pre-school teaching scholarships | | 109 | 1,288 | 1,755 | 2,64 |
| Non government institutions-fees | : :: | | -, | • • • | 1,61 |
| Other | • | | | • • • | 1. |
| Total | . 2,805 | 3,690 | 7,090 | 23,035 | 42,83 |
| Other education programs— | 126 | 474 | 631 | 905 | 1,40 |
| Aboriginal study grants | . 326 . 2,201 | 2,536 | 4,267 | 6,093 | 7,19 |
| Soldiers children education scheme | 3,407 | 3,625 | 3,573 | 3,460 | 3,68 |
| Adult secondary education assistance | . · · · · · · · · · · · · · · · · · · · | iż | żż | i i | 75 |
| Other | . , | 12 | ,, | | |
| Total | . 5,939 | 6,647 | 8,548 | 10,472 | 13,08 |
| Total education | . 46,419 | 54,281 | 73,428 | 92,756 | 123,09 |
| Health- | | | | | |
| Hospital and clinical services— Hospital benefits, n.e.c | . 49,807 | 67,305 | 82,270 | 89,488 | 161,59 |
| Hospital benefits for pensioners | . 23,555 | 24,065 70,593 | 82,270 23,768 | 24,295 | 25,18 |
| Nursing home benefits | 49,477 | 70,593 | 92,836 780 | 112,740 740 | 161,59 75 |
| Tuberculosis campaign—allowances . | . 659 | 630 | 134 | 150 | 20 |
| Rehabilitation of ex-servicemen Other | | • | | 1 | |
| Total | . 123,498 | 162,593 | 199,788 | 227,414 | 303,88 |
| Other basks as also | • - | - | | | |
| Other health services— Medical benefits for pensioners | . 19,904 | 27,804 | 30,822 | 35,417 | 47,80 |
| Medical benefits, n.e.c. | 95,604 | 132,574 52,005 | 160,238 | 35,417 163,449 | 195,81 |
| Pharmaceutical benefits for pensioners | . 45,181 | 52,005 | 58,139 | 66,803 | 80,69 |
| Pharmaceutical benefits, n.e.c. | . 115,094 | 121,263 | 119,493 | 151,493 8,118 | 181,64 |
| Milk for school children | . 10,199 | 11,894 | 11,781 | 6,309 | 7,1 |
| | . 285,982 | 345,540 | 381,495 | 431,589 | 513,13 |
| Total | . 409,480 | • | 581,283 | 659,003 | 817,01 |
| Total health | . 4UY.48U | 200.133 | 301,203 | 027,003 | 027,01 |

FEDERAL AUTHORITIES: CASH BENEFITS TO PERSONS—continued (\$'000)

| | | | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---|--------------|----------|---------|-----------|--------------|-------|---|-----------------|-----------------|----------------|---|------------------|
| Social security an | | | | | | | | | • | | | |
| Assistance to as Age pensions | ged person | 15 | | | | | | 582,889 | 680,322 | 997 760 | 1 146 207 | |
| Delivered me | | : | | : | : | : | : | 218 | 226 | 887,750 398 | 1,146,387 958 | 1,612,451 968 |
| Personal care | | | | | · | : | | 1,592 | 1,830 | 3,273 | 4,949 | 7.651 |
| Telephone co | oncessions | | | | • | | • | 2,955 | 3,806 | 4,172 | 5,394 | 7,053 |
| Total. | | | | | | | | 587,654 | 686,184 | 895,593 | 1,157,688 | 1,628,123 |
| Assistance to in | ncapacitate | ed and | hand | licapr | ed pe | rsons | _ | | | | | |
| Invalid pensi | ons . | | | | | | | 119,387 | 138,194 | 184,699 | 226,022 | 306,477 |
| Sheltered em | | | | | - | | ٠ | 590 | 742 | 1,161 | 1,418 582 | 3.075 |
| Handicapped Rehabilitatio | n services | s benen | ITS | • | • | • | • | 456 3,107 | 438 3,945 | 429 | | 2,469 |
| Memaomitatio | ii sei vices | • | • | • | • | • | • | 3,107 | 3,543 | 4,658 | 6,203 | 9,329 |
| Total. | | | • | | • | • | | 123,540 | 143,319 | 190,947 | 234,225 | 321,350 |
| Assistance to u | nemployed | and s | ick pe | rsons | — | | | | | | | |
| Unemployme | | S . | | | | | | 10,795 | 25,997 | 46,553 | 58,246 | 251,740 |
| Sickness bene Special benef | ents . | • | • | | • | • | • | 10,262 2,420 | 15,906 2,851 | 26,610 | 41,407 | 62,833 10,992 |
| Structural ad | | Issistan | ce | • | • | • | : | 2,420 | 2,031 | 4,368 | 6,983 | 51,040 |
| Other . | | | | : | | ÷ | · | | :: | 80 | 44 | 20 |
| Total. | | | | | | | | 23,477 | 44,754 | 77,611 | 106,681 | 376,625 |
| Assistance to ex | v carvicam | an | | | - | • | | | , | .,, | 100,001 | 370,023 |
| War and serv | ice pensio | | allow | ances | s . | | | 234,979 | 260 150 | 297,304 | 355,803 | 469,908 |
| Other benefit | s . | • | • | • | • | • | • | 3,823 | 4,058 | 3,720 | 4,025 | 4,043 |
| Total. | | | | | | | | 238,802 | 264,208 | 301,024 | 359,828 | 473,951 |
| Assistance to w | idowed an | d dese | rted s | pouse | s— | | | | | | | |
| Widows' pens | sions . | | | | | | ٠ | 90,514 | 104,627 | 140,505 | 180,957 | 241,389 |
| Child endow | | chilar | en— | | | | | 198,442 | 216,581 | 253,860 | 225,360 | 224,848 |
| Maternity all | | | : | : | : | : | : | 8,554 | 8,617 | 7,970 | 7,782 | 7,506 |
| Supporting m Orphans' pen | nothers' be | nefits | • | | | • | ٠ | | • • • | | 40,586 458 | 76,092 1,381 |
| | 1310113 | • | • | • | • | • | • | | | | | |
| Total. | | • | • | • | • | • | • | 206,996 | 225,198 | 261,830 | 274,186 | 309,827 |
| Other social sec | urity and | welfare | prog | rams- | _ | | | | | | | |
| Funeral bene Telephone re | | esione : | n e c | • | • | • | ٠ | 1,653 662 | 1,583 802 | 1,579 863 | 1,578 1,024 | 1,641 1,299 |
| Emergency as | | | | ers . | : | : | : | 21,327 | 187 | 803 | 1,024 | 1,299 |
| Compassiona | | | | | | | | 91 | 98 | 104 | 104 | 95 |
| Assistance to | homeless | person | S | • | | | | .:: | | | *** | 275 |
| Other . | | • | • | • | • | • | • | 137 | 132 | 134 | 378 | 505 |
| Total. | | • | • | • | • | • | ٠ | 23,870 | 2,802 | 2,680 | 3,084 | 3,815 |
| Total soc | ial security | y and w | velfare | | • | | | 1,294,853 | 1,471,092 | 1,870,190 | 2,316,648 | 3,355,080 |
| Economic services | | | | _ | | | | | | | | |
| General admini Hostel tariffs | stration, re | egulatio | on and | ı rese | arch~ | - | | 729 | 602 | 252 | 290 | 289 |
| Maintenance | | | | ııs | • | • | • | 4,927 | 4,298 | 4,385 | 4,425 | 6,029 |
| Stevedoring in | | | | oney, | etc. | : | : | 1,140 | 1,207 | 1,362 | 1,606 | 2,126 |
| Widows' train | ning schen | ne | | | | | | 539 | 656 | 516 | 875 | 863 |
| Tertiary educ | | | | | emen | | ٠ | 565 | 725 | 814 | 820 | 421 |
| National emp Other | oloyment t | raining | scher | ne | • | • | ٠ | | · j | iò | iż | 10,590 |
| | • | • | | - | • | • | • | | - | | | 20.221 |
| Total. | • • | | • | • | • | • | • | 7,900 | 7,497 | 7,339 | 8,028 | 20,321 |
| Agriculture, for War service la Allowances to | and settlen | nent—i | rent re | missi | ions, e | tc. | | 51 | 30 | 50 | 13 66 | 12 49 |
| Total. | Ū | | | | | | | 51 | 30 | 50 | 79 | 61 |
| | · · · | ond co | | , niar | • | • | • | <i>J</i> 1 | 50 | 55 | • | 31 |
| Mining, manu Joint coal b | oard—We | elfare f | und | | . | | | 36 | 43 | 40 | 36 | 5 |
| Total eco | nomic serv | ices | | | | | | 7,987 | 7,570 | 7,429 | 8,143 | 20,387 |
| Other purpose | | | | | | | | • | - | | | 5,217 |
| | | • | • | | - | • | • | .1 750 065 | 2.041.263 | 2 522 662 | 3,077,002 | • |
| Tota | | • | • | • | • | • | • | 1,758,965 | 2,041,363 | 2,532,662 | 3,077,002 | 4,321,269 |

Subsidies

The following table shows details of Commonwealth Government outlay on subsidies and bounties. Other assistance to primary producers is included in, for example, tables relating to cash benefits and payments to the States, and additional information is given in Chapter 22, Rural Industry.

FEDERAL AUTHORITIES: SUBSIDIES (\$'000)

| | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---|------------------|------------------|------------------|------------------|------------------|---------|
| Departmental cafeteria compensation | | | ••• | 189 | 179 | |
| Serum laboratories | | 479 | | 681 | 1,542 | |
| N.T. Housing Commission assistance Canberra Theatre Trust subsidy | 26 | 28 | 113 38 | 76 67 | 64 120 | |
| Economic services— | • | | 30 | | | |
| Assistance to employers— Stevedoring industry assistance | 12.289 | 15.709 | 12,792 | 14,480 | 22.330 | |
| | 570 | 788 | | 6,130 | 16,551 | |
| Other | | | ••• | 132 | | |
| Total | | 12,859 | 16,497 | 14,001 | 20,741 | 38,881 |
| Assistance to agricultural and pastoral enter- prises— | | | | | | |
| Dairy products subsidy | 41,500 | 39,882 | 28,500 | 18,000 | 9,000 | |
| | 29,008 40,815 | 58,357 45,795 | 41,371 56,568 | 12,360 66,962 | 29.508 | |
| Nitrogenous fertilisers bounty | 9,716 | 9,757 | 13,138 | 13,573 | 13,983 | |
| Poultry industry assistance | 12,505 | 13,222 | 12,910 | 11,522 | 12,735 | |
| Devaluation compensation | 21,000 | 7,204 | 175 | 464 | • • | |
| Wool marketing assistance Deficiency payments for wool | 2,900 | 4,100 52,671 | 2,481 1.640 | 404 11 | • • | |
| Deficiency payments for wool. Apple and pear stabilisation payments. | • • • | 2,584 | 3,119 | 2,758 | 3,1 i 9 | |
| Other | 7,161 | 3,627 | 3,695 | 3,631 | 648 | |
| Total | | 164,605 | 237,200 | 160,317 | 129,199 | 68,993 |
| Assistance to mining enterprises— | | m e 2 - | 2.224 | 10.000 | £ 0£0 | |
| Oil search subsidy | 9,643 2,828 | 7,536 1,712 | | 10,000 17 | 5,858 | |
| Other | 568 | 1,205 | 273 | 1,470 | 84 | |
| · Total | | 13,039 | 10,453 | 8,605 | 11,487 | 5,942 |
| Assistance to maniufacturing enterprises— | | | | | | |
| Agricultural tractor bounty | 2,750 | 3,160 | 2,800 | 3,707 | 4,442 | |
| Book bounty | 3,217 | 3,181 | 2,984 | 3,409 | 5,936 | |
| Industrial research and development grants Ship construction subsidy | | 13,000 13,396 | | 15,000 20,925 | 17,500 31,153 | |
| Export incentive grants | (a) | 5,674 | | | 93,151 | |
| Structural adjustment assistance | | ٠., | | 109 | 5,304 | |
| Refrigeration compressors bounty Other | 2,276 | 1,083 | 2,405 | 1,180 | 3,877 2,600 | |
| Total | | 43,139 | 84,494 | 111,163 | 112,472 | 163,963 |
| Agrictores to air transport accusions | | 2,000 | 1.900 | 2,000 | 1,870 | 926 |
| Assistance to air transport services Assistance to sea transport services | | 2,000 | 217 | 2,000 | 1,024 | 1,040 |
| Other assistance to enterprises— | | | | | - | • |
| | 21,737 | 23,064 | 23,305 | 19,336 | 1,708 | |
| Northern Territory petrol prices equalisa- tion | 2,092 | 2,165 | 2,393 | 2,483 | 626 | |
| Total | | 23,829 | 25,229 | 25,698 | 21,819 | 2,334 |
| Natural disaster relief— | | | | | | |
| N.T. drought and flood relief freight concessions and subsidies | | 149 | 210 | 27 | 69 | 48 |
| | | | | 222 524 | 200 (05 | 404 634 |
| Total | | 259,931 | 376,708 | 322.594 | 299,695 | 284,032 |

⁽a) Offset against gross receipts of pay-roll tax prior to 1971-72.

Grants and advances to the States

Commonwealth Government financial assistance to the States takes two main forms: (i) grants for general and specific purposes, and (ii) assistance for developmental and other specific purposes in the form of repayable advances. Some information about the more important or most recent of these forms of financial assistance is given on pages 571-579, but for more complete information reference should be made to the Commonwealth Government Budget paper Payments to or for the States and Local Government Authorities. Further information also appears in chapters of this Year Book dealing with the specific function which the payments are designed to serve.

Grants to the States

The following tables show details of grants to the States for general and specific purposes. More detailed figures appear in *Public Authority Finance: Federal Authorities*.

FEDERAL AUTHORITIES: GRANTS TO THE STATES, 1974-75 (\$'000)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Tota |
|---|-------------------|-------------------|------------------|---------------------------------------|------------------|-----------------|------------------|
| | FOR CU | RRENT P | URPOSES | 5 | | | |
| General public services | 3,024 | 1,951 | 1,041 | 1,661 | 659 | 309 | 8,64 |
| Defence | 188 | 276 414 | 114 | 88,971 | 83,844 | 23 | 32 |
| Education | 317,169 16,496 | 276,414 9,393 | 117,541 7,401 | 5,116 | 6,520 | 26,717 2,357 | 910,65 47,28 |
| Social security and welfare | 18,305 | 17,397 | 10,026 | 6,478 | 7,394 | 2,222 | 61.82 |
| Housing and community amenities . | 3,053 | 2,266 | 985 | 1,479 | 1,275 | 436 | 9,49 |
| Recreation and related cultural services . | 9 | 29 | 6 | 8 | 11 | 7 | 70 |
| Economic services | 6,960 | 4,653 | 4,397 | 1,317 | 2,175 | 2,752 | 22,25 |
| Other purposes— Financial assistance grants | 737,522 | 548,405 | 414,446 | 261,737 | 279,830 | 131,871 | 2,373,81 |
| Special grants | ,,,,,,, | 540,405 | 24,750 | 39,934 | 275,050 | 131,071 | 64,68 |
| Special revenue assistance | 18,641 | 13,861 | 10,475 | 16,616 | 7,073 | 8,333 | 75,00 |
| Payments under Financial Agreement- | | | | | | | |
| Interest on States' debt | 5,835 | 4,254 | 2,192 | 1,525 | 947 | 534 | 15,28 |
| Sinking fund on States' debt | 10,079 18,999 | 7,525 13,914 | 4,012 7,627 | 4,072 7,478 | 2,976 5,528 | 2,141 3,975 | 30,80 57,52 |
| Debt charges assistance Natural disaster relief | 612 | 284 | 7,027 84 | 1,410 | 3,328 | 3,913 | 980 |
| Local government (Grants Commis- | | 201 | 01 | • • • | • • | | -0. |
| sion) | 21,359 | 14,630 | 8,954 | 4,774 | 4,959 | 1,669 | 56,34 |
| Total other purposes | 813,047 | 602,873 | 472,540 | 336,136 | 301,313 | 148,523 | 2,674,43 |
| Total grants for current purposes | 1,178,251 | 914,976 | 614,051 | 441,166 | 403,191 | 183,346 | 3,734,98 |
| | | | | | | | |
| Education | 146,584 17,257 | 118,431 12,795 | 59,461 9,663 | 44,832 7,352 | 34,170 11,601 | 11,994 2,067 | 415,47 60,73 |
| Social security and welfare | 3,432 | 1,493 | 1,467 | 556 | 693 | 154 | 7,79 |
| Housing and community amenities | 23,453 | 17,623 | 13,284 | 8,592 | 6.090 | 1,082 | 70,12 |
| Recreation and related cultural services . | 2,829 | 2,281 | 1,557 | 1,601 | 2,884 | 1,471 | 12,62 |
| Economic services— | | | | | | | |
| General administration, regulation and research | | | 163 | 17 | | | 186 |
| Soil and water resources management | 4,355 | 1,610 | 6,106 | 1,285 | 1,702 | 135 | 15,19 |
| Assistance to agricultural and pastoral | 4,555 | 1,010 | 0,100 | 1,205 | 1,702 | 133 | 10,10 |
| activities | 3,250 | 2,901 | 1,352 | 705 | 1,125 | 984 | 10,31 |
| Rail transport | : : | | | 672 | 62 | | 734 |
| Sea transport | 2,018 | 75.951 | 75,65i | 31,888 | 50.449 | 24,129 | 2,018 |
| Urban public transport | 115,792 14,863 | 18,867 | 2,126 | 6,215 | 2,829 | 359 | 373,866 45,25 |
| Other | 828 | 266 | 149 | 180 | 37 | 209 | 1,66 |
| Total economic services | 141,106 | 99,595 | 85,547 | 40,962 | 56,204 | 25,816 | 449,22 |
| | 141,100 | 77,173 | 05,547 | 70,702 | 30,204 | 23,010 | 777,22 |
| Other purposes— Capital assistance | 107,313 | 87,370 | 46,112 | 46,927 | 32,179 | 25,977 | 345,87 |
| Natural disaster relief | 13,239 | 9,107 | 25,551 | 114 | 32,177 | 23,777 | 48,01 |
| Total grants for capital purposes . | 455,213 | 348,695 | 242,642 | 150,936 | 143,821 | 68,561 | 1,409,86 |
| | то | ΓAL GRA | NTS | | | | |
| | | | | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | | | |

| FEDERAL | AUTHORITIES: | GRANTS | TO | THE | STATES |
|---------|---------------------|---------------|----|-----|---------------|
| | (| S'000) | | | |

| | | | (3 000) | | | | |
|--|--------|-----------|-----------|-----------|-----------|-------------|--------------|
| | | | 1970–71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
| FO | R C | URI | RENT PUR | RPOSES | | | |
| General public services | • | | 4,320 | 4,490 | 5,917 | 8,051 | 8,646 |
| Defence | • | | | | | | 32: |
| Education | • | | 100,916 | 118,923 | 153,858 | 433,470 | 910,657 |
| Health | | • | 12,352 | 11,908 | 13,836 | 26,734 | 47,281 |
| Social security and welfare | | | 4,249 | 34,112 | 118,686 | 22,258 | 61,823 |
| Housing and community amenities | | | 131 | 4,151 | 6,892 | 7,437 | 9,494 |
| Recreation and related cultural services | | | | | | 218 | 70 |
| Economic services | | • | 7,924 | 9,876 | 13,076 | 17,121 | 22,252 |
| Other purposes— | | | | | | | |
| Financial assistance grants | | | 1,418,518 | 1,440,878 | 1,647,293 | 1,859,905 | 2,373,811 |
| Special grants | | | 18,680 | 23,800 | 38,600 | 38,550 | 64,684 |
| Special revenue assistance | | | 43,000 | 55,000 | | 25,000 | 75,000 |
| Payments under Financial Agreement- | _ | | | | | | |
| Interest on State's debt | | | 15,170 | 15,170 | 15,170 | 15,053 | 15,287 |
| Sinking fund on State's debt . | | | 24,550 | 26,323 | 27,979 | 29,509 | 30,805 |
| Debt charges assistance | | | 11,504 | 23,008 | 34,512 | 46,016 | 57,520 |
| Natural disaster payments | | | 9,944 | 1,143 | 72 | 4,069 | 980 |
| Local Government Grants Commissio | n. | | · | | | | 56,345 |
| Total other purposes | | | 1,541,366 | 1,585,323 | 1,763,626 | | 2,674,432 |
| Total grants for current purposes | | | 1,671,259 | 1,768,783 | - | | |
| | | | | | | | |
| FC | R C | API | TAL PUR | POSES | | | |
| Education | | | 74,035 | 85,969 | 105,569 | 189,064 | 415,473 |
| Health | | | 5,404 | 6,076 | 7,150 | 25,099 | 60,734 |
| Social security and welfare | | | 5,419 | 8,600 | 7,683 | 7,261 | 7,795 |
| Housing and community amenities . | | | 5,136 | 5,276 | 11,651 | 25,044 | 70,125 |
| Recreation and related cultural services | | | | | | 1,562 | 12,623 |
| Economic services— | | | | | | | |
| General administration, regulation and | resea | rch | 142 | 372 | 24 | 24 | 180 |
| Soil and water resources management | | | 25,587 | 22,843 | 17,646 | 13,571 | 15,193 |
| Assistance to agricultural and pastoral | activi | ties | 2,579 | 13,796 | 14,523 | 11,204 | 10,316 |
| Electricity, gas, water supply . | | | | | 1,500 | | |
| Rail transport | | | 3,624 | 2,845 | 1,416 | 468 | 734 |
| Sea transport | | | · | | 3,057 | 1,000 | 2,018 |
| Road transport | | | 227,049 | 255,464 | 287,439 | 325,657 | 373,860 |
| Urban public transport | | | , | | | | 45,259 |
| Other | | | | | 50 | 98 | 1,667 |
| Total economic services | | | 258,981 | 295,320 | 325,655 | 352,020 | 449,227 |
| Other purposes— | • | • | | , | , | , | , , |
| Natural disaster relief | | | 4,686 | 5,430 | -77 | 20,361 | 48,011 |
| Capital assistance | • | • | 200,000 | 219,100 | 248,539 | 278,307 | 345,878 |
| Total grants for capital purposes | • | • | 553,661 | 625,771 | 706,169 | 898,716 | 1,409,868 |
| | • | <u>.</u> | | | ,,,,,,,, | | -,,,500 |
| | TC | <u>TA</u> | L GRANT | <u>s</u> | | | |
| Total grants to the States . | | | 2,224,920 | 2,394,554 | 2,782,060 | 3,432,109 | 5,144,849 |

General purposes grants

The Financial Assistance Grants. Details of the financial assistance grants arrangements existing in 1972-73 and previous years are given in earlier issues of the Year Book (see No. 60, page 578). Existing arrangements are embodied in the States Grants Act 1973. An income tax sharing scheme between Commonwealth, State and local government authorities will come into operation in 1976-77 and will replace existing arrangements.

Under the present arrangements the financial assistance grants increase each year in proportion to the increase in average wages in Australia as a whole in the year ending 31 March in the year of payment and to the increase in each State's population in the year ending 31 December in the year of payment, and by a betterment factor of 1.8 per cent. Following the acceptance by the Commonwealth Government of full financial responsibility for financing tertiary education from 1 January 1974, it

was agreed that the financial assistance grants would be reduced by the estimated amounts of recurrent expenditure of which the States were thereby being relieved. Financial assistance grants additional to the grants determined by the formula were paid to Western Australia in 1973-74 and 1974-75 and to Tasmania in 1974-75. The following tables show particulars of the calculations of the financial assistance grants for 1974-75.

CALCULATION OF FINANCIAL ASSISTANCE GRANTS FOR 1974-75 (S'000)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|--|---------|---------|---------|---------|----------|-----------|-----------|
| Base grants— | | | | | | | |
| 1973-74 financial assistance grants . | 585,507 | 437,604 | 318,245 | 204,918 | 222,388 | 91,243 | 1,859,905 |
| Less additional grants to Western Australia in 1973-74(a) Plus 1973-74 tertiary education | | | | | 10,000 | | 10,000 |
| 'offsets'(b) | 36,400 | 34.800 | 13,500 | 12,000 | 11,600 | 3,500 | 111,800 |
| Plus addition to Queensland's Base(c). | | | 2,000 | | , | | 2,000 |
| Total base grants | 621,907 | 472,404 | 333,745 | 216,918 | 223,988 | 94,743 | 1,963,705 |
| Plus additions under formula (d) | 190.815 | 146,801 | 108,301 | 69,519 | 73,542 | 29,328 | 618,306 |
| Sub-totals | 812,722 | 619,205 | 442,046 | 286,437 | 297,530 | | 2,582,011 |
| Less 1974-75 tertiary education 'offsets'(b) | 75,200 | 70,800 | 27,600 | 24,700 | 24,200 | 7,200 | 229,700 |
| Plus additional grants to Western Aus- | • | | • | • | | , | , |
| tralia and Tasmania | • • | | | • • | (e)6,500 | (f)15,000 | 21,500 |
| Total financial assistance grants | 737,522 | 548,405 | 414,446 | 261,737 | 279,830 | 131,871 | 2,373,811 |

⁽a) Comprising a \$6.5 million additional financial assistance grant and a further special temporary addition of \$3.5 million for 1973-74. (b) 'Offsets' agreed to at the June 1973 Premiers' Conference to accompany the assumption of full financial responsibility for tertiary education by the Commonwealth Government from January 1974. (c) An addition of \$2 million has been made to Queensland's base each year since 1965-66. (d) Calculated from the Statistician's estimates of increases in State populations in the year ended December 1974 (a weighted average of 1.88 per cent for all States combined), the Statistician's estimate of the increase in average wages for Australia as a whole in the year ended March 1975 of 26.78 per cent and the betterment factor of 1.8 per cent. (e) Agreed to following June 1973 Premiers' conference. (f) Addition agreed to following June 1974 Premiers' conference to enable Tasmania to withdraw from the special grants system.

Special Grants. These grants are paid to the financially weaker States as supplements to the financial assistance grants. They are paid on the recommendation of the Grants Commission. The recommendation by the Commission for payment of a special grant consists of two parts: (i) One part is based on an estimate of the claimant State's financial need in the current financial year, and is treated as an advance payment subject to adjustment two years later when the Commission has compared in detail the audited budget results and standards of effort and of services provided in that year for both the claimant State and the States which the Commission takes as 'standard' (New South Wales and Victoria at present). (ii) The other part represents the final adjustment to the advance payment made two years earlier and is known as the completion payment. The following table shows special grants paid in recent years.

GRANTS COMMISSION: SPECIAL GRANTS (\$'000)

| | 1971-72 | 1972-73 | 1973-74 | 1974-75 | 1975-76 |
|--|---------|--------------------------------------|--|---|---|
| | | | | | |
| | 9,000 | 10,000 | 10,000 | 15,000 | 25,000 |
| | | 9,750 | 11,300 | 9,000 | (b) |
| | 9,000 | 19,750 | 21,300 | 24,000 | (b) |
| | | | | | |
| | 7,000 | 13,500 | 15,000 | 15,000 | |
| | 4,900 | 8,500 | 2,500 | (c)10,000 | |
| | 11,900 | 22,000 | 17,500 | 25,000 | |
| | | | | | |
| | 11,000 | 10,000 | 10,000 | | |
| | -1,350 | (d) | (d) | | |
| | 9,650 | 10,000 | 10,000 | | |
| | 30,550 | 51,750 | 48,800 | 49,000 | (b) |
| | | 9,000 9,000 7,000 4,900 | . 9,000 10,000 9,750 . 9,000 19,750 . 7,000 13,500 . 4,900 8,500 . 11,900 22,000 . 11,000 10,0001,350 (d) . 9,650 10,000 | 9,000 10,000 10,000 9,750 11,300 9,000 19,750 21,300 7,000 13,500 15,000 4,900 8,500 2,500 11,900 22,000 17,500 11,000 10,000 10,0001,350 (d) (d) 9,650 10,000 10,000 | . 9,000 10,000 10,000 15,000 9,750 11,300 9,000 . 9,000 19,750 21,300 24,000 . 7,000 13,500 15,000 15,000 . 4,900 8,500 2,500 (c)10,000 . 11,900 22,000 17,500 25,000 . 11,000 10,000 10,0001,350 (d) (d) 9,650 10,000 10,000 |

⁽a) Adjustment to estimated grant paid two years previously. (b) Not yet determined. (c) Represents agreed estimate of completion grant which could have been expected to be recommended by the grants commission if the State had remained claimant. (d) No completion grants were or are to be paid to Tasmania in respect of these years.

Minus sign (---) denotes excess of repayment.

Capital assistance grants. Since 1970-71 the Commonwealth Government has provided a portion of the State's Loan Council programs in the form of interest-free capital grants. The grants replace State borrowings and thereby relieve them of debt charges they would otherwise have had to pay. These grants, which were authorised by the States Grants (Capital Assistance) Acts, totalled \$278.3 million in 1973-74, \$345.9 million in 1974-75, and in 1975-76 \$430.3 million has been budgeted.

Specific purpose grants

This section briefly outlines some of the more important grants made to the States for specific purposes in 1973-74 and 1974-75. Payments for years prior to 1973-74 are given in earlier issues of the Year Book (see No. 60, page 580). Unless otherwise specified, programs are authorised by Commonwealth Appropriation Acts for the relevant years.

General public services—General research

Research grants. The Commonwealth Government agreed to finance a program of research costing \$22.8 million in the 1973-75 triennium for projects recommended by the Australian Research Grants Committee.

Education

Universities. Payments to the States for universities were introduced in 1951-52, and details of the States Grants (Universities) Act under which they were continued are given in earlier issues of the Year Book (see No. 51, page 923 and No. 52, page 770). The States Grants (Universities) Act (No. 2) 1972 authorised grants totalling \$343.5 million for the Commonwealth Government's share of the 1973-75 triennial program. However, largely as a result of the assumption of full financial responsibility and various other program increases agreed to since, the Commonwealth Government's contribution to universities expenditure over the 1973-75 triennium is now estimated to total \$980.1 million.

(Colleges of Advanced Education (including Teachers Colleges). Under the States Grants (Advanced Education) Act 1972, the Commonwealth Government was to provide financial assistance to the States of \$172.3 million during the 1973-75 triennium for recurrent and capital expenditures. However, there were various amendments to the triennial program since that date and the Commonwealth Government's contribution is now estimated to amount to \$742.9 million at December 1975 price levels. The additional grants were authorised by various States Grants (Advanced Education) Acts between 1972 and 1976.

Schools. In 1973-74 and 1974-75 Commonwealth grants of \$161.6 million and \$433.9 million, respectively, were made to the States for government and non-government schools. These grants were authorised under:—

The States Grants (Science Laboratories) Act 1971 which was effective over the four-year period 1 July 1971 to 30 June 1975, and provided grants totalling \$43.3 million for science laboratories in secondary schools;

The States Grants (Secondary Schools Libraries) Act 1971 which authorised grants totalling \$30 million over the three years 1972–1975 for secondary school libraries;

The States Grants (Schools) Act 1972 which authorises unmatched capital grants totalling \$220.6 million over the five-year period 1 July 1973 to 30 June 1978; and

The States Grants (Schools) Act 1973 which provided unmatched capital and recurrent grants totalling \$668.7 million in the two calendar years 1974 and 1975.

Technical education. Grants to the States for capital and recurrent purposes for institutions of technical and further education are authorised under the States Grants (Technical and Further Education) Act 1974. This Act appropriates a total of \$131.0 million over the period 1 July 1974 to 31 December 1976.

Services for children. \$6.5 million was made available to the States in 1973-74 and \$37.5 million in 1974-75 towards the establishment and operation of pre-schools and child care centres throughout Australia.

Child migrant education. The Immigration (Education) Act 1971 authorised payments for the provision of special instructions to migrant children. Payments amounted to \$7.0 million in 1973-74 and \$11.3 million in 1974-75

Health

Hospitals development program. The 1973-74 Budget provided \$4.5 million towards the cost of hospital projects in the capital cities of New South Wales, Victoria and Queensland. In the event, grants were made to all States, and totalled \$2.4 million. In 1974-75 the Commonwealth Government provided \$30.3 million for development of public hospitals generally and other residential health institutions in the States.

Community health facilities and services. In the two years 1973-74 and 1974-75 grants totalling \$45.7 million were made to the States under the Community Health Program. The grants were directed to the development of community-based health services such as health centres and centres providing services for mental health, alcoholism, drug dependency, etc.

Tuberculosis control. Under the Tuberculosis Act 1948 the States have been reimbursed since 1949-50 for recurrent and capital expenditure incurred by the States in the provision of facilities for the diagnosis, treatment and control of tuberculosis. Payments in 1973-74 totalled \$11.7 million and in 1974-75, \$13.7 million.

Schools dental scheme. Payments of \$7.5 million in 1973-74 and \$18.6 million in 1974-75 were made to State Governments as part of an agreement to share the cost of providing an Australian-wide School Dental Service.

Social security and welfare

Welfare services for the aged. Under three Acts effective from 1969—the States Grants (Home Care) Act 1969, the States Grants (Paramedical Services) Act 1969 and the States Grants (Dwelling for Aged Pensioners) Acts of 1969 and 1974 grants are made to the States for certain services provided wholly or mainly to aged persons or pensioners—specifically: for home care services, paramedical services, senior citizens centres and provision of self-contained dwelling units.

Assistance for deserted wives. Grants of \$7.7 million and \$6.9 million were made to the States in 1973-74 and 1974-75 respectively for this purpose under the States Grants (Deserted Wives) Act 1968.

Employment. Two schemes, the Special Employment Grant scheme and the Regional Employment Development scheme, were operating in the States in 1974-75. Grants of \$40 million were provided to the States under the former scheme. Under the latter scheme, payments of \$8.5 million were made to State government departments and State government authorities, and \$43.6 million to local government authorities; in addition, \$8.4 million was paid to non-government bodies.

Culture and recreation. Grants to the States for cultural and recreational purposes were first made in 1973–74. Assistance in that year amounted to \$1.8 million, and totalled \$12.7 million in 1974–75.

Economic services—Transport

Roads. Commonwealth Government assistance to the States for roads for the five year period 1969-70 to 1973-74 was governed by arrangements embodied in the Commonwealth Aid Roads Act 1969. (For details see Year Book No. 60 page 582). New arrangements were introduced for 1974-75 to 1976-77. The new arrangements subsume general assistance previously given under the Commonwealth Aid Roads Act and assistance for specific roads or road projects (such as beef roads and the sealing of the Eyre Highway). Roads arrangements for 1974-75 to 1976-77 are embodied in three Acts—the National Roads Act 1974; the Roads Grants Act 1974 and the Transport (Planning and Research) Act 1974. Additional grants of \$30 million authorised by Appropriation Act (No. 4) 1974-75 were provided in 1974-75 as a short term measure to assist employment in the roads sector. For the years 1973-74 and 1974-75 total grants for roads were \$325.7 million and \$368.3 million respectively.

Urban public transport. A new program was initiated in 1973-74 under which the Commonwealth Government is meeting two thirds of the cost of approved urban public transport projects in the States. The States Grants (Urban Public Transport) Act 1974 and the Urban Public Transport (Research and Planning) Act 1974 together aurhorised the payment of grants of \$72.9 million to the States for projects approved in 1973-74 and the Appropriation (Urban Public Transport) Act 1974 appropriated a further \$66.1 million for projects approved to commence in 1974-75. However, owing to the lack of legislative authority, no disbursements were made until 1974-75 when \$45.3 million was paid.

Tasman Bridge disaster. Appropriation Act (No. 4) 1974-75 authorised assistance of \$6 million for various purposes connected with coping with the effects of the collapse of the Tasman Bridge in Tasmania.

Economic services—industry assistance and development

Eradication of bovine brucellosis and turberculosis. Total grants for expenditures on the eradication of bovine brucellosis and tuberculosis were \$5.1 million in 1973–74 and \$6.8 million in 1974–75.

Agricultural extension services grants. From 1948-49 annual grants have been made to the States to promote improved practices in the dairy industry and from 1952-53 further grants have been provided for expansion in the States of agricultural advisory services generally. Grants in 1973-74 totalled \$7.7 million and were \$8.7 million 1974-75.

Investigation and measurement of water resources. Under the States Grants (Water Resources) Acts of 1964, 1967 and 1970, grants totalling \$11.4 million were provided to the States for the purpose of accelerating programs of surface water measurement and investigation of underground water resources. The States Grants (Water Resources Measurement) Act 1973 provided for grants of up to \$6.9 million for the surface water measurement program and up to \$8.2 million for the investigation of underground water resources for the three-year period commencing 1 July 1973. The legislation was amended to become the States Grants (Water Resources Assessment) Act 1973-74 and to provide an additional \$0.8 million as grants for a two-year water quality assessment program.

Other purposes

Natural disasters. Payments to the States for natural disaster relief (drought, flood, bushfire cyclone, etc.) consist of financial assistance to alleviate personal hardship and distress and assistance with expenditure on other agreed relief and restoration measures when the expenditures are considered to be beyond the capacity of the State concerned to meet from its own resources. Assistance is provided by way of both grants and loans depending on the particular circumstances applying. Payments for natural disaster relief and restoration in 1973–74 totalled \$28.2 million (this included a loan component of \$3.7 million). In 1974–75, due to an unprecedented number of separate natural disasters in that year, payments to the States totalled \$53.2 million (the loan component was \$4.2 million).

Other specific purpose grants

Contributions under Financial Agreement. Details of the Financial Agreement between the Commonwealth Government and the States are given in Year Book No. 37, pages 685–90. Under this Agreement the Commonwealth Government undertook to contribute \$15,169,824 per annum towards interest payable on the State loan securities for a period of 58 years from 1 July 1927. This amount is distributed among the States as follows: New South Wales, \$5,834,822; Victoria, \$4,254,318; Queensland, \$2,192,470; South Australia, \$1,407,632; Western Australia, \$946,864; Tasmania, \$533,718. In addition, under the Financial Agreement the Commonwealth Government agreed to make certain contributions to the National Debt Sinking Fund for redemption of State loan securities. Details of these are given on pages 625–28 of this chapter.

Debt Charges Assistance. At the June 1970 Premiers' Conference, the Commonwealth Government undertook to make grants to meet the interest and sinking fund contributions on \$200 million of State debt in 1970-71, and an additional \$200 million each year in 1971-72 to 1974-75. The grants, which met the interest and sinking fund charges on a number of specified securities representing State debt, totalled \$172.6 million over this five-year period. The Commonwealth took over the \$1,000 million of State debt as at 30 June 1975.

Grants to Local Government authorities recommended by Grants Commission.

A system of grants to the States for on-passing to local government authorities on the advice of the Grants Commission commenced in 1975–75. The purpose of these grants is to reduce financial inequalities existing between local government authorities. A total of \$56.3 million was paid in 1974–75.

Advances to the States

The following tables show figures of advances to the States and repayments of advances. More detailed figures appear in *Public Authority Finance: Federal Authorities*.

FEDERAL AUTHORITIES: NET ADVANCES TO THE STATES 1974-75 (\$'000)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|---|---------|---|-------------|---------|---------|--------|-----------|
| Defence | 16,126 | 3,995 | 5,046 | 117 | 744 | 147 | 26.174 |
| Housing and community amenities . | 176,552 | 152,989 | 51,792 | 80,584 | 57,302 | 27,192 | 546,412 |
| Economic services— | - | • | - | | | | |
| Soil and water resources management | 1,872 | 2,337 | -28 | 2,500 | 313 | | 6,994 |
| Forest resources management | 2,100 | 889 | 2,340 | 341 | 685 | 769 | 7,124 |
| Assistance to agricultural and pastoral | , | | , | | | | • |
| industries | 9,567 | 8,458 | 1,199 | 1,900 | 3,150 | 813 | 25,087 |
| Electricity, gas, water supply | | ., | 34,308 | 4,400 | , , , | | 38,708 |
| Rail transport | 439 | -96 | -1,673 | - 580 | -1,476 | -83 | -3.468 |
| Sea transport | -162 | | -82 | | -151 | 1,228 | 833 |
| Other | | • | 570 | -1,875 | | ••• | -2,445 |
| Total economic services | 13,816 | 11,588 | 35,494 | 6,686 | 2,521 | 2,727 | 72,832 |
| Other purposes— | | | | | | | |
| | 176,900 | 148,382 | 88,358 | 79,784 | 52,732 | 45,985 | 592,141 |
| Special revenue assistance | · | -10,000 | | | | | -10,000 |
| Natural disaster relief | 1,079 | -256 | -855 | - 69 | | - 320 | -2,579 |
| Total other purposes | 175,826 | 138,126 | 87,503 | 79,715 | 52,732 | 45,665 | 579,562 |
| Total net advances | 382,317 | 306,698 | 179,835 | 167,103 | 113,299 | 75,731 | 1,224,981 |
| | | | | | | | |

FEDERAL AUTHORITES: ADVANCES TO THE STATES (\$'000)

| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---|--------|-------|------|---------|------------|-------------------|---------|-----------|
| | | _ | G | ROSS | | | | |
| Defence | | | | 9,227 | 7,034 | 6,163 | 7,766 | 26,805 |
| Housing and community amenities Economic services— | ٠ | ٠ | • | 141,819 | 12(a) | 6,610(<i>a</i>) | 263,634 | 565,585 |
| Assistance to agricultural and pasto | rali | ndust | ries | 10,907 | 33,797 | 41,501 | 27,363 | 28,477 |
| Other | | | | 16,853 | 11.009 | 29,636 | 37,316 | 57,119 |
| Other purposes— | • | • | • | 10,055 | 11,005 | 27,030 | 37,310 | 37,112 |
| State works programs | | | | 481,450 | 672 900(a) | 733,461(a) | 588 603 | 741,541 |
| Other | • | • | • | 4,793 | 17,839 | 15,000 | 3,872 | 3,663 |
| Office | • | • | • | 4,793 | 17,039 | 13,000 | 3,672 | 3,003 |
| Total gross advances . | | • | | 665,049 | 742,591 | 832,371 | 928,644 | 1,423,190 |
| | | I | REPA | YMENTS | | | | |
| Defence | | | | 466 | 512 | 555 | 592 | 631 |
| Housing and community amenities Economic services— | | • | • | 15,182 | 16,144 | 16,735 | 17,380 | 19,172 |
| Assistance to agricultural and pasto | ral ir | idust | ries | 1,855 | 1,947 | 2.052 | 3.970 | 3.391 |
| Other | | | | 5,313 | 5,833 | 7,904 | 11,089 | 9,373 |
| Other purposes— | | • | • | -, | -, | . , | , | -, |
| State works programs | | | | 115,067 | 123,280 | 132,195 | 140,783 | 149,400 |
| Other | • | • | • | 4,425 | 4,760 | 5,317 | 6,274 | 16,243 |
| | • | • | • | • | • | • | • | • |
| Total repayments | • | • | · | 142,308 | 152,476 | 164,758 | 180,089 | 198,209 |
| | | | | NET | | | | |
| Defence | | | | 8,761 | 6,522 | 5,608 | 7,174 | 26,174 |
| Housing and community amenities Economic services— | | | • | 126,637 | -16,132(a) | -10,125(a) | 246,254 | 546,412 |
| Assistance to agricultural and pasto | ral in | dust | ries | 9,052 | 31,850 | 39,449 | 23,393 | 25,087 |
| Other Other purposes— | • | • | • | 11,540 | 5,176 | 21,732 | 26,227 | 47,745 |
| State works programs | | | | 366,383 | 549,620 | 601,266 | 447,910 | 592,141 |
| Other | | | : | 368 | 13,079 | 9,683 | -2,402 | -12,580 |
| Total net advances . | | | | 522,741 | 590,115 | 667,613 | 748,555 | 1,224,981 |
| | | | | | | | | |

(a) In 1971-72 and 1972-73 funds for housing were provided under the State loan works program.

Minus sign (-) denotes excess of repayments.

Details of some of the more important State projects for which the Commonwealth Government is providing financial assistance by way of advances are set out below. (In some instances assistance is provided by way of both grants and advances. However, in the projects listed, advances represent the major component).

Housing

Housing Agreement. Under successive Commonwealth-State Housing Agreements operative between 1945-46 and 1970-71 such amounts as were nominated for housing by each State Government out of its total works and housing program approved by the loan Council became, formally, the borrowing program of the Commonwealth Government (or part thereof) and were provided by the Commonwealth Government as advances repayable over fifty-three years. Over most of this period, the advances have been provided at concessional rates of interest.

The Housing Agreement was not renewed on its expiry at the end of 1970-71. Instead, the Commonwealth and State Governments agreed on arrangements under which housing allocations would be met, in the same way as other expenditures by the States, out of their approved Loan

Council borrowing programs which were higher on that account, than they would otherwise have been. Since this meant the withdrawal of the former interest concession on funds for housing, specific revenue grants were introduced in lieu of that concession.

Under arrangements agreed to at the June 1973 Premiers' Conference, the Commonwealth Government entered into a new Agreement under which the States receive advances for welfare housing purposes during the five years 1973–74 to 1977–78, these advances to be outside, and in addition to, the State Loan Council programs. Advances made under the Agreement will be repaid over fifty-three years at concessional rates of interest. The arrangements for payment of specific revenue grants were revised with the reintroduction of direct interest concession.

The advances paid in 1973-74 totalled \$218.7 million. The advances made in 1974-75 comprised an initial allocation of \$235 million plus additional funds of \$150.4 million bringing advances for the year to \$385.4 million.

Housing for Servicemen. Advances to the States under the 1956-66 Housing Agreement ceased on 30 June 1971, and a new agreement with the States was signed. The Commonwealth-State Housing Agreement (Servicemen) 1972 provides for the erection of housing for servicemen by the States on generally the same terms and conditions as applied under the 1956-66 Housing Agreements with one essential difference, being that all the funds required for the erection of housing for servicemen are being provided as advances to the States outside the Loan Council arrangements. The advances are made at a rate of interest equal to the long term bond rate and are repayable over fifty-three years. Advances to the States in 1973-74 totalled \$7.8 million and in 1974-75 advances totalled \$26.8 million.

Urban and Regional Development

The Urban and Regional Development (Financial Assistance) Act 1974 authorises the provision of financial assistance to the States for various types of urban and regional development programs, covering growth centres, land commissions, area improvement and sewerage programs and for water supply, flood mitigation and the national estate. Grants and advances for these projects grew rapidly from \$55.8 million in 1973–74 to \$235.0 million in 1974–75.

Water Supply and Electricity

Gladstone Power Station. Under the Gladstone Power Station Agreement Act 1970 financial assistance is being provided to Queensland by way of loans to help finance the construction of a thermal power station at Gladstone in Central Queensland. Payments were \$26.6 million in 1973–74 and \$32.4 million in 1974–75.

Industry Assistance and Development

Softwood Forestry. Under the Softwood Forestry Agreements Act 1972 financial assistance is being provided (by way of loan) for a further program of increased planting of softwood forests. Advances totalled \$4.9 million in 1973–74 and \$7.1 million in 1974–75.

Rural Reconstruction. In accordance with an agreement reached between the Commonwealth Government and the States in 1971, and extended in 1973, assistance is made available under the States Grants (Rural Reconstruction) Act 1971, partly as grants and partly as loans, for the purpose of a rural reconstruction scheme. The Act provides for the scheme to operate to 30 June 1976.

Payments for rural reconstruction totalled \$35.8 million in 1973-74 of which \$8.9 million was provided by way of grants and \$26.8 million by way of loans. Payments for the following year were \$28.8 million, comprising \$7.2 million by way of grants and \$21.6 million by way of loans.

Dairy Adjustment Program. The original scheme for this purpose, which ran in parallel with the rural reconstruction scheme, was authorised by the Marginal Dairy Farms Agreement Act 1970, which provided for agreements to be made between the Commonwealth and State Governments to assist in the reconstruction of dairy farms.

In April 1974 the Commonwealth Government announced a two-year \$28 million dairy adjustment assistance scheme, subsequently embodied in the *Dairy Adjustment Act* 1974, under which the original scheme was continued and broadened. The new program operates to 30 June 1976. Assistance is provided by way of grants and advances. Payments under the program totalled \$1.1 million in 1973–74 (comprising \$0.6 million grants and \$0.5 million loans) and \$8.9 million in 1974–75 (comprising \$2.0 million grants and \$6.9 million loans).

Brigalow Lands Development Scheme. The Brigalow Lands Agreement Act 1962 approves an agreement with Queensland for the provision of financial assistance to that State for the development of 452,270 hectares in Fitzroy River Basin. The principal purpose of the assistance is to increase the production of beef cattle. The Act provides for assistance in the form of interest-bearing loans, subject to an overall limit of \$23 million, to finance expenditure incurred by the State on specified works during the thirteen years ending 30 June 1975.

Dartmouth Dam. Under the Dartmouth Reservoir Agreement Act 1970 the Commonwealth Government is providing financial assistance to New South Wales, Victoria and South Australia by way of loans towards their shares of the cost of constructing the Dartmouth Reservoir. Payments to the three States to 30 June 1975 amounted to \$12.4 million.

Main components of receipts

The main components of the receipts of Commonwealth Government authorites are taxation, income of public enterprises and other factor income transfers, and borrowing and financing transactions. Taxation constitutes by far the major source of receipts. Borrowing is now of minor significance so far as Federal authorities are concerned, although, as may be seen in later tables, it has become an increasingly significant source of funds for the States. The realisation of the increasing commitment of State revenues to the servicing of a rapidly growing debt burden led to the arrangement agreed to at the 1970 Premiers' Conference whereby the Commonwealth Government now makes interest-free capital grants to the States in lieu of moneys previously obtained by the States from borrowings (see page 574.)

In what follows, an account is given of the system of Commonwealth Government taxation, and some details are given of the current operations of Federal public enterprises. Borrowing and other financing activities of Federal authorities are dealt with for convenience in a later section relating to the debt of all public authorities.

Commonwealth Government taxation—summary

The following tables show Commonwealth Government taxation receipts classified by type of tax for the past five years, and the proportion of each type to total collections.

FEDERAL AUTHORITIES: TAXATION BY TYPE OF TAX
(\$'000)

| | _ | | | <u>``</u> | , 000) | | | | |
|--------------------------------|-------|---------|---------|-----------|-----------|-----------|-----------|------------|-------------|
| Type of tax | | | | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
| Taxes— | | | | | | | | | |
| Income taxes— | | | | | | | | | |
| Individuals | | | | | 3,174,983 | 3,764,686 | 4,084,492 | 5,485,143 | 7,708,552 |
| Companies(a). | | | | | 1,379,154 | 1,462,012 | 1,544,612 | 1,933,870 | 2,343,941 |
| Dividend (withholding) | | | | | 35,956 | 42,002 | 51,197 | 56,648 | 59,818 |
| Interest (withholding) | • | • | • | | 12,318 | 15,650 | 21,406 | 22,588 | 28,298 |
| Total income taxes | | | | | 4,602,411 | 5,284,350 | 5,701,707 | 7,498,249 | 10,140,610 |
| Estate duty | | | | | 70,101 | 67,258 | 66,408 | 66,018 | 63,787 |
| Gift duty | | | | | 7,795 | 8,530 | 6,941 | 9,725 | 16,204 |
| Rates on land | | | | | 2,094 | 5,403 | 6,266 | 7,361 | 8,782 |
| Customs duties | | | | | 465,989 | 468,732 | 513,381 | 604,443 | 840,515 |
| Excise duties | | | | | 1,053,613 | 1,213,056 | 1,268,289 | 1,554,581 | 1,728,621 |
| Sales tax | | | | | 632,537 | 680,772 | 764,868 | 968,725 | 1,154,266 |
| Primary production taxes | | | | | 26,922 | 28,445 | 34,846 | 64,441 | 143,428 |
| Broadcasting listeners' and | tele | evision | view | ers' | | | | | |
| licences (b) | | | | | 49,563 | 61,785 | 67.050 | 68,458 | 18,816 |
| Broadcast station licences | | | | | 341 | 474 | 491 | 591 | 713 |
| Television station licences | | | | | 1,647 | 1,967 | 2,024 | 2,410 | 2,819 |
| Stevedoring industry charge | | | | | 13,131 | 15,987 | 16,979 | 19,339 | 21,921 |
| Payroll tax | | | | | 247,657 | 91,037 | 6,291 | 7,606 | 15,523 |
| Other taxes | | • | • | ٠ | 4,209 | 5,285 | 6,703 | 9,330 | 10,332 |
| Total taxes | | • | | | 7,178,010 | 7,933,081 | 8,462,244 | 10,881,327 | 14,166,366 |
| Fees from regulatory services | | | | | 2,585 | 3,206 | 4,428 | 5,231 | 8,221 |
| Fines | | | | | 1,716 | 1,914 | 2,510 | 2,712 | 2,621 |
| Unfunded employee retiremen | it Co | ontribu | tion | | | | 945 | 27,248 | 34,513 |
| | | ٠ | | | 190 | 386 | 182 | 762 | 788 |
| Total taxation . | | | | | 7,182,501 | 7,938,587 | 8,470,309 | 10,917,279 | 14,212,481 |
| of which Taxation levied in | the | Territo | ories o | nlv | 7,874 | 15,696 | 19,826 | 25,392 | 35,079 |

⁽a) Excludes income tax paid by public enterprises: 1970-71, \$16.2m; 1971-72, \$16.5m; 1972-73, \$16.8m; 1973-74, \$19.9m; 1974-75, \$14.8m. (b) Abolished in September 1974.

FEDERAL AUTHORITIES: PROPORTION OF EACH TYPE OF TAXATION TO TOTAL TAXATION

(Per cent)

| | | | | _ | | _ | | | | | |
|--------------------|---------------|-------------|----------|----------|------|------|---------|---------|---------|---------|---------|
| Type of tax | | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| Income tax . | - | | <u> </u> | <u> </u> | | | 64.1 | 66.6 | 67.3 | 68.7 | 71.3 |
| Estate duty . | | | | | | | 1.0 | 0.8 | 0.8 | 0.6 | 0.4 |
| Gift duty . | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Rates on land | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 |
| Customs duties | | | | | | | 6.5 | 5.9 | 6.1 | 5.5 | 5.9 |
| Excise duties . | | | | | | | 14.7 | 15.3 | 15.0 | 14.2 | 12.2 |
| Sales tax . | | | | | | | 8.8 | 8.6 | 9.0 | 8.9 | 8.1 |
| Primary production | on ta | xes | | - | | | 0.4 | 0.4 | 0.4 | 0.6 | 1.0 |
| Broadcasting list | | | tele | vision | view | ers' | | | | | - |
| licences(a) . | | | | | | | 0.7 | 0.8 | 0.8 | 0.6 | 0.2 |
| Stevedoring indus | strv c | | | • | | · | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Pay-roll tax . | | | ÷ | · | Ċ | | 3.4 | 1.1 | 0.1 | 0.1 | 0.1 |
| Other taxes, fees, | fines | , etc. | · | ÷ | · | : | 0.1 | 0.1 | 0.1 | 0.4 | 0.4 |
| Total taxa | tion | | | | | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

(a) Abolished in September 1974.

Taxes on income

A description of the development of income taxes in Australia appeared in Year Book No. 35, page 926. Since July 1942 the Commonwealth Government, under the uniform tax arrangement, has been the only authority imposing taxes on income.

The laws dealing with the assessment and imposition of Income tax at 31 December 1975 were—Income Tax Assessment Act 1936, Income Tax Act 1975, Income Tax (Dividends and Interest Withholding Tax) Act 1974, Income Tax (Withholding Tax Recoupment) Act 1971, Income Tax (Bearer Debentures) Act 1971, Income Tax (Drought Bonds) Act 1969, and the Income Tax Regulations. The second-mentioned Act is an annual measure, and its primary purpose is to declare the rates of tax payable for the financial year.

Both individuals and companies are liable for income tax. Private companies are subject to tax on undistributed income in addition to the primary income tax levied on all companies.

The operation of the Income Tax Assessment Act 1936 is affected by the following Acts:

- (a) Taxation Administration Act 1953, which provides for the administration of certain Acts relating to taxation.
- (b) Income Tax (International Agreements) Act 1953 which gives the force of law to comprehensive double taxation agreements between the Australian Government and the Governments of the United Kingdom, the United States of America, Canada, New Zealand, Singapore, Japan and the Federal Republic of Germany. This Act also gives the force of law to an agreement with the Government of France for the avoidance of double taxation on income derived from international air transport. An agreement with Italy dealing with airline profits has been signed, but has not yet been given the force of law.
- (c) Diplomatic Privileges and Immunities Act 1967 which provides for the exemption from income tax of certain income of diplomatic representatives, their staff and families.
- (d) International Organisations (Privileges and Immunities) Act 1963, and Regulations made under that Act, which provide for exemption from income tax of certain income of international organisations and their officials.
- (e) Consular Privileges and Immunities Act 1972, which provides for the exemption from income tax of certain income of consular representatives, their staff and families.
- (f) Loan (Drought Bonds) Act 1969 which authorises the issue of drought bonds and empowers the Commissioner of Taxation to declare when drought bonds have become redeemable.

Individuals with incomes in excess of \$1,040, non-profit companies with total incomes in excess of \$416, and all other companies, partnerships and trusts deriving income are required to lodge returns of income each year.

Where applicable, income tax payable is assessed and assessment notices showing the amounts payable are issued during the year following the year of income. For individuals the approximate amount payable, however, has already been collected during the income year (from employees by deductions from salary or wages and from non-employees by a provisional tax). The amount shown on the assessment notice is therefore adjusted against the amount already paid and any difference either collected or refunded.

Taxes on income—individuals

Pay-as-you-earn-system

Salary and wage earners are subject to tax instalment deductions by employers according to a prescribed scale which shows the amount to be deducted according to income and number of dependants. Under the group employer scheme of deduction (covering most employers of more than ten persons), the amount deducted is required to be regularly remitted to the Australian Taxation Office

Not later than 14 July each year employers are required to supply each employee with a group certificate showing amount earned and deductions made during the year ended 30 June.

Under the stamp scheme used by employers other than group employers, a stamp deduction sheet in two parts is used. Each four weeks the employer purchases stamps (also in two parts) for the amount of deductions made each pay day and sticks one part on each half of the sheet. At the end of the year the employer gives the employee one half of the sheet and sends the other half to the Taxation Office. The employee's half is then used in the same way as a group certificate.

Individuals with taxable income of \$400 or more from other than salary or wages may be required to pay provisional tax in respect of that income. The provisional amount is intended as an approximation to the tax which will be assessed after the return of income for the current year has been lodged. It is ascertained by assuming that the income of the current year will be the same as that for the previous year and applying to that income the rates for the current year. The assessment notice shows the tax assessed on income from the previous year less any provisional tax already paid for that year and provisional tax payable for the current year.

Assessable income—individuals

Assessable income (from which deductions are made to arrive at taxable income) basically includes all receipts within the ordinary meaning of the word 'income', but excludes items of income that are specified as exempt. Assessable income specifically includes certain receipts such as casual profits arising from the sale of property held less than one year and profits arising from the sale of property acquired for the purpose of profit-making by sale regardless of the period the property is held before sale. The value to employees of allowances and benefits given by employers for services rendered is also specifically included in the assessable income of the employees. Receipts such as gifts (other than gratuities received by an employee in the course of employment), legacies, lottery wins and other receipts of capital generally do not form part of the assessable income.

Certain types of income are exempt from tax, including (i) war pensions, (ii) invalid pensions and child endowment and certain other payments under the Social Services Act 1947 and the Tuberculosis Act 1948, (iii) income from gold-mining and some other mining operations (iv) twenty per cent of certain mining profits, (v) income received from a scholarship, bursary or other educational allowance (vi) income of certain non-profit institutions and mutual income of some other organisations, (vii) income of specified superannuation funds, (viii) pay, allowances and bounties for part-time duty, and gratuity payable on a call out for continuous full-time service of members of the Defence Force Emergency Reserves, and (ix) pay allowances of members of the Defence Forces while allotted for duty in special areas.

Deductions

The taxable income to which the rates of tax are applied is arrived at by deducting from the assessable income any allowable deductions. Allowable deductions include:

General Deductions. Losses and outgoings (not of a capital nature) incurred during the year in gaining or producing assessable income, trading losses incurred in previous years, bad debts, and depreciation of plant. Primary producers may also be allowed deductions for amounts subscribed for drought bonds.

Living-away-from-home Allowance. Where the allowance is paid to an employee under any award, industrial agreement, etc.—

- (a) if it is received in cash and does not exceed \$7 per week, a deduction is allowable of the amount of the allowance, up to \$5 per week;
- (b) if it is received otherwise than in cash and exceeds a value of \$2 per week but does not exceed a value of \$5 per week, a deduction is allowable of the excess of that value over \$2 per week.

In any other case the deduction allowable is the amount which the Commissioner deems reasonable but may not exceed the total amount received less \$2 per week.

Subscriptions paid in respect of membership of any trade, business or professional association or union. (Deductions may be limited to \$42 in respect of subscriptions to any union, association, etc.)

Interest Payments on Housing Loans. A deduction is allowable for interest paid by a resident on a housing loan connected with a dwelling used during the whole or part of the year of income as the taxpayer's sole or principal residence. Where a loan is used to acquire vacant land the concession is not available for interest paid before the year of income in which a dwelling erected on the land is occupied by the taxpayer.

In allowing the concession the combined net income of a husband and wife is taken into account. Net income means total income from all sources less the expenses incurred in earning it, and includes exempt income other than child endowment or benefits paid by the Commonwealth Government for domiciliary nursing care. Taxpayers with combined net income of \$4,000 or less in a year of income may claim the whole of home loan interest payments. Where the combined net income is greater than \$4,000 the deduction is reduced by 1 per cent for each \$100 of the excess. No deduction is allowable where the combined net income is \$14,000 or more.

Gifts of \$2 and upwards to specified funds, authorities and institutions including public benevolent institutions, approved research institutions for scientific research, building funds for schools conducted by non-profit organisations, etc.

Rebates of Tax

From the gross amount of tax calculated by applying the relevant rate to the taxpayer's taxable income a deduction is made for any rebates allowable to the taxpayer.

Dependant, housekeeper and sole parent rebates. A concessional rebate of the relevant amount specified below for each dependant is allowable to a resident taxpayer if, during the whole of the year of income, the taxpayer is the sole contributor to the dependant's maintenance and that dependant does not have a separate net income in excess of \$150.

| Dependant | | | | | | | | | Maximum rebate |
|---------------------|--------|-------|--------|--------|--------|-------|----|--|-------------------|
| | | | | | | | | | \$ |
| Spouse, daughter- | house | keep | er . | | | | | | 400 |
| Parent or parent-in | n-law | | | | | | | | 400 |
| One child under 1 | 6 year | | | | | | | | 200 |
| Each other child u | ınder | 16 ye | ars, n | ot bei | ng a s | tuden | t. | | 150 |
| Student | | | | | ٠. | | | | 200 |
| Invalid relative | | | | | | | | | 200 |

If a person in one or other of these dependant categories is a dependant during part only of the year of income (such a person residing with the taxpayer is ordinarily regarded as a dependant throughout the period of residence) the maximum rebate is proportionately reduced.

Where a person has a separate net income in excess of \$150 while a dependant of a taxpayer the rebate otherwise allowable is reduced by \$1 for every \$4 by which the separate net income exceeds \$150, irrespective of the period over which the person has derived the income. When two or more people contribute to the maintenance of a person who is a dependant of both of them the rebate allowable is apportioned between the contributing taxpayers.

A concessional rebate of \$400 is allowable to a resident taxpayer in respect of a housekeeper who, during the whole of the year of income, is wholly engaged in keeping house in Australia for the taxpayer, and has the care of (a) a child or step-child of the taxpayer, less than 16 years of age; (b) any other child under 16 years of age or invalid relative in respect of whom the taxpayer is entitled to a rebate; or (c) the taxpayer's spouse if in receipt of an invalid pension under the Social Services Act.

If these conditions apply for only part of the year, a proportionate rebate may be allowed. Where the taxpayer is married, a rebate may be allowable for a housekeeper if the housekeeper is engaged in caring for an invalid spouse (see (c) above) or the Commissioner is of the opinion that, because of special circumstances it is just to allow a rebate. The rebate is not allowable in respect of any period during which the taxpayer is entitled to a deduction for a daughter-housekeeper.

A concessional rebate of \$200 is allowable to a *sole parent*, i.e., a resident single, widowed or divorced person who has the sole care of a child under sixteen years of age or a student (up to 25 years of age) in respect of whom a rebate is allowable, and is not entitled to a rebate for a housekeeper or daughter-housekeeper.

Concessional rebates

Rebates may be allowed to resident taxpayers in respect of the expenses listed below. The amount of the rebate is \$540 or 40 per cent of the total of the expenses in respect of which rebates are allowable, whichever is the greater, but the rebate cannot exceed the tax otherwise payable. As \$540 is 40 per cent of \$1,350 a taxpayer whose rebatable expenses do not exceed \$1,350 does not need to itemize those expenses in order to be allowed this rebate. The items of expenditure subject to rebate are as follows.

Medical, dental, optical, etc. expenses. Rebates are allowable in respect of medical, dental, optical and therapeutic treatment, expenses paid by the taxpayer less any amounts in respect of those expenses which are received or receivable by the taxpayer or any other person from a Government or friendly society or medical benefit fund. Included are amounts paid in respect of artificial limbs and eyes, hearing aids and medical and surgical appliances and the remuneration of an attendant of a person who is blind or permanently confined to a bed or invalid chair. Domiciliary nursing care benefits are to be disregarded in calculating the rebatable amount in respect of medical expenses.

Rebates in respect of the above medical, etc., expenses are allowable only for expenditure in respect of a resident taxpayer, spouse, children under 21 years of age or any other 'dependant' resident in Australia but not a 'housekeeper'.

Funeral, burial or cremation expenses. Rebates are allowable only in respect of the taxpayer's spouse, children under 21 years of age or any other 'dependant', but not a 'housekeeper', provided the dependant was a resident of Australia at the time of death. The amount of expenses allowable in respect of any one dependant is limited to \$100.

Payments to medical or hospital benefit funds. For the personal benefit of the taxpayer, his spouse or children.

Adopted children. Legal expenses and court costs of the kind normally incurred by a taxpayer in adopting a child.

Payments of life, sickness and accident insurance premiums and also payments to a Friendly Society, Superannuation, Sustentation or similar Fund. Amounts subject to rebate are limited to a total of \$1,200 in respect of such payments made on behalf of the taxpayer, his spouse or children. Where policies are taken out on or after 1 January 1973 or where the first premium of a policy was paid on or after that date rebates for premiums of such policies are not allowable if the benefits, other than death benefits, are payable within a period of 10 years of commencement of risk.

Education expenses not exceeding \$250 in respect of each child of the taxpayer or 'dependant' under 25 years of age receiving full-time education. Education expenses include expenditure for recognised school uniforms, on school fees, board and accommodation, text books, stationery, equipment and fares.

Self-education expenses paid by the taxpayer for or in connexion with a course of education undertaken by him for the purpose of gaining qualifications for use in carrying on a profession, business or trade or in the course of employment. The maximum amount subject to rebate is \$250.

Calls. One-third of the amount of calls paid by the taxpayer in the year of income on shares owned by him in a company carrying on as its principal business afforestation in Australia.

Rates and land taxes paid by the taxpayer for which he is personally liable. The maximum amount rebatable is \$300 and must be in respect of a sole or principal place of residence.

Other rebates

Zone allowance rebate. A separate rebate is allowable to resident taxpayers who have resided in Zone A or B (prescribed isolated areas) for more than one-half of the income year. The rebates are as follows.

- (a) Zone A: a rebate equal to the sum of \$216 and 25 per cent of the rebates allowable to the taxpayer for maintenance of dependants, for sole parent and housekeeper;
- (b) Zone B: a rebate equal to the sum of \$36 and 4 per cent of the rebates allowable to the taxpayer for maintenance of dependants, for sole parent and housekeeper.

Overseas service rebate. Separate rebates are also allowable to certain members of the Defence Force serving in prescribed overseas localities. Where the period of service is more than one-half of the year of income, the rebate is equal to the Zone A rebate. Where the period is less than one-half of the year of income, a proportionate part of the Zone A rebate is allowable.

Rebate for government and other loan interest. A rebate of tax may be allowed in respect of certain Government and other loan interest included in an individual's taxable income. Particulars are given at page 586.

Rebate for visiting experts. The law provides special tax concessions, in respect of remuneration earned by certain visiting experts during a visit to Australia, that are in the course of being phased out. These concessions include a rebate of tax which has the broad effect of reducing the Australian

tax payable on the visitor's Australian earnings to the amount that he would have had to pay in his home country if he had earned the remuneration there.

The provisions continue for income years up to an including the income year ending on 30 June 1978 in relation to a visit that commenced on or before 30 June 1973, or that commences after that date pursuant to a contract to make the visit entered into on or before 14 May 1973.

Effective exemption from tax

For the income years from 1963-64 to 1971-72 inclusive, the income of a taxpayer without dependants was exempt from income tax if it did not exceed \$416. For years 1972-73 to 1975-76 inclusive the income of a taxpayer without dependants was exempt from income tax if it does not exceed \$1,040. The effect of deductions or rebates for dependants was to exempt resident taxpayers up to the incomes shown in the samples hereunder.

RESIDENT TAXPAYERS: EFFECTIVE EXEMPTIONS FROM INCOME TAX

(\$)

| | | | Taxpayer with- | _ | | | | |
|-------------------------------|---|---|------------------|--------------|--------------|------------------------|------------------------|------------------|
| | | | | | Wife ar | ıd— | | |
| Income years ended June— | | | No dependants | Wife only | one child | two children | three children | four children |
| 1964 to 1967 | | | 416 | 702 728 | 884 | 1,014 | 1,144 | 1,274 |
| 1968 to 1972 1973 and 1974 | • | • | 416 1,040 | 1,404 | 936 1,664 | 1,09 2 1,872 | 1, 248 2,080 | 1,404 2,288 |
| 1975 | • | | 1,040 | 2,468 | 3,148 | 3,564 | 3,980 | 4,304 |
| 1976 | • | • | 2,518 | 4,000 | 4,740 | 5,228(a) | 5,800(b) | 6,371(c) |

⁽a) Neither of whom is a student child.

Rates of income tax on individuals

The tables on page 586 shows the rates of income tax for income years 1974-75 and 1975-76 Rates for income years 1954-55 to 1973-74 were published in Year Book No. 60 (page 590).

For primary producers the rate of income tax for the current year is, in general, determined by the average of the taxable incomes for the five years up to and including the current year. The application of the averaging provisions is limited to that part of the taxable income which does not exceed \$16,000. When the taxable income does exceed \$16,000, the balance is taxed at ordinary rates applicable to that part. When the taxable income is less than \$16,000, the rate of tax for averaging purposes is limited to the rate on a taxable income of \$16,000.

The taxable income, including abnormal receipts, of actors, artists, inventors, etc. is taxed at the rate appropriate to the normal taxable income plus one-third of the abnormal receipts.

Interest derived from bonds, etc., issued between 1 January 1940 and 31 October 1968 by the Commonwealth Government, or on certain State semi-government loans issued free of State income tax, is subject to a rebate of income tax of 10 cents for each \$1 of interest received. The rebate does not apply to interest received from bonds, etc., issued on or after 1 November 1968.

Indexation of the Personal Income Tax System

Automatic indexation of the personal income tax system, with effect from 1 July 1976, was announced on 20 May 1976. Legislation to that effect has now been passed.

The net tax payable by a taxpayer is determined (a) by calculating tax payable on his taxable income, according to the personal income tax rate schedule; and (b) deducting from that amount any rebates to which he is entitled.

Unless provision to the contrary is made, as taxable income increases the marginal and average tax rates corresponding to the taxable income also increase, because the income is then further up the progressive rate scale. Tax payable therefore becomes a larger percentage of taxable income than before. Any rebates fixed in money terms (e.g. dependants' rebates, and the general rebate) also become a smaller percentage of taxable income. For both reasons, net tax payable becomes a larger percentage of taxable income.

l

⁽b) Including one student child.

⁽c) Including two student children.

If taxable income increased at *the same rate* as the price level, the *before-tax real* income would remain unchanged. But in those circumstances, for the reasons noted above, net tax payable would become a larger percentage of taxable income, and the disposable *after-tax* income would decrease in *real* terms. Previously, there was no provision for automatic adjustments to the personal income tax system to prevent such effects of inflation. Adjustments could be made on a discretionary basis by amending the income tax law. The law now provides for indexation of the basic parts of the system; adjustments will now occur automatically each year *unless* the law is changed. The effects of indexation are reflected in pay-as-you-earn deductions from salaries and wages from 1 July 1976.

The indexation provisions of the law embrace the income brackets of the rate scale, the general rebate, the rebates for dependants (other than rebates for dependent children and students which have been abolished as part of the new family allowance arrangements), the housekeeper rebate and the sole parent rebate.

These are to be automatically adjusted each year for increases which have occurred in the Consumer Price Index. The average level of the index in the year ending with the March quarter immediately preceding the year of income is compared with its average level in the twelve months ending with the previous March quarter. Any part of the increase that is attributable to higher indirect taxes imposed by the Commonwealth Government is netted out for the purpose of indexing the personal income tax system. The adjustment factor for 1976–77 indexation purposes is 13 per cent, 1 percentage point less than the movement in the published CPI—the difference reflects the effects of increases in indirect taxes during the period over which the movement was measured.

The indexation arrangements have the following effects.

(a) The steps in the marginal tax rate schedule are widened in proportion to the price index as follows

| 1975–76 Scale Taxable income | 1976–77 Scale Taxable income | Marginal rate |
|---------------------------------|---------------------------------|---------------|
| \$ | \$ | cents |
| 1- 2,000 | 1- 2,260 | 20 |
| 2,000- 5,000 | 2,260- 5,650 | 27 |
| 5,000-10,000 | 5,650-11,300 | 35 |
| 10,000-15,000 | 11,300–16,950 | 45 |
| 15,000-20,000 | 16,950-22,600 | 55 |
| 20,000-25,000 | 22,600-28,250 | 60 |
| 25,000 and over | 28,250 and over | 65 |

- (b) These adjustments ensure that if a taxpayer's taxable income increases by the same percentage as the price index, the tax payable on it under the rate schedule will also increase by that same percentage (without indexation the tax payable would increase by more). That implies that tax payable remains the same in real terms.
- (c) The rebates which are a specified amount and are indexed also increase in amount by the same percentage as taxable income, and remain the same in real terms.
- (d) Both of these elements of the system also have the effect that a taxpayer on a fixed money income (which falls in real terms if prices rise) will have his tax reduced under indexation.

As already noted, the index applied relates to a past year. This is necessary for practical reasons. In any year there is therefore likely to be a difference between the price change experienced and that used for indexation (e.g. if prices were to rise by less than 13 per cent in 1976-77, tax indexation this year at that rate would tend to increase real after-tax incomes, not merely sustain them). Over a number of years the differences and their effects can be expected to average out to a substantial extent, with over-compensation for effects of price increases on the tax system occurring in some years, and under-compensation in other years.

In the 1976-77 income year, the rebate allowed for the maintenance of a spouse, daughter house-keeper or housekeeper, and the sole parent rebate, have been increased from \$400 to \$500 and \$200 to \$350, respectively. These increases were decided as a separate matter and are larger than the increases required by the strict application of the 13 per cent indexation factor.

FEDERAL INCOME TAX—INDIVIDUALS: GENERAL RATES, 1974–75 AND 1975–76 INCOME YEARS

| | | | | 1975–76(b) | | | |
|------|-------------------|-----------------------|----------------------|-------------------|-------------------|-----------------------|----------------------|
| ncom | ne | | | Total taxable | income | | |
| - | Column 2 | Tax on | Tax on each | Column 1 | Column 2 | Tax on | Tax on each |
| N | Not more than— | amount in column 1 | further \$ of income | Not less than— | Not more than— | amount in column 1 | further \$ of income |
| | \$ | \$ | cents | \$ | \$ | \$ | cents |
| | 1,000 | Nil | 1 | 1 | 2,000 | Nil | 20 |
| | 2,000 | 10 | 7 | 2,000 | 5,000 | 400 | 27 |
| | 3,000 | 80 | 14 | 5,000 | 10,000 | 1,210 | 35 |
| | 4,000 | 220 | 20 | 10,000 | 15,000 | 2,960 | 45 |
| | 5,000 | 420 | 26 | 15,000 | 20,000 | 5,210 | 55 |
| | 6,000 | 680 | 32 | 20,000 | 25,000 | 7,960 | 60 |
| | 7,000 | 1,000 | 38 | 25,000 | | 10,960 | 65 |
| | 8,000 | 1,380 | 44 | | | | |
| | 10,000 | 1,820 | 48 | | | | |
| | 12,000 | 2,780 | 52 | | | | |
| | 16,000 | 3,820 | 55 | | | | |
| | 20,000 | 6,020 | 60 | | | | |
| | 40,000 | 8,420 | 64 | | | | |
| | | 21,220 | 67 | | | | |

⁽a) With certain exceptions no tax is payable by an individual where the taxable income does not exceed \$1,040. In cases where the taxable income exceeds \$1,040 but does not exceed \$1,061 the tax is not to exceed 66 per cent of the excess of the taxable income over \$1,040. The tax so ascertained is reduced by any rebate or credit to which the taxpayer is entitled. (b) Tax is not payable by an individual unless the taxable income exceeds \$1,040. (Where it exceeds \$1,040 but does not exceed \$1,492 the tax is limited to 66 per cent of the excess). However, because of the general concessional rebate of \$540 allowable to all resident taxpayers, a resident taxpayer is not called on to pay tax unless the taxable income is at a higher level than \$1,041. A resident taxpayer who is not subject to averaging or to the notional income provisions does not pay tax unless the taxable income is \$2,519 or more. (The tax-free point would be different for those who are subject to the averaging or notional income provisions).

Income tax payable on specified incomes

The following table shows, for the income years 1967-68 to 1975-76, the actual income tax payable by taxpayers with various incomes and numbers of dependants. For 1974-75 allowance has been made for the low income family rebate and in 1975-76 the general concessional rebate of \$540 has been applied.

FEDERAL INCOME TAX PAYABLE ON SPECIFIED INDIVIDUAL INCOMES 1967-68 TO 1975-76 INCOME YEARS

(\$)

| | | | | 1967–68 | | | 1972–73 | | |
|--|---|---------------|------------|--|--|---|---|---|------------------------------------|
| | | | | to | | | and | | |
| Income(a) | | | | 1969–70 | 1970-71 | 1971–72 | 1973-74 | 1974–75 | 1975-76 |
| | | | | TAXPA | YER WITH | NO DEPENI | DANTS | | |
| | | | | | | | | | |
| \$ 1,000 | | | | 54.83 | 49.50 | 50.41 | | | |
| 3,000 | | | | 462.78 | 416.66 | 424.28 | 359.50 | 220.00 | 130.00 |
| 5,000 | | | | 1,140.10 | 1,026.53 | 1,045.32 | 917.30 | 680.00 | 670.00 |
| 7,000 | | | | 1,982.86 | 1,784.42 | 1,817.06 | 1,630.10 | 1,380.00 | 1,370.00 |
| 10,000 | | | | 3,487.56 | 3,139.06 | 3,196.48 | 2,888.70 | 2,780.00 | 2,420.00 |
| 15,000 | | | • | 6,395.48 | 5,910.66 | 6,018.78 | 5,490.70 | 5,470.00 | 4,670.00 |
| 20,000 | • | • | • | 9,465.36 | 9,047.16 | 9,212.66 | 8,448.70 | 8,420.00 | 7,420.00 |
| | | | | TAVDAV | ED WITH 1 | DEPENDENT | r wice | | |
| | | | | | LK WIIII | DEI ENDEN | WII L | | |
| 1,000 | | | | 23.27 | 21.12 | 21.51 | | | |
| 3,000 | • | | | 378.97 | 341.26 | 347.51 | 283.35 | 74.40 | |
| 5.000 | | · | | 1,020.95 | 919.18 | 936.00 | 801.00 | 534.40 | 270.00 |
| 7,000 | • | · | • | 1,842.77 | 1,658.41 | 1,688.75 | 1,492.14 | 1,234.40 | 970.00 |
| 10,000 | • | • | • | 3,322.21 | 2,990.35 | 3,045.06 | 2,728.17 | 2,605.28 | 2.020.00 |
| 15,000 | • | • | • | 6,210.32 | 5,730.29 | 5,835.11 | 5,291.95 | 5,269.80 | 4,270.00 |
| 20.000 | • | • | • | 9,272.20 | 8,847.60 | 9,009.45 | 8,229.20 | 8,201.60 | 7,020.00 |
| | | • | | | | | | | |
| | | | TAXP | AYER WITH | I DEPENDE | NT WIFE A | ND ONE C | HILD | |
| 1.000 | | | | 8.71 | 7.97 | 8.12 | | | |
| 3,000 | • | • | • | 326.54 | 294.15 | 299.54 | 232.97 | • | • • |
| 5,000 | • | • | • | 945.48 | 851.18 | 866.75 | 722.22 | 430.40 | 70.00 |
| 7,000 | • | • | • | 1,749.40 | 1,574.42 | 1,603.22 | 1,394.13 | 1,130.40 | 770.00 |
| 10,000 | • | • | • | 3,212.00 | 2.891.21 | 2,944.11 | 2,613.51 | 2,480.48 | 1,820.00 |
| | | • | • | | | | | | |
| | | | | A 118A 88 | 5 610 NS | 5 712 67 | 5 1/0 QQ | 5 126 80 | 4 070 00 |
| 15,000 20,000 | : | : | • | 6,086.88 9,143.43 | 5,610.05 8,714.57 | 5,712.67 8,873.98 | 5,149.99 8,072.42 | 5,126.80 8,045.60 | 4,070.00 6,820.00 |
| 15,000 | • | : | : (PAY) | 9,143.43 | 8,714.57 | | 8,072.42 | 8,045.60 | |
| 15,000 | • | : TAX | : XPAYI | 9,143.43 | 8,714.57 | 8,873.98 | 8,072.42 | 8,045.60 | |
| 1,000 | • | : TAX | : (PAY) | 9,143.43 ER WITH D | 8,714.57 EPENDENT | 8,873.98 WIFE AND | 8,072.42 TWO CHIL | 8,045.60 | |
| 15,000 20,000 | : | : TAX : | : (PAY) | 9,143.43 ER WITH D. 289.54 | 8,714.57 EPENDENT 260.84 | 8,873.98 WIFE AND 265.61 | 8,072.42 TWO CHIL 197.19 | 8,045.60 DREN(b) | 6,820.00 |
| 1,000 3,000 5,000 | : | : TAX | : (PAY) | 9,143.43 ER WITH D 289.54 888.86 | 8,714.57 EPENDENT 260.84 800.16 | 8,873.98 WIFE AND 265.61 814.80 | 8,072.42 TWO CHIL 197.19 659.20 | 8,045.60 DREN(b) 347.20 | 6,820.00 |
| 1,000 3,000 5,000 7,000 | : | : TAX | : (PAY) | 9,143.43 ER WITH D. 289.54 888.86 1,681.38 | 8,714.57 EPENDENT 260.84 800.16 1,513.28 | 8,873.98 WIFE AND 265.61 814.80 1,540.97 | 8,072.42 TWO CHIL 197.19 659.20 1,319.87 | 8,045.60 DREN(b) 347.20 1,047.20 | 6,820.00 |
| 1,000 3,000 5,000 7,000 10,000 | | : TAX | : (PAY) | 9,143.43 ER WITH D 289.54 888.86 1,681.38 3,129.32 | 8,714.57 EPENDENT 260.84 800.16 1,513.28 2,816.86 | 8,873.98 WIFE AND 265.61 814.80 1,540.97 2,868.39 | 8,072.42 TWO CHIL 197.19 659.20 1,319.87 2,521.78 | 8,045.60 DREN(b) 347.20 1,047.20 2,380.64 | 6,820.00 620.00 1,670.00 |
| 1,000 3,000 5,000 7,000 | | : TAX | : (PAY) | 9,143.43 ER WITH D. 289.54 888.86 1,681.38 | 8,714.57 EPENDENT 260.84 800.16 1,513.28 | 8,873.98 WIFE AND 265.61 814.80 1,540.97 | 8,072.42 TWO CHIL 197.19 659.20 1,319.87 | 8,045.60 DREN(b) 347.20 1,047.20 | 6,820.00 |

⁽a) Income remaining after allowing all deductions other than deductions for dependants. (b) Neither of whom is a student.

Income tax assessments-Individuals

The following table shows for the 1973-74 income year the number of taxpayers, income, and net income tax assessed for individuals.

FEDERAL INCOME TAX ASSESSMENTS(a): TAXABLE INDIVIDUALS BY GRADE OF NET INCOME AND BY OFFICE OF ASSESSMENT

(Income derived in the year 1973-74)

| Grade of net income(b) and office | Taxpayers | | | Net | Total taxable | Net income tax |
|--------------------------------------|------------------------|------------------|--------------------|------------------------|--------------------|--------------------|
| of assessment | Males | Females | Total | income(b) | income(c) | assessed |
| \$ \$ | No. | No. | No. | \$'000 | \$`000 | \$.000 |
| Under 1,200 . | . 21,886 | 38,458 | 60,344 | 64,976 | 63,561 | 2,235 |
| 1,200- 1,399 . | . 30,564 | 68,312 | 98,876 | 128,611 | 122,290 | 6,271 |
| 1,400- 1,599 . | . 32,873 | 73,172 | 106,045 | 159,161 | 149,097 | 8,957 |
| 1,600- 1,799 . | . 35,285 | 77,672 | 112,957 | 192,032 | 176,939 | 11,877 |
| 1,800 1,999 . | . 39,531 | 79,925 | 119,456 | 227,019 | 207,565 | 15,134 |
| 2,000 2,199 . | . 47,585 | 86,462 | 134,047 | 281,526 | 257,156 | 19,219 |
| 2,200- 2,399 . | . 52,779 | 88,818 | 141,597 | 325,679 | 295,578 | 23,572 |
| 2,400- 2,599 . | . 53,952 | 87,408 | 141,360 | 3 5 3,266 | 318,713 | 27,729 |
| 2,600- 2,799 . | . 55,751 | 87,593 | 143,344 | 386,883 | 348,126 | 32,925 |
| 2,800- 2,999 . | . 56,737 | 88,654 | 145,391 | 421,578 | 378,462 | 38,411 |
| 3,000- 3,199 . | . 59,084 | 89,983 | 149,067 | 462,035 | 414,382 | 44,994 |
| 3,200- 3,399 . | . 62,538 | 91,080 | 153,618 | 506,975 | 453,660 | 52,222 |
| 3,400- 3,599 . | . 66,336 | 92,514 | 158,850 | 555,911 | 496,891 | 60,388 |
| 3,600- 3,799 . | . 70,299 | 90,212 | 160,511 | 593,822 | 529,210 | 67,697 |
| | . 76,192 | 91,375 | 167,567 | 653,585 | 581,414 | 78,172 |
| 4,000- 4,249 . | . 108,138 | 104,654 | 212,792 | 877,617 | 774,375 | 108,845 |
| 4,250- 4,499 . | . 119,771 | 90,439 | 210,210 | 919,481 | 803,909 | 118,155 |
| | . 129,965 | 74,688 | 204,653 | 946,244 | 818,886 | 125,221 |
| 4,750- 4,999 . | . 137,519 | 60,808 | 198,327 | 966,564 | 828,276 | 131,242 |
| | . 143,796 | 51,098 | 194,894 | 998,674 | 848,726 | 139,011 |
| 5,250- 5,499 . 5,500- 5,749 . | . 148,683 | 42,456 | 191,139 | 1,027,219 | 866,700 878,787 | 146,663 153,342 |
| 5,750- 5,999 . | . 150,033 | 36,288 | 186,321 | 1,047,731 | 859,922 | 154,368 |
| C 000 C 100 | . 146,463 . 271,997 | 29,187 46,920 | 175,650 318,917 | 1,031,643 1,991,059 | 1,651,791 | 309,221 |
| C 500 C 000 | 227 400 | 35,542 | 272,942 | 1,840,098 | 1,519,188 | 299,369 |
| 7,000 7,400 | 105 111 | 27,252 | 224,913 | 1,628,436 | 1,338,970 | 276,240 |
| 7,500- 7,999 | . 197,661 | 21,743 | 184,126 | 1,424,961 | 1,168,210 | 251,450 |
| 8,000- 8,999 . | . 232,460 | 29,996 | 262,456 | 2,220,347 | 1,817,063 | 412,178 |
| 9,000- 9,999 . | . 150,278 | 19,754 | 170,032 | 1,608,644 | 1,316,106 | 318,122 |
| 10,000–14,999 | . 256,120 | 39,612 | 295,732 | 3,486,192 | 2,898,365 | 795,326 |
| 15,000-19,999 . | . 60,203 | 11,312 | 71,515 | 1,218,061 | 1.049,342 | 352,614 |
| 20,000–29,999 . | . 31,781 | 5,716 | 37,497 | 887,061 | 788,145 | 329,827 |
| 30,000-49,999 | . 10,270 | 1,755 | 12,025 | 441,421 | 406,109 | 204,826 |
| 50,000 and over . | . 2,379 | 454 | 2,833 | 204,975 | 192,408 | 111,915 |
| Office— | | | · | | | |
| New South Wales | . 1,227,016 | 707,402 | 1,934,418 | 10,848,470 | 9,278,825 | 1,907,813 |
| Victoria | . 955,347 | 570,763 | 1,526,110 | 8,533,871 | 7,249,157 | 1,500,725 |
| Queensland . | 491,691 | 253,442 | 745,133 | 4,027,010 | 3,410,152 | 685,855 |
| South Australia | . 332,964 | 186,038 | 519,002 | 2,768,543 | 2,365,730 | 460,557 |
| Western Australia | . 287,443 | 155,832 | 443,275 | 2,445,092 | 2,091,593 | 416,919 |
| Tasmania . | . 103,903 | 50,815 | 154,718 | 817,976 | 688,577 | 134,109 |
| Northern Territory | . 16,929 | 8,818 | 25,747 | 158,347 | 123,386 | 25,424 |
| Australian Capital | • | • | | | | |
| Territory . | . 43,399 | 28,202 | 71,601 | 480,176 | 410,904 | 96,336 |
| Total . | . 3,458,692 | 1,961,312 | 5,420,004 | 30,079,486 | 25,618,324 | 5,227,738 |

⁽a) Assessments in respect of 1973-74 incomes. Assessments issued after that date are not included. 'Total assessable income less total deductions for expenses incurred in gaining assessable income', is the income remaining after deductions from assessable income all allowable deductions.

⁽b) Net income is (c) Taxable income

Details of the number of individual taxpayers and net income tax assessed by grades of income for the income years 1971-72 to 1973-74 are shown in the following table.

FEDERAL INCOME TAX ASSESSMENTS: TAXABLE INDIVIDUALS, BY GRADE OF INCOME(a) (INCOME YEARS 1971-72 TO 1973-74)

| | 1971-72 | 1 | | 1972-73 | | 1973-74 | |
|---|--|---|---|---|---|--|---|
| Grade of net income(a) | Tax- payers | Net income tax assessed | Grade of net income(a) | Tax- payers | Net income tax assessed | Tax- payers | Net income tax assessed |
| \$ \$ 1 - 599 . 800 - 799 . 800 - 999 . 1,000 - 1,199 . 1,200 - 1,399 . 1,400 - 1,599 . 1,600 - 1,799 . 1,800 - 1,999 . 2,200 - 2,199 . 2,200 - 2,399 . 2,400 - 2,599 . 2,600 - 2,799 . 2,800 - 2,999 . 3,000 - 3,999 . 4,000 - 5,999 . 6,000 - 7,999 . 8,000 - 9,999 . 10,000 - 19,999 . 20,000 - 29,999 . 30,000 and over | No. 115,399 149,385 147,070 150,023 156,698 169,285 174,363 182,829 196,679 201,678 207,233 208,867 208,071 1,058,369 1,474,459 531,801 184,274 153,845 15,237 5,866 | \$'000 1,098 2,881 4,974 7,702 11,072 15,415 19,975 26,023 34,039 41,762 50,270 57,831 64,885 436,928 1,022,314 635,253 334,734 532,945 146,456 137,168 | \$ Under 1,200 1,200 1,200 1,399 1,400 1,399 1,400 1,599 1,600 1,799 1,800 1,999 2,000 2,199 2,200 2,399 2,400 2,799 2,800 2,999 3,000 3,199 3,200 3,399 3,400 3,799 3,800 3,799 3,800 3,999 4,000 4,249 4,250 4,499 4,500 4,749 4,750 4,999 5,250 5,499 5,500 5,999 6,000 6,999 7,000 7,999 9,000 9,999 10,000 1,99 | No. 60,889 107,348 128,419 139,931 144,579 154,334 162,679 168,304 177,015 180,490 186,795 190,587 193,857 193,857 193,857 193,857 189,861 233,341 225,352 218,251 206,590 191,094 175,858 158,623 139,807 232,368 184,468 184,468 139,415 107,151 107,151 107,151 107,153 119,616 23,538 119,418 107,153 119,616 1150,535 1150,535 166,167 43,810 23,538 7,677 | \$'000 2,212 6,777 10,393 14,063 17,920 23,147 29,125 35,129 42,419 48,868 56,457 66,3716 70,987 76,839 81,290 108,430 114,390 120,957 124,494 124,190 120,957 114,676 210,342 189,487 160,778 138,036 437,542 214,125 204,238 124,125 204,238 | No. 60,344 98,876 106,045 112,957 119,456 134,047 141,360 143,344 145,391 149,067 153,618 158,850 160,511 167,567 212,792 210,210 204,653 178,327 194,894 191,139 186,321 175,6650 318,917 272,942 224,913 184,126 170,032 295,732 71,515 37,497 | \$'000 2,235 6,271 8,957 11,877 15,134 19,219 23,572 27,729 38,411 44,99 52,222 60,381 67,697 78,17: 108,844 118,15: 125,22 131,244 139,01 146,66 153,344 154,36 154 |
| Total . | . 5,691,431 | 3,583,725 | 50,000 and over | . 1,862 . 5,076,252 | 77,902 3,681,326 | 2,833 5,420,004 | 111,91 5,227,73 |

⁽a) Net income is 'Total assessable income less total deductions for expenses incurred in gaining that income'.

Partnerships and trusts

Income tax returns are required to be lodged on behalf of partnerships and trusts which, as partnerships and trusts, are not required to pay tax except in certain specified circumstances when they may be assessed as individuals. In general, the net income remaining, after allowing all deductions including expenditure incurred in gaining the income, is distributed to the partners or beneficiaries concerned and is assessable for tax in the respective individual returns.

The following table shows for the 1973-74 income year numbers, total business income and net income of partnerships and trusts. Greater detail is published in the statistical supplement to the annual report of the Commissioner of Taxation and the report itself.

PARTNERSHIPS AND TRUSTS—INCOME YEAR 1973-74

| Item | | | Partnerships | Trusts | Total |
|--|---|----------------------|------------------------|--------------------|-------------------------|
| Number | | | 447,461 | 120,618 | 568,079 |
| Total business income Net income(a) | : | . \$'000 . \$'000 | 9,804,313 3,813,179 | 211,902 388,053 | 10,016,215 4,201,232 |

⁽a) Total net income adjusted by subtraction of loss.

Taxes on income-companies

For taxation purposes companies are divided into two main groups—private and public. Broadly, a private company is defined as a company in which all the issued shares are held by not more than twenty persons, or which is capable of being controlled by not more than seven persons, and which is not a company in which the public is substantially interested, or is a subsidiary of a public company. All other companies are regarded as public companies. Both private and public companies pay primary tax assessed on a taxable income ascertained on the same principles as for individuals.

Dividends received are assessable income; resident companies, however, receive a rebate at the average rate on the amount of dividends included in the taxable income, while this rebate is not allowed to non-resident companies.

A private company is liable to pay additional tax upon the amount, if any, by which the dividends paid by the company within a prescribed period fall short of sufficient distribution as defined.

Rates of tax. The rates of primary income tax for all companies and additional tax for private companies applicable to income years 1959-60 to 1972-73 are shown in the following table.

RATES OF INCOME TAX: COMPANIES, 1959-60 TO 1972-73 INCOME YEARS
(Cents per \$)

| | | Resident p | rivate com | pany | Resident company | | Non resid | Non resident company | | | | | |
|--|---|--|--|-------------------------------------|--|--|--|--|--|--------------------------------------|--|--|--|
| On taxable income | | Additional | On taxab | le income | On divide | nds income | On other income | | | | | | |
| Income years ended June | | Up to \$10,000 | On re- mainder | tax on un- distributed income | Up to \$10,000 | On re- mainder | Up to \$10,000 | On re- mainder | Up to \$10,000 | On re- mainder | | | |
| 1960 to 1963 1964 to 1967 1968 and 1969 1970 . 1971 and 1972 1973 . | : | 25 27.5 30 32.5 37.5 45.0 | 35 37.5 40 42.5 42.5 45.0 | 50 50 50 50 50 50 | 35 37.5 40 42.5 47.5 47.5 | 40 42.5 45 47.5 47.5 47.5 | 30 32.5 35 37.5 42.5 47.5 | 40 42.5 45 47.5 47.5 47.5 | 35 37.5 40 42.5 47.5 47.5 | 40.5 42.5 47.5 47.5 47.5 | | | |

⁽a) Excludes co-operative, non-profit and life insurance for which the rates of tax (in cents per \$) for 1972-73 income year were:

| | | | | Taxable ii | ncome |
|---|--------|---|---|----------------------|----------------------|
| Type of company | | | | Up 10 \$10,000 | On remainder |
| Co-operative Non-profit—Friendly societies' dispen | saries | : | : | 42.5 37.5 42.5 | 47.5 37.5 47.5 |
| Mutual life insurance Other life insurance—Mutual income Other income | : | : | : | 47.5 47.5 47.5 | 47.5 47.5 47.5 |

For the income year ended 30 June 1974 the rate for companies other than friendly society dispensaries was 45 per cent, except that for the first \$10,000 of taxable income of co-operative and non-profit companies (other than friendly society dispensaries) the rate was 42.5 per cent. The rate for friendly society dispensaries was 37.5 per cent.

For the income year ended 30 June 1975 the rate for companies other than friendly society dispensaries was 42.5 per cent and for friendly society dispensaries 37.5 per cent.

A non-profit company is not liable to income tax unless the taxable income exceeds \$416. Where the non-profit company is a friendly society dispensary and the taxable income does not exceed \$1,664 the maximum amount payable is one-half of the excess over \$416 less any rebate or credit to which the company is entitled. Where the taxable income of a non-profit company other than a friendly society dispensary does not exceed \$1,830, the tax payable by the company is limited to 55 per cent of the amount by which the taxable income exceeds \$416 less any rebate or credit to which the company is entitled. Other companies are assessed for income tax if the taxable income is \$1 or more.

Details in respect of company income tax assessments for the 1973-74 income year are shown in the following table.

FEDERAL INCOME TAX ASSESSMENTS: RESIDENT AND NON-RESIDENT COMPANIES BY GRADE OF INCOME AND OFFICE OF ASSESSMENT

(Income derived in the year 1973-74)

| | Taxable | | | Non-taxab | le | |
|--|----------------|--------------------------|--|----------------|-----------------------------|---------|
| Grade of taxable income(a) (\$) and office of assessment | Com- panies | Taxable income (a) | Net in- come tax assessed (b) | Com- panies | Taxable income (a)(c) | Loss(d) |
| | No. | \$'000 | \$'000 | No. | \$'000 | \$'000 |
| Loss for year | • | | | 60,963 | | 574,600 |
| Nil | | | | 30,524 | | |
| 1- 1,999 . | . 36,617 | 21,445 | 9,048 | 5,064 | 3,727 | |
| 2,000- 9,999 . | . 30,751 | 162,167 | 65,945 | 5,928 | 29,948 | |
| 10,000- 19,999 . | . 14,795 | 210,993 | 85,597 | 2,026 | 28,634 | |
| 20,000- 39,999 . | . 10,446 | 293,353 | 118,753 | 1,185 | 33,054 | |
| 40,000- 99,999 . | . 7,624 | 470,974 | 189,926 | 662 | 40,517 | |
| 100,000- 199,999 . | . 2,891 | 404,720 | 159,263 | 174 | 24,134 | |
| 200,000- 399,999 . | . 1,620 | 451,798 | 174,384 | 103 | 29,057 | |
| 400,000- 999,999 . | . 1,174 | 725,995 | 273,168 | 78 | 48,346 | |
| 1,000,000-1,999,999 . | . 443 | 617,307 | 218,485 | 16 | 22,038 | |
| 2,000,000 and over . | . 457 | 3,422,386 | 1,075,830 | 12 | 59,866 | •• |
| New South Wales . | . 46,150 | 2,289,408 | 831,231 | 50,464 | 127,198 | 299,291 |
| Victoria | . 29,765 | 3,037,710 | 996,538 | 22.922 | 120,197 | 141,870 |
| Queensland | . 11,701 | 673,409 | 243,219 | 11,387 | 21,936 | 73,507 |
| South Australia | . 8,987 | 364,733 | 142,512 | 9,079 | 19,051 | 19,219 |
| Western Australia . | . 6,250 | 284,185 | 115,305 | 7,637 | 7,424 | 25,376 |
| Tasmania | . 1,948 | 74,399 | 27,755 | 2,084 | 2,622 | 6,315 |
| Northern Territory . | . 472 | 9,538 | 3,936 | 465 | 740 | 3,429 |
| Australian Capital Territory | y 1,546 | 47,754 | 9,901 | 2,697 | 20,154 | 5,595 |
| Total | . 106,819 | 6,781,137 | 2,370,397 | 106,735 | 319,323 | 574,600 |

 ⁽a) Taxable income is the income remaining after deducting from assessable income all allowable deductions.
 (b) Excludes additional tax on the undistributed income of private companies.
 (c) Net tax assessed is nil because of rebates.
 (d) Not included in the figures shown for taxable income.

Yield of income taxes

Income taxes collected. The following table shows the net amounts of taxes collected and the proportions of the several components over recent years.

FEDERAL INCOME TAXES COLLECTED: COLLECTION YEARS 1970-71 TO 1974-75

| Source of income tax | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|----------------------------|------|-----|-----------|----------------|---------------------------------------|-----------|------------|
| | | NET | AMOUNTS | COLLECTE | O (\$'000) | | |
| Individuals— | | | | | | | |
| Instalments-salaries and w | ages | | 2,432,062 | 2,888,547 | 3,160,681 | 4,238,391 | 6,071,293 |
| Other payments | | | 746,075 | 880,037 | 928,797 | 1,251,872 | 1,642,726 |
| Companies | | | 1,395,389 | 1,477,482 | 1,561,287 | 1,953,927 | 2,358,809 |
| Withholding tax-Dividend | | | 35,956 | 42,002 | 51,197 | 56,648 | 59,818 |
| Interest | • | | 12,318 | 15,650 | 21,406 | 22,588 | 28,298 |
| Total | | | 4,621,800 | 5,303,717 | 5,723,369 | 7,523,426 | 10,160,944 |
| | | | PERCEN | NTAGES | · · · · · · · · · · · · · · · · · · · | | |
| Individuals— | | | | | | | |
| Instalments—salaries and v | vage | s. | 52.62 | 54.46 | 55.22 | 56.34 | 59.75 |
| Other payments | | | 16.14 | 16. 5 9 | 16.23 | 16.64 | 16.17 |
| Companies | | | 30.19 | 27.86 | 27.28 | 25.97 | 23.2 |
| Withholding tax-Dividend | | | 0.78 | 0.79 | 0.89 | 0.75 | 0.59 |
| Interest | • | • | 0.27 | 0.30 | 0.37 | 0.30 | 0.28 |
| Total | | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Refunds of revenue. Income tax collections, as previously shown, are net amounts after refunds of revenue made in the course of the year. Refunds are of two types—those charged to special appropriations under authority of the Income Tax Assessment Act and those charged to special appropriations under authority of the Audit Act. Income tax instalment refunds, by far the greatest part of income tax refunds, are made when the instalments deducted during the year exceed the tax assessed on incomes for that year. Refunds made from special appropriations under section 37A of the Audit Act include refunds of moneys paid to the revenue in error, refunds of tax overpaid, refunds due to the amendment of assessments, etc. Refunds of income tax to individuals during the collection years 1970–71 to 1974–75 were: 1970–71, \$594,748,000; 1971–72, \$697,057,000; 1972–73, \$723,226,000; 1973–74, \$862,760,000, and 1974–75, \$967,924,000.

Estate duty

Under the Estate Duty Assessment Act 1914 estate duty is assessed on the net value of the estate less a statutory exemption determined in accordance with the following formula: (a) where the whole of the estate passes to the widow, widower, children (including adopted children, stepchildren and ex-nuptial children) or grandchildren of the deceased person: (i) for qualifying estates of de ceased primary producers—\$48,000; (ii) for other estates—\$40,000; decreasing by \$2 for every \$8 by which the value of the estate exceeds \$48,000 or \$40,000 as the case may be; (b) where no part of the estate passes to the relatives mentioned in (a): (i) for qualifying estates of deceased primary producers—\$24,000; (ii) for other estates—\$20,000; decreasing by \$2 for every \$8 by which the value of the estate exceeds \$24,000 or \$20,000 as the case may be; and (c) where part only of the estate passes to the relatives mentioned in (a): an amount calculated proportionately under (a) and (b) above. For estates of persons domiciled in Australia at the time of death, and who died after 30 April 1974, a deduction of up to \$35,000 may also be allowed where an interest in the matrimonial home passes to a surviving spouse.

As a general rule, the estate of a deceased primary producer would qualify for the higher level of statutory exemption if: (i) the death occurred on or after 25 September 1969; (ii) the deceased person was domiciled in Australia at the time of his death; (iii) during the period of five complete income tax years preceding death, more than one-half of the deceased person's gross income was derived from the carrying on by him of a primary production business in Australia; and (iv) the gross value of rural property in Australia—being land and certain other types of assets used in a primary production business such as livestock and agricultural plant—exceeded the gross value of all other property in the estate. In specified circumstances, dividends and certain other receipts from a family proprietary company in which a deceased person held shares may be treated as income derived from the carrying on by him of a primary production business and the value of the shares may be included, either wholly or in part, in the value of the estate's rural property.

Special exemptions are also allowed in respect of estates of defence personnel who die on active service or within three years of termination of their active service from injuries received or diseases contracted while on active service, and prescribed personal property held in Australia by certain United States personnel who are in Australia solely for purposes connected with projects of the United States Government.

A 'quick succession' rebate of estate duty may be allowable if the deceased was a beneficiary in an estate (upon which duty is payable or has been paid) of a person who pre-deceased him by not more than five years.

A 'rural property' rebate of part of any estate duty attributable to rural property included in the estate of a deceased primary producer may be allowable if the value of the estate (before deducting any statutory exemption) is less than \$250,000 and certain conditions are satisfied. The conditions are the same as those governing entitlements to higher levels of statutory exemptions for estates of deceased primary producers, as outlined in the explanations relating to statutory exemptions. If the value of a qualifying estate does not exceed \$140,000, the rebate is fifty per cent of any duty attributable to rural property in Australia. Rates of rebate gradually reducing from fifty per cent are applicable to estates having net values between \$140,000 and \$250,000.

The rates of duty have remained unchanged since 1941 and increase as the value of the estate for duty increases, as follows: does not exceed \$20,000, 3 per cent; \$20,001 to \$40,000, 3 per cent to 6 per cent; \$40,001 to \$240,000, 6 per cent to 26 per cent; \$240,001 to \$1,000,000, 26 per cent to 27.9 per cent; \$1,000,000 or more, 27.9 per cent.

Particulars of the number and value of dutiable estates and duty assessed, for recent assessment years 1970-71 to 1974-75 are given in the following table.

| | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-------------------------|--------|--------|---------|-----------|---------|---------|-----------|
| Estates | | No. | 16,502 | 18,505 | 16,734 | 12,052 | 13,621 |
| Gross value as assessed | | \$.000 | 993,610 | 1,045,418 | 969,778 | 964,804 | 1,183,913 |
| Deductions(a) . | | ,, | 168,396 | 192,017 | 176,324 | 194,159 | 242,912 |
| Statutory exemption | | ,, | 179,419 | 209,377 | 202,793 | 238,212 | 318,706 |
| Dutiable value | | " | 645,791 | 644.024 | 590,660 | 532,433 | 622,295 |
| Net duty assessed. | | ,, | .80,551 | 71,750 | 64,366 | 65,981 | 80,560 |
| Average dutiable value | | ″s | 39,134 | 34,803 | 35,297 | 44,178 | 45,686 |
| Average duty assessed p | estate | | 4,881 | 3,877 | 3,846 | 5,475 | 5,914 |

FEDERAL ESTATE DUTY ASSESSMENTS

Gift duty

The Gift Duty Act 1941 and the Gift Duty Assessment Act 1941 impose a gift duty on gifts which are defined as dispositions of property made otherwise than by will, without adequate consideration in money or money's worth. There is a liability on both the donor and the donee to furnish a return, and both are jointly and severally liable for payment of the duty. However, if a return is furnished by the donor, the donee is relieved of this obligation.

Certain exemptions from duty are provided, the more important being: payments to an employees' superannuation or like fund; retiring allowances or gratuities granted to employees; gifts to organisations not carried on for the profit of any individual; gifts to the Commonwealth Government or a State; and small gifts not exceeding \$100.

The rate of gift duty applicable to any particular gifts is fixed by reference to the total value of all gifts made by the same donor within the period of eighteen months before and eighteen months after the time of making that gift. Where the total value of all gifts as defined does not exceed \$10,000 no duty is payable. The present rates of duty are (a) \$10,001 to \$20,000, 3 per cent provided that the gift duty payable shall not exceed one half of the amount by which the gift exceeds \$10,000 or a proportionate amount where more than one gift is involved; (b) \$20,001 to \$40,000, 3 per cent to 6 per cent; (c) \$40,001 to \$240,000, 6 per cent to 26 per cent; (d) \$240,001 to \$1,000,000 and over, 26 per cent to 27.9 per cent.

Particulars of the number of gift duty assessments, value of gifts as assessed and duty assessed for recent assessment years are given in the following table.

⁽a) Debts, Exempt Estate and State Probate Succession Duties.

PUBLIC FINANCE

FEDERAL GIFT DUTY ASSESSMENTS

| | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974–75 |
|------------------------------------|---|---|---|--------|------------------|------------------|------------------|-------------------|-------------------|
| Assessments | | | | No. | 9,740 | 10,425 | 7,199 | 6,976 | 7,514 |
| Value as assessed Duty assessed | : | • | • | \$'000 | 147,677 7,796 | 172,244 9,878 | 130,875 7,158 | 199,454 18,037 | 297,020 36,077 |

Australian Capital Territory Stamp Duty and Tax

Stamp duty and tax on a range of instruments and transactions connected with the Australian Capital Territory, including Jervis Bay, came into operation on 1 July 1969.

The Australian Capital Territory Taxation (Administration) Act 1969 provides for the administrative procedures necessary for assessment and collection of duty and tax.

Six additional Acts specify the range of dutiable instruments or transactions subject to duty or tax which are as under:

Cheques and other bills of exchange and promissory notes: Five cents on each.

Hire purchase agreements: 14 per cent of the purchase price (if over \$100) after excluding any deposit and any terms or insurance charges.

Insurance business: Five per cent of premiums other than for life assurance, third party motor vehicles insurance or workers' compensation insurance.

Sales and purchases of marketable securities: Effected through a broker for full sale value. Up to \$100-7 cents for each \$25.00 or part thereof. Over \$100-30 cents for each \$100 or part thereof. The rate applies to the sale price and/or purchase price payable by the seller and purchaser respectively.

Transfer of marketable securities not through a broker: 15 cents for every \$25.00 of the value or part thereof.

Leases and realty: Transfers of freehold or leasehold interests in land situated in the Territory—at the rate of \$1.00 per \$100 (or part thereof) of the value of the interest in the land transferred.

Grant of lease: 30 cents for every \$100 rent or part thereof and if any other consideration not being rent—\$1.00 for every \$100 or part thereof of that other consideration.

A general exemption is provided from all duties for public hospitals, public benevolent institutions, religious institutions, public educational institutions and for visiting diplomatic personnel and their families. The total amount collected as Australian Capital Territory Stamp Duty and Tax was \$3,589,000 in 1972-73, \$3,995,000 in 1973-74 and \$3,433,000 in 1974-75.

Customs duties

A description of the Australian Customs Tariff System is given in Chapter 11, Overseas Transactions. Details of duties collected on the import of commodities classified in accordance with the "Brussels Nomenclature" are given in the following table.

NET CUSTOMS DUTIES ACCORDING TO BRUSSELS TARIFF DIVISIONS (\$'000)

| Brussels | | | | | | |
|--------------------|---|------------------|------------------|------------------|-------------------|-------------------|
| Tariff Division | Source of receipts | 1970-71 | 197 1–72 | 1972-73 | 1973-74 | 1974-75 |
| 1 | Live animals; animal products | 1,251 | 1,114 | 1,318 | 983 | 877 |
| 2 | Vegetable products | 1,442 | 1,507 | 1,540 | 2,067 | 969 |
| 3 | Animal and vegetable fats and oils and their cleavage products; prepared edible fats; | | | | | |
| 4 | animal and vegetable waxes Prepared foodstuffs; beverages, spirits and | 1,987 | 1,184 | 1,481 | 929 | 156 |
| 5 | vinegar; tobacco | 64,215 13,715 | 69,975 7,759 | 76,556 14,278 | , | 133,875 |
| 6 | Products of the chemical industry and allied | 13,713 | 1,139 | 14,270 | 9,083 | 9,013 |
| U | industries | 16,002 | 14,625 | 14,967 | 12,045 | 13,008 |
| 7 | Artificial resins and plastic materials, cellu- lose esters and ethers, and articles thereof; rubber, synthetic rubbers, factice and articles thereof | , | 20,990 | 26,595 | · | · |
| 8 | Raw hides and skins, leather, furskins and articles thereof; saddlery and harness; travel goods, handbags and similar containers; articles of gut (other than silk- | 22,388 | 20,770 | 20,393 | 26,751 | 32,695 |
| 9 | worm gut) | 3,842 | 4,349 | 4,619 | 5,588 | 6,401 |
| 10 | materials; basketware and wickerwork . | 9,182 | 9,025 | 10,401 | 12,509 | 11,979 |
| 10 | Paper-making material; paper and paper- board and articles thereof | 11,353 | 11,165 | 12,392 | 13,368 | 13,306 |
| 11 | Textiles and textile articles | 59,129 | 68,994 | 75,380 | 96,890 | 107,836 |
| 12 | Footwear, headgear, umbrellas, sunshades, whips, riding-crops and parts therefor; prepared feathers and articles made there- with; artificial flowers; articles of human | 22,122 | | , | , | , |
| 13 | hair; fans | 10,437 | 11,741 | 11,433 | 14,845 | 18,129 |
| 14 | ceramic products; glass and glassware Pearls, precious and semi-precious stones, precious metals, rolled precious metals, and articles thereof; imitation jewellery; | 11,193 | 11,982 | 12,607 | 13,269 | 15,797 |
| | coin | 1,997 | 2,000 | 2,282 | 3,170 | 4,758 |
| 15 16 | Base metals and articles of base metal Machinery and mechanical appliances; electrical equipment; parts therefor | 34,315 98,229 | 28,254 96,610 | 33,229 93,971 | 30,219 110,755 | 40,047 188,323 |
| 17 | Vehicles, aircraft, and parts therefor; vessels and certain associated transport equipment | 64,353 | 66,249 | 75,076 | 101,213 | 175,540 |
| 18 | Optical, photographic, cinematographic measuring, checking, precision, medical and surgical instruments and apparatus; clocks and watches, musical instruments; sound recorders and reproducers; television image and sound recorders and reproducers, magnetic; parts therefor | 15,786 | 16,173 | 16,887 | 18,353 | 19,911 |
| 19 | Arms and ammunition; parts therefor . | 483 | 348 | 361 | 368 | 457 |
| 20 | Miscellaneous manufactured articles | 11,656 | 12,228 | 14,362 | 17,640 | 21,167 |
| 21 | Works of art, collectors' pieces and antiques | 12 | -31 | 35 | 52 | 79 |
| | Miscellaneous | 6,750 6,285 | 7,063 5,457 | 7,535 6,109 | 10,318 2,882 | 19,819 6,391 |
| | Total customs duties and primage . | 466,003 | 468,761 | 513,414 | 604,458 | 840,535 |
| | Less Remission of duty under special circumstances | 15 | 29 | 33 | 15 | 20 |
| | Total | 465,989 | 468,732 | 513,381 | | |

Excise duties

Details of duties collected in relation to the production of specific commodities are given in the following table.

FEDERAL EXCISE REVENUE: CLASSIFICATION OF NET RECEIPTS
(\$'000)

| Source of revenue | | | | 1970–71 | 1971-72 | 1972–73 | 1973-74 | 1974–75 |
|-----------------------|---|---|---|-------------|-----------|-----------|-----------|-----------|
| Beer | | | | 382,479 | 398,330 | 419,954 | 462,400 | 475,963 |
| Spirits, liquers, etc | | | | 25,923 | 27,180 | 30,501 | 46,037 | 62,847 |
| Tobacco | | | | 15,450 | 16,979 | 15,584 | 16,703 | 18,358 |
| Cigars and cigarettes | | | | 257,034 | 291,087 | 312,780 | 375,210 | 453,739 |
| Cigarette papers . | | | | 859 | 908 | 845 | 845 | 806 |
| Petrol | | | | 328,584 | 420,856 | 438,486 | 595,313 | 642,183 |
| Diesel fuel | | | | 30,815 | 38,352 | 42,399 | 56,215 | 60,319 |
| Matches | | | | 2,289 | 2,519 | 2,677 | 2,717 | 2,357 |
| Playing cards | | | | 134 | 149 | 148 | 160 | 149 |
| Grape wine | | | | 8,702 | 11,516 | 3,275 | | |
| Coal | | | | 1,436 | 1,777 | 2,032 | 2,199 | 2,586 |
| Canned fruit | | | | 333 | 303 | 312 | 368 | 326 |
| Miscellaneous . | • | • | • | -268 | 3,294 | -330 | -3,521 | 9,399 |
| All items . | | | • | 1,053,770 | 1,213,250 | 1,268,663 | 1,554,646 | 1,729,032 |
| Diesel fuel taxation. | | | | 425 | 481 | 511 | 759 | 660 |
| Less rebates | | | | 567 | 668 | 885 | 824 | 1,062 |
| | | | | -142 | -187 | -374 | -65 | -401 |
| Other rebates . | • | • | • | -15 | -7 | | | -i1 |
| Total | | | | 1,053,613 | 1,213,056 | 1,268,289 | 1,554,581 | 1,728,621 |

The quantities of commodities on which excise duty were paid are given in Chapter 11, Overseas Transactions, page 350.

Sales Tax

The general rate of tax levied on all goods other than those specified in the schedules to the Sales Tax (Exemptions and Classifications) Act 1935 is 15 per cent and goods subject to special rates are taxed at either 2.5 per cent or 27.5 per cent. Prior to 19 August 1970 these special rates were 2.5 per cent and 25 per cent.

Particulars of the sales of taxable goods in each rate class in each State for 1973-74 are given in the following table. The figures relate to sales during the period 1 July to 30 June.

FEDERAL SALES TAX: SALE VALUE OF TAXABLE GOODS INCLUDED IN RETURNS IN EACH RATE CLASS. 1973-74

| | | | | Gross sale | Gross sales of goods taxable at various rates | | | | | | | |
|--------------------|-----|--------|------|------------|---|-----------|--------|-----------|--|--|--|--|
| State | | | | 2½% | 15% | 27½% | Other | Total | | | | |
| | | | | \$'000 | \$'000 | \$,000 | \$,000 | \$'000 | | | | |
| New South Wales a | and | A.C.T. | | 563,667 | 1,378,443 | 673,131 | 8,349 | 2,623,590 | | | | |
| Victoria . | | | | 506,233 | 921,692 | 428,606 | 15,486 | 1,872,017 | | | | |
| Oueensland . | | | | 169,600 | 441,792 | 196,959 | 5,326 | 813,677 | | | | |
| South Australia | | | | 118,252 | 266,271 | 141,012 | 2,759 | 528,294 | | | | |
| Western Australia | | | | 95,215 | 224,408 | 108,863 | 1,529 | 430,015 | | | | |
| Tasmania . | | | | 24,529 | 51,996 | 29,571 | 290 | 106,386 | | | | |
| Northern Territory | (a) | • | | 1,374 | 6,890 | 1,894 | 1,218 | 11,376 | | | | |
| Australia(a) | | | | 1,478,870 | 3,291,492 | 1,580,036 | 34,957 | 6,385,355 | | | | |

Sales of taxable goods and sales tax payable for Australia are shown in the following table for recent years. The figures for sales tax payable differ from those for net collections shown on page 579 because the latter include some adjustments in respect of earlier tax years and relate to tax payable on returns lodged during the year, which in general cover sales for the period June to May.

FEDERAL SALES TAX: SALE VALUE OF GOODS INCLUDED IN RETURNS AND COLLECTIONS

\$1000

| Year of sale | | | | | Gross taxable sales | Estimated net taxable sales(a) | Taxation Office | Burcau of Customs | Total |
|--------------|--|--|--|--|---------------------------|--------------------------------------|--------------------|----------------------|-------|
| | | | | | (b) | (b) | | | |
| 1970-71. | | | | | 4,132 | 3,940 | 610 | 23 | 633 |
| 1971-72. | | | | | 4,428 | 4,234 | 661 | 22 | 683 |
| 1972-73. | | | | | 4,996 | 4,798 | 741 | 24 | 765 |
| 1973-74. | | | | | 6,606 | 6,293 | 935 | 34 | 969 |
| 1974-75. | | | | | 7,677 | 7,293 | 1,103 | 51 | 1,154 |

⁽a) Represents gross taxable sales less discounts, goods returned, bad debts and other adjustments. (b) Statistics obtained from returns lodged at Taxation Office.

In the foregoing tables, sales include goods transferred to stock for sale by retail, goods imported by persons other than registered taxpayers, and goods used in the business of the taxpayer. Exempt sales relate to goods exempted from sales tax under the Sales Tax (Exemptions and Classifications) Act 1935. The figures shown do not represent the total sales of all commodities, as vendors trading only in exempt goods are not required to be registered, and consequently the volume of their sales is not included in the statistics above. In addition, non-taxable sales (i.e. goods sold by one registered taxpayer to another registered taxpayer) are excluded.

Primary production taxes and charges

The following section shows current rates of charges, and receipts from, primary production and other charges. Further information relating to primary production charges is given in Chapter 22, Rural Industry.

Wheat export charge and wheat tax. For details see Chapter 22, Rural Industry.

Wool tax. The rate of wool tax applicable to transactions in wool in the period 2 September 1974 to 18 August 1975 was 7.75 per cent. From 19 August 1975 the rate has been 8 per cent.

Miscellaneous export charges. These consist of charges levied on exports of apples and pears (Apple and Pear Export Charges Act 1928), canned fruits (Canned Fruits Export Charges Act 1926), dried fruits (Dried Fruits Export Charges Act 1924), and eggs (Eggs Export Charges Act 1947).

Tobacco charge. The rates of tobacco charge currently in force are as follows:

- (a) in respect of leaf grown in Australia and sold to a manufacturer:
 - (i) 1.1 cents per kilogram of leaf, payable by the grower or other persons who own the leaf immediately before sale, and
 - (ii) 2.2 cents per kilogram of leaf, payable by the manufacturer;
- (b) in respect of leaf grown and used by grower-manufacturers:
 - (i) where the manufacturer grows nine-tenths of the Australian tobacco leaf used by him—
 1.1 cents per kilogram of leaf,
 - (ii) in other cases—2.2 cents per kilogram of leaf.

(See also Chapter 22, Rural Industry.)

Butter fat levy. The Butter Fat Levy Act 1965 provides for a maximum rate of \$0.48 per hundredweight of butterfat content of specified dairy produce and for the apportionment of the proceeds between overseas marketing (50 per cent) and local promotion (50 per cent). (See also Chapter 22, Rural Industry.)

Dairy Research Levy. The Dairying Research Levy Act 1972 came into operation on 1 July 1972. It imposes a levy on all whole milk produced in Australia and is payable either on a butterfat or gallonage basis, according to the normal method of payment to producer by the purchaser. The present operative rates of levy are 10 cents per hundredweight butterfat (0.24 cents per kilogram) or 0.033 cents per gallon milk (7.3 cents per 1900 litres).

Canning-fruit charge. The present rate of canning-fruit charge is \$1.00 per tonne of fruit. This rate has operated since 1 December 1973.

Honey levy. The current rate of levy on honey sold for domestic consumption in Australia is 0.5 cents per pound.

Livestock slaughter levy. The present operative rate of levy for cattle is 46 cents per head of which 25 cents is for beef research, 1 cent for research into the meat processing industry and 20 cents to finance the operations of the Australian Meat Board. For sheep and lambs the levy is 3.85 cents per head and the components are 1.75 cents for sheep meat research, 0.1 cents for research into the meat processing industry and 2.00 cents for the Australian Meat Board.

Poultry industry levy. The rates of levy for each hen kept for commercial purposes (the first twenty hens being exempt) were 4.0 cents per fortnight from 1 July 1971 to 8 June 1972, nil per fortnight from 9 June 1972 to 30 June 1972 and 4.0 cents per fortnight from 1 July 1972.

Chicken meat levy. The rate of levy is 10 cents per hundred meat chickens hatched, payable by any hatchery with 20,000 chickens or more.

Pig slaughter levy. The present operative rate of levy is 5 cents for each pig slaughtered for human consumption.

Wine grapes charges. The Wine Grapes Charges Act 1929 imposes a levy, which is payable by the owner of a winery or distillery, on all grapes delivered to that winery for use in the manufacture of wine. No charge is payable unless 10 tonnes or more of grapes have been used in the manufacture of wine during a season. The operative rate of charge as from 25 January 1973 is \$2.40 per tonne of fresh grapes and \$7.20 in respect of dried grapes.

Dried vine fruits levy. The Dried Vines Fruits Levy Act 1971 imposes a levy on dried vine fruit where the average return for a season exceeds by more than \$10 the amount per ton that constitutes the base price for that season, with a maximum of \$20 per ton.

Apple and pear stabilisation export duty. The Apple and Pear Stabilisation Export Duty Act 1971 imposes an export duty on the exportation on consignment of fruit of a season where the average export return for a season exceeds the support price for that season. The maximum rate of export duty is 80 cents per reputed bushel.

Dried fruits levy. The Dried Fruits Levy Act 1971 imposes a levy on dried fruits of a season received for packing. The rate of levy is in the case of dried vine fruits 50 cents per ton and in the case of dried tree fruits \$2.50 per ton.

FEDERAL PRIMARY PRODUCTION TAXES AND CHARGES RECEIPTS (\$'000)

| Source of revenue | | | 1970-71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|----------------------------|----|---|---------|---------|---------|---------|---------|
| Apple and pear export char | ge | | 386 | 408 | 431 | 347 | 352 |
| Butterfat levy | • | | 2,184 | 2,133 | 1,731 | 1,673 | 1,604 |
| Canned fruit export charge | | | 427 | 342 | 387 | 292 | 176 |
| Canning fruit charge . | | | 218 | 171 | 136 | 183 | 108 |
| Dairy research levy . | | | | | 490 | 512 | 501 |
| Dried fruits export charge | | | 232 | 267 | 309 | 87 | 105 |
| Dried fruits levy | | | | 46 | 70 | 44 | 42 |
| Dried vine fruits levy . | | | | | | | 155 |
| Egg export charge | | | 4 | 4 | 4 | 4 | 2 |
| Honey levy | | | 108 | 122 | 120 | 129 | 190 |
| Livestock slaughter levy- | | - | | | | | |
| Cattle | | | 1,811 | 2,432 | 3,194 | 2,848 | 3,289 |
| Pigs | - | - | ., | 144 | 232 | 215 | 175 |
| Sheep and lambs . | | | 1,409 | 1,932 | 1,637 | 908 | 1,086 |
| Meat export charge— | | | -, | | -, | | -, |
| Cattle meat | _ | | | | | 5,669 | 14,858 |
| Other meat | | | • • | | | 967 | 2,259 |
| Chicken meat levy | | | 114 | 118 | 118 | 146 | 139 |
| Poultry industry levy . | | | 12,819 | 13,038 | 12,978 | 11,612 | 12,872 |
| Tobacco charge | | | 502 | 567 | 510 | 535 | 505 |
| Wheat export charge . | | | ••• | • • | | 9,843 | 38,678 |
| Wheat tax | · | | 607 | 712 | 639 | 1,104 | 1,180 |
| Wine grapes charges . | · | · | 534 | 513 | 689 | 792 | 864 |
| Wool tax | • | : | 5,567 | 5,496 | 11,171 | 26,531 | 64,288 |
| Total | | | 26,922 | 28,445 | 34,846 | 64,441 | 143,428 |

Pay-roll tax

Federal pay-roll tax came into operation on 2 May 1941 and provided for the imposition of a tax on wages paid or payable in respect of any period of time occurring after 30 June 1941. The tax was payable by employers on all wages and salaries paid or payable in excess of a general exemption. The rate of tax, 2.5 per cent, was unchanged since its inception but the general exemption was increased over the years from \$173.33 to \$1,733.33 per month (\$2,080 per annum to \$20,800 per annum).

From 1 September 1971, in accordance with an agreement between the Commonwealth Government and the States following the June 1971 Premiers' Conference, the Commonwealth Government vacated the pay-roll tax field in favour of the States. It continued, however, to impose pay-roll tax in the Australian Capital Territory and the Northern Territory. The laws relating to pay-roll tax in the Territories are the Pay-roll Tax (Territories) Assessment Act 1971 and the Pay-roll Tax (Territories) Act 1971.

Since December 1974 the rate of tax payable in the Territories is 5 per cent with a statutory exemption of wages up to \$1,733.33 per month (\$20,800 per annum) or a proportion of that amount in the case of an employer who is an employer also in a State.

On vacating the pay-roll tax field in favour of the States the Commonwealth Government introduced an export incentive grant scheme to provide grants in respect of the 1971-72 and 1972-73 financial years equal to the rebates which would have been payable for those years if the pay-roll tax rebate scheme which had operated from the 1960-61 financial year had continued in operation until it expired on 30 June 1974.

Gross collections of pay-roll tax in 1974-75 amounted to \$15,712,576. Refunds of pay-roll tax during 1974-75 under the pay-roll tax rebate scheme amounted to \$874,648. For details of the pay-roll tax rebate scheme, see page 553 of the Official Year Book No. 57.

Stevedoring Industry Charge

The rates in operation from 13 February 1976 have been as follows:

| Clas | s of Wa | terside | |
|------|---------|---------|-------------------|
| Wor | ker | | Rate |
| | | | \$ |
| Α | | | 4 00 per man-hour |
| В | | | 4.75 per man-hour |
| C | | | 2.85 per man-hour |

Class A waterside workers are permanent waterside workers in permanent and continuous ports. Class B are regular casual waterside workers in continuous ports and Class C are regular casual waterside workers in non-continuous and seasonal ports and irregular workers in all ports.

Taxes levied in the Territories

Northern Territory. Taxes levied by the Commonwealth Government in the Northern Territory in the past five years were as follows.

NORTHERN TERRITORY: TAXATION BY TYPE OF TAX (\$'000)

| Type of tax | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|------------------------------------|-----|---------|---------|---------|---------|---------|
| Rates on land | | 698 | 1.040 | 1.099 | 1,227 | 1,647 |
| Vehicle registration fees | | 583 | 709 | 736 | 776 | 741 |
| Drivers', etc., licences(a). | | 63 | 75 | 79 | 83 | 90 |
| Liquor taxes(a) | | 366 | 443 | 486 | 589 | 568 |
| Payroll taxes | | | 1,900 | 1.950 | 2,800 | 5,300 |
| Racing taxes | | 96 | 112 | 117 | 222 | 202 |
| Fees from regulatory services, n.e | e.i | 312 | 302 | 304 | 353 | 323 |
| Stamp duties | | 176 | 158 | 184 | 330 | 259 |
| Other taxes, fees, fines, etc | | 166 | 282 | 310 | 403 | 358 |
| Total taxation | | 2,460 | 5,021 | 5,265 | 6,783 | 9,488 |

Australian Capital Territory. Taxes levied by the Commonwealth Government in the Australian Capital Territory in the past five years were as follows.

AUSTRALIAN CAPITAL TERRITORY: TAXATION BY TYPE OF TAX
(\$'000)

| Type of tax | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---------------------------|-------|----------|---|----------|----------|---------|---------|---------|---------|---------|
| | | <u> </u> | · | <u> </u> | <u>.</u> | | 17/1 /2 | | 17/3-/4 | 17/4-/3 |
| Rates on land | | | | | | 1,383 | 4,362 | 5,166 | 6,134 | 7,135 |
| Vehicle registration fees | | | | | | 937 | 1,090 | 1,236 | 1,818 | 2,751 |
| Drivers', etc., licences | | | | | | 101 | 129 | 119 | 580 | 623 |
| Liquor taxes | | | | | | 340 | 390 | 459 | 589 | 710 |
| Payroll taxes | | | | | | | 1,967 | 3,153 | 4,805 | 10,210 |
| Fees from regulatory se | rvice | s, n.e.i | | | | 150 | 161 | 535 | 576 | 625 |
| Stamp duties | | - | | | | 2,475 | 2,561 | 3,589 | 3,995 | 3,433 |
| Other taxes, fees, fines, | etc. | | • | • | • | 28 | 15 | 304 | 112 | 104 |
| Total taxation | | | | | | 5,414 | 10,675 | 14,561 | 18,609 | 25,591 |

Rates on land and stamp duties (see also page 594) are the principal taxes levied in the Australian Capital Territory.

Gross operating surplus of public enterprises

The gross operating surplus of public trading enterprises is the excess over working expenses of total revenue from charges before providing for capital consumption and other costs of capital (i.e. interest, debt redemption) Financial enterprises do not charge directly, at least not in full, for the services they render; that expenditure is largely financed by net receipts of interest and other transfer income. By convention, the output of these enterprises is valued at cost, so that no operating surplus is recorded in their production accounts. The profits of these enterprises are attributable to their property income. Income (including depreciation) of public financial enterprises is therefore arrived at after deducting interest paid and working expenses (i.e. net current expenditure on goods and services) from total receipts of interest and non-dwelling rent.

In the following table the revenue, working expenses and gross operating surplus of public trading enterprises are shown; public financial enterprises are reflected simply on the basis of their income (including depreciation). Further information relating to the more important of these enterprises may be found in the chapters dealing with banking, housing, railways, electric power generation, etc.

PUBLIC TRADING ENTERPRISES: REVENUE, WORKING EXPENSES AND GROSS OPERATING SURPLUS, CLASSIFIED BY INDUSTRY

(\$ million)

| Industry | | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-7. |
|---|------------|-------|--------------|--------------|---------------|---------------|--------------|
| | | F | REVENUE | | | | |
| Manufacturing | | | 19.4 | 21.8 | 23.4 | 28.5 | 34.0 |
| Electricity | | | 48.5 | 52.1 | 61.1 | 66.8 | 76. |
| Water supply, sewerage and drainage Transport and communication— | | • | 2.0 | 3.4 | 4.3 | 5.0 | 5.0 |
| Air transport | | | 331.8 | 333.7 | 389.9 31.2 | 481.6 37.2 | 590. |
| Rail transport | | • | 29.0 70.2 | 29.2 79.4 | 93.0 | 113.4 | 41. 145. |
| Urban transit systems | | | 6.9 | 7.6 | 7.7 | 8.9 | 9. |
| Communication | | • | 755.8 | 901.3 | 983.3 | 1,162.7 | 1,444. |
| Total | | • | 1,193.7 | 1,351.1 | 1,505.1 | 1,803.9 | 2,230. |
| Commerce | | | 45.5 | 102.0 | 64.5 | 52.2 | 43. |
| Property and business services— Housing | | | 18.9 | 16.9 | 15.8 | 20.9 | 22. |
| Other | | | 6.6 | 1.8 | 9.1 | 11.8 | 18. |
| Total | | | 25.5 | 25.1 | 24.9 | 32.7 | 40. |
| Community social and personal services | | | 9.4 | 10.0 | 10.3 | 11.8 | 16.8 |
| Total revenue | | | 1,344.0 | 1,565.4 | 1,693.6 | 2,000.8 | 2,446.9 |
| | W | ORKIN | NG EXPEN | SES(a) | | | |
| Manufacturing | | | 10.0 | 21.2 | 21.0 | 28.5 | 35.0 |
| Electricity | | • | 18.0 11.5 | 21.2 13.0 | 21.9 14.3 | 18.6 | 29. |
| Water supply, sewerage and drainage | | | 2.0 | 2.3 | 2.6 | 3.1 | 3. |
| Transport and communication— Air transport | | | 287.3 | 290.1 | 328.1 | 411.8 | 548. |
| Rail transport | : : | : | 24.9 | 26.7 | 29.2 | 38.8 | 50. |
| Sea transport | | • | 60.4 6.0 | 68.7 6.6 | 75.1 7.0 | 95.5 9.8 | 136. 12. |
| Communication | <i></i> | | 486.8 | 540.2 | 608.5 | 778.0 | 986. |
| Total | | | 865.5 | 932.3 | 1,047.8 | 1,333.8 | 1,734. |
| Commerce | | | 42.1 | 107.0 | 69.3 | 54.1 | 68. |
| Property and business services— Housing | | | 17.6 | 15.5 | 14.1 | 17.9 | 21. |
| Other | . <i>:</i> | : | 6.1 | 7.7 | 8.4 | 11.0 | 18. |
| Total | | | 23.7 | 23.2 | 22.5 | 28.9 | 39. |
| Community social and personal services | | • | 6.7 | 7.1 | 7.7 | 9.0 | 13.9 |
| Total working expenses | • | • | 969.4 | 1,106.1 | 1,186.3 | 1,476.1 | 1,924.8 |
| Total working expenses . | · · | • | | | 1,100.5 | | 1,724.0 |
| (| GROS | S OPE | RATING S | URPLUS | | | |
| Manufacturing | | | 1.5 | 0.6 | 1.5 | -0.1 | -0.1 |
| Electricity Water supply, sewerage and drainage | | • | 37.0 | 39.1 1.0 | 46.8 1.7 | 48.2 1.9 | 46.7 1.1 |
| Fransport and communication— | • | • | | | | | |
| Air transport | | • | 44.6 4.0 | 43.5 2.5 | 61.8 2.1 | 69.8 ~1.6 | 42.0 -9.2 |
| Sea transport | | : | 9.8 | 10.7 | 17.9 | 18.0 | 8. |
| Urban transit systems Communication | | | 0.9 269.0 | 1.0 361.0 | 0.7 374.8 | -0.8 384.7 | -3.0 457. |
| • | • | • | | | | | |
| Total | | • | 328.3 | 418.7 | 457.2 | 470.1 | 496 |
| Commerce . Property and business services— | • | • | 3.4 | -4.9 | -4.9 | -1.9 | -25.1 |
| Housing | | | 1.3 | 1.4 | 1.7 | 3.0 | 0. |
| Other | • | • | 0.5 | 0.5 | 0.7 | 0.7 | 0.: |
| Total | | • | 1.8 | 1.9 | 2.5 | 3.7 | 1 |
| Community, social and personal services | | | 2.7 | 2.8 | 2.6 | 2.8 | 2.9 |
| Total gross operating surplus | | | 374.6 | 459.3 | 507.3 | 524.7 | 522.1 |
| | • | • | 5.4.0 | 707.0 | 001.5 | | |

STATE AUTHORITIES

The State authorities dealt with in this section include the central government of each State, statutory bodies created by or under State legislation to carry out activities on behalf of the central government, and incorporated organisations in which individual State governments have a controlling interest.

The transactions of many of the State authorities are itemised in State Consolidated Revenue Funds or in Trust Funds, so that a satisfactory coverage of their transactions can be obtained from a detailed analysis and reclassification of the published accounts whose receipts and payments are summarised in the statement of Treasury balances for each State. The remaining statutory bodies and other publicly owned or controlled organisations maintain accounts entirely, or largely separate from the public accounts although there may be transactions between them and State governments (such as advances and capital contributions, interest and dividends, and votes for running expenses and capital works) which would affect the public accounts. The accounting reports of this group of organisations have to be collected and analysed in order to present a complete statement of the transactions of State authorities—or at least methods of analysis need to be adopted which adequately reflect their transactions so that they are, in principle, covered by the statistics. In the figures which follow in this section all expenditure by State central government authorities on certain institutions, whether direct (e.g. new building charged to Loan Fund) or indirectly by way of current or capital grants to the bodies administering them, has been treated as final expenditure on goods and services by State authorities; fees and gifts from persons or private businesses to these institutions are not included, and neither is the expenditure of the institutions from their own resources. Universities and hospitals are particular examples of organisations for which this practice has been adopted.

Many of these State authorities have been granted autonomy by State legislatures to the extent that they are largely financially independent. Some of these are funded from earmarked tax revenues and are vested with independent borrowing powers. A considerable number of others belong to the category of public enterprises, since they are able to charge for their services so as to cover their costs of operation. These bodies have usually been created to control a specific activity or provide a specific service within a State. It is often the case that in other States similar activities are carried out, or services are provided, by central government or local authorities. Details of the activities of autonomous or semi-autonomous State authorities engaged in construction and maintenance of roads and bridges, provision of water supply and sewerage services, and harbour facilities, are given in the last part of this chapter. Information on the activities of other State authorities engaged in such fields as transport, electricity and gas, housing and banking may be found in chapters relevant to those subjects.

Details of the transactions of State authorities are given in the tables which follow. Reference should be made to the introduction of *Public Authority Finance*, *State and Local Authorities*, 1973–74, for definitions and descriptions of items appearing in these tables, and also for further details of the organisations covered by the figures. Additional information relating to the activities of the State authorities may also be found in the Year Books of the individual States.

Receipts and outlay

The receipts and outlay of State authorities for the five year period ended 1974-75 are given in the following table.

STATE AUTHORITIES(a): RECEIPTS AND OUTLAY
(\$ million)

| Final consumption expenditure | | | | _ | | (\$ mi | llion) | | | | |
|--|----------------------------------|--------|--------|-------|---------------|--------|---------|---------|---------|---------|------------------|
| Final consumption expenditure | | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-7. |
| Gross capital formation— Increase in stocks Increase in stocks Increase in stocks Expenditure on ew fixed assets Increase in stocks Increase in st | | | | | | OUT | LAY | | | | |
| Increase in stocks | | | • | | - | | 2,031.7 | 2,393.5 | 2,834.8 | 3,625.2 | 5,239. |
| Expenditure on new fixed assets 1,696.6 1,877.6 2,003.6 2,783.3 3,26 2,893.4 3,25 2,201.6 2,201.6 2,201.6 2,203.6 2,233.3 3,25 2,201.6 2,203.6 2,233.3 3,25 2,203.6 2,233.3 3,25 2,203.6 2,233.3 3,25 2,203.6 2,233.3 3,25 2,203.6 2,233.3 3,25 3,25 2,233.3 3,25 3,2 | | | | _ | | | 9.5 | 8.2 | 1.7 | 15.9 | 55. |
| Transfer payments— | Expenditure on new fixed assets | | : | : | : | : | 1,696.6 | 1,877.6 | 2,003.6 | 2,258.3 | 3,265. 236. |
| Interest | Total gross capital formation | n | | | | | 1,767.1 | 1,997.7 | 2,087.8 | 2,453.4 | 3,557 |
| Transfers to persons 98.8 132.0 164.9 178.8 19 Subsidies 25.7 28.7 27.5 30.1 3 7 ansfers overseas 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 | Transfer payments— | | | | | | | | | | |
| Subsidies 25.7 28.7 27.5 30.1 3 3 1 3 3 3 3 3 3 | | | | | • | | | | | | 1,030. |
| Transfers overseas 0.3 0.3 0.3 0.3 0.3 0.3 Crants for private capital purposes 24.3 25.0 31.0 43.4 7 Grants to local authorities 95.2 118.7 168.4 150.4 26 **Total transfer payments 969.6 1,122.3 1,268.8 1,337.6 1,59 Net advances— To the private sector 83.0 90.2 57.0 41.7 15 To public financial enterprises 35.4 38.0 50.7 60.7 8 To local authorities 1.8 2.0 3.2 5.9 1 **Total net advances 120.1 130.2 110.9 108.2 25 Total outlay 4,888.6 5,643.7 6,302.4 7,524.3 10,64 **of which——————————————————————————————————— | | • | | • | | • | | | | | 197. 37. |
| Grants for private capital purposes 24.3 25.0 31.0 43.4 7 7 15 | | · | : | : | | • | | | | | ő. |
| Net advances | Grants for private capital purpo | oses | | | | | 24.3 | 25.0 | | | 72. |
| Net advances | Grants to local authorities. | | • | | | | 95.2 | 118.7 | 168.4 | 150.4 | 260. |
| To the private sector. 83.0 90.2 57.0 41.7 15 To public financial enterprises 35.4 38.0 50.7 60.7 8 To local authorities 1.8 2.0 3.2 5.9 1 Total net advances 120.1 130.2 110.9 108.2 25 Total outlay 4,888.6 5,643.7 6,302.4 7,524.3 10,64 of which— current outlay 3,001.3 3,515.8 4,103.6 4,962.8 6,83 capital outlay 1,887.2 2,127.9 2,198.7 2,561.6 3,80 RECEIPTS AND FINANCING ITEMS Taxes, fees, fines, etc. 1,006.2 1,411.1 1,775.5 2,201.2 2,78 Income from public enterprises 373.7 406.3 361.9 285.8 20 Interest, etc., received 205.3 221.5 246.3 306.4 40 Grants from the Commonwealth Government— for current purposes 1,671.3 1,768.8 2,075.9 2,533.4 3,73 for capital purposes 553.7 625.8 706.2 898.6 1,40 Total receipts 3,810.2 4,433.5 5,165.9 6,225.4 8,53 Financing items— Net borrowing— Public corporation securities 238.2 339.0 301.5 335.8 39.0 Other general government securities 57.1 55.1 41.6 61.7 66 Advances from the Commonwealth Government (net)— For loan works purposes 50.2 66.8 92.9 101.9 15. Reduction in cash and bank balances 50.2 66.8 92.9 101.9 15. Reduction in security holdings 50.2 66.7 54.7 61.3 101.9 7. Other funds available (including errors and omissions)— Depreciation allowances 227.7 252.5 270.6 293.0 27. Other . 66.7 54.7 61.3 101.9 7. | Total transfer payments | | | | | | 969.6 | 1,122.3 | 1,268.8 | 1,337.6 | 1,598. |
| To public financial enterprises 135.4 38.0 50.7 60.7 8 To local authorities 1.8 2.0 3.2 5.9 1 Total net advances 120.1 130.2 110.9 108.2 25 Total outlay 4,888.6 5,643.7 6,302.4 7,524.3 10,64 of which— | | | | | | | | | | | |
| To local authorities | | • | • | | • | • | | | | | 150. |
| Total net advances 120.1 130.2 110.9 108.2 25 | | • | • | • | • | • | | | | 60.7 | 82. 17. |
| Total outlay | 10 local authornies | • | • | • | • | • | 1.0 | 2.0 | 3.2 | 3.9 | 17. |
| RECEIPTS AND FINANCING ITEMS Income from public enterprises | Total net advances . | | • | | | | 120.1 | 130.2 | 110.9 | 108.2 | <i>251</i> . |
| RECEIPTS AND FINANCING ITEMS RECEIPTS AND FINANCING ITEMS Receipts— Taxes, fees, fines, etc. 1,006.2 1,411.1 1,775.5 2,201.2 2,78 1,606.2 1,411.1 1,775.5 2,201.2 2,78 1,606.2 1,411.1 1,775.5 2,201.2 2,78 1,606.3 361.9 285.8 20 1,606.3 361.9 285.8 20 1,606.3 361.9 285.8 20 1,606.3 361.9 285.8 20 1,606.3 361.9 285.8 20 1,606.3 361.9 285.8 20 1,606.3 361.9 2,533.4 3,73 | Total outlay | | | | | | 4,888.6 | 5,643.7 | 6,302.4 | 7,524.3 | 10,646. |
| Receipts— Taxes, fees, fines, etc. Income from public enterprises Income from public enterprises Interest, etc., received Interest, etc., | current outlay | | : | | | | | | | | 6,838. 3,808. |
| Taxes, fees, fines, etc. 1,006. 2 1,411. 1,775. 3 2,201. 2 2,78 Income from public enterprises 373.7 406.3 361.9 288.8 200 Interest, etc., received 205.3 221.5 246.3 306.4 40 Grants from the Commonwealth Government— for current purposes 1,671.3 1,768.8 2,075.9 2,533.4 3,73 for capital purposes 553.7 625.8 706.2 898.6 1,40 Total receipts 3,810.2 4,433.5 5,165.9 6,225.4 8,53 Financing items— Net borrowing— Public corporation securities 238.2 339.0 301.5 335.8 39 Other general government securities 57.1 55.1 41.6 61.7 66 Advances from the Commonwealth Government (net)— For loan works purposes 575.1 55.1 41.6 61.7 66 Other Commonwealth Government (net)— For loan works purposes 575.2 55.4 40.5 66.3 300.6 63 Net receipts of private trust funds 550.2 65.8 92.9 101.9 155 Reduction in cash and bank balances -104.8 -80.6 -222.9 -293.8 -1 Reduction in security holdings 20.5 -66.5 -76.1 -50.2 -75 Other (unds available (including errors and omissions)— Depreciation allowances 66.7 54.7 61.3 101.9 75 Other (unds available (including errors and omissions)— Depreciation allowances 66.7 54.7 61.3 101.9 75 Other (unds available (including errors and omissions)— Depreciation allowances 66.7 54.7 61.3 101.9 75 Other (unds available (including errors and omissions)— | | R | ECE | IPTS | S AN | D F | NANCIN | G ITEMS | | | |
| Income from public enterprises 373.7 406.3 361.9 285.8 200 Interest, etc., received 205.3 221.5 246.3 306.4 400 Grants from the Commonwealth Government 1,671.3 1,768.8 2,075.9 2,533.4 3,73 For capital purposes 1,671.3 1,768.8 2,075.9 2,533.4 3,73 For capital purposes 3,810.2 4,433.5 5,165.9 6,225.4 8,53 Financing items | Receipts— | | | | | | 1.006.2 | 1.411.1 | 1.775.5 | 2.201.2 | 2,781. |
| Interest, etc., received 205.3 221.5 246.3 306.4 40 | | : | : | : | · · | · | 373.7 | | 361.9 | 285.8 | 204.8 |
| for current purposes 1,671.3 1,768.8 2,075.9 2,533.4 3,73 for capital purposes 553.7 625.8 706.2 898.6 1,40 **Total receipts** **Total receipt | Interest, etc., received . | . • _ | | | | | 205.3 | 221.5 | 246.3 | 306.4 | 407.9 |
| Total receipts 3,810.2 4,433.5 5,165.9 6,225.4 8,53 | | h Go | overnr | nent— | - | | 1 671 3 | 1 769 9 | 2.075.0 | 2 522 4 | 2 725 |
| Total receipts | | • | • | • | • | • | | | | | 1,409 |
| Financing items— Net borrowing— Public corporation securities Other general government securities For loan works purposes Other cecipits of private trust funds Reduction in each and bank balances Reduction in security holdings Other funds available (including errors and omissions)— Depreciation allowances Other Depreciation allowances Net receipts of private trust funds Solution in cash and bank balances Depreciation allowances Net receipts of private trust funds Solution in cash and bank balances Solution in security holdings Solution in cash and bank balances Solution in cash and bank b | in capital purposes . | • | • | • | • | - | | | | | • |
| Net borrowing— | Total receipts | • | ٠ | • | • | ٠ | 3,810.2 | 4,433.5 | 5,165.9 | 6,225.4 | 8,539 |
| Public corporation securities 238.2 339.0 301.5 335.8 390.0 301.5 335.8 301.5 335.8 390.0 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 301.5 335.8 330.0 301.5 335.8 330.0 301.5 335.8 330.0 301.5 335.8 330.0 335.8 330.0 335.8 330.0 335.8 330.0 335.8 330.0 335.8 330.0 335.8 335.8 330.0 335.8 335.8 330.0 335.8 335.8 335.8 335.8 335.8 335. | Financing items— | | | | | | | | | | |
| Other general government securities 57.1 55.1 41.6 61.7 66 Advances from the Commonwealth Government (net)—For loan works purposes 366.4 549.6 601.3 447.9 59 Other 156.4 40.5 66.3 300.6 63 Net receipts of private trust funds 50.2 65.8 92.9 101.9 155 Reduction in cash and bank balances -104.8 -80.6 -222.9 -293.8 -1 Reduction in security holdings 20.5 -66.5 -76.1 -50.2 -75 Other funds available (including errors and omissions)—Depreciation allowances 227.7 252.5 270.6 293.0 27 Other 66.7 54.7 61.3 101.9 75 | | | | | | | 238.2 | 339.0 | 301.5 | 335.8 | 396. |
| Advances from the Commonwealth Government (net)— For loan works purposes Other | | curiti | cs . | · · | | | | 55. I | 41.6 | 61.7 | 69. |
| Other Not provided the state of | | alth | Gove | rnmen | ıt (net |)— | 266.4 | 640.6 | (01.3 | 447.0 | 592. |
| Net receipts of private trust funds 50.2 65.8 92.9 101.9 15.8 | | • | • | • | • | • | | | | | 632. |
| Reduction in cash and bank balances -104.8 | | da | • | • | • | • | 50.7 | | | | 152. |
| Reduction in security holdings 20.5 -66.5 -76.1 -50.2 -75.1 Other funds available (including errors and omissions)—Depreciation allowances 227.7 252.5 270.6 293.0 27.66.7 Other 66.7 54.7 61.3 101.9 77.66.7 | | | | ٠ | : | : | | | | -293.8 | -11.9 |
| Other funds available (including errors and omissions)— Depreciation allowances | Reduction in security holdings | | | : | : | | | | | | -75.0 |
| Other | Other funds available (including | g erre | ors an | d om | ission | s) | | 262.6 | 270 (| 202.0 | 271 |
| | | | • | • | • | • | | | | | 271.1 79.0 |
| Total financing items 1.078.4 1.210.2 1.136.5 1.298.9 2.103 | Oiner | • | ٠ | ٠ | • | • | 00.7 | J-7. / | 01.3 | 101.9 | ,,,, |
| a view growing thems a contract of the contrac | Total financing items . | | | | | | 1,078.4 | 1,210.2 | 1,136.5 | 1,298.9 | 2,107.5 |
| • | • | | | | | | 4.888.6 | 5,643.7 | 6,302.4 | 7,524.3 | 10,646.8 |

⁽a) Excludes financial enterprises.

The following table provides details of the receipts and outlay of State authorities in each of the six States.

STATE AUTHORITIES(a): RECEIPTS AND OUTLAY, BY STATE, 1974-75 (\$ million)

| | | | (5 mil | non) | | | | | |
|---|---------|--------|--------------------|--------------------|------------------|----------------|----------------|----------------|------------------|
| | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
| | | | OUTI | LAY | | | | | |
| Final consumption expenditure . | | | 1,866.0 | 1,347.1 | 745.5 | 518.2 | 534.6 | 227.9 | 5,239.3 |
| Gross capital formation— Increase in stocks | | | 16.5 | 15.5 | 4.5 | 3.3 | 12.6 | 2.6 | 55.1 |
| Expenditure on new fixed assets | | ÷ | 1,086.7 | 864.2 | 516.6 | 331.7 | 340.1 | 126.5 | 3,265.9 |
| Expenditure on existing assets (net) | • | • | 80.0 | 98.6 | -1.6 | 45.5 | 13.6 | 0.7 | 236.6 |
| Total gross capital formation | | | 1,183.2 | 978.3 | 519.6 | 380.4 | 366.3 | 129.8 | 3,557.5 |
| Transfer payments— | | | 291.0 | 327.8 | 141.4 | 120.0 | 91.2 | 50 2 | 1,030.7 |
| Interest | : : | : | 69.9 | 54.9 | 34.4 | 14.5 | 18.3 | 59.3 5.7 | 197. |
| Subsidies | | | 18.9 | 7.5 | 4.0 | 0.8 | 2.7 | 3.6 | 37. |
| Transfers overseas | | • | 29.4 | 0.3 15.9 | 14.3 | 6.7 | 3.2 | 2.4 | 0.: 72.0 |
| Grants for private capital purposes Grants to local authorities . | . : | • | 83.7 | 73.6 | 66.2 | 9.8 | 25.0 | 2.3 | 260. |
| Total transfer payments . | | | 492.9 | 479.9 | 260.3 | 151.9 | 140.4 | 74 | 1,598.8 |
| Net advances— | | | | | | | | | |
| To the private sector | | | 5.8 | 65.2 | 35.8 | 6.6 | 26.7 | 10.8 | 150.9 |
| To public financial enterprises To local authorities | | : | 52.0 5.6 | 5.0 0.3 | 11.7 | 25.9 0.5 | 0.1 | 0.1 | 82.9 17. |
| Total net advances | | | 63.5 | 70.6 | 47.5 | 31.9 | 26.8 | 10.9 | 251. |
| Total outlay | | | 3,605.5 | 2,875.9 | 1,572.8 | 1,082.5 | 1,068.1 | 442.0 | 10,646. |
| of which— | | | · | - | | · | | | • |
| current outlay capital outlay | | | 2,358.9 1,246.7 | 1,827.0 1,048.9 | 1,005.8 567.1 | 670.1 412.3 | 675.0 393.1 | 301.3 140.7 | 6,838. 3,808. |
| | RECEI | PTS | AND F | INANCII | NG ITE | MS | | ···· | |
| | | | | | | | | | |
| Receipts— Taxes, fees, fines, etc. | | | 1,124 8 | 843.9 | 310.2 | 235.5 | 203.7 | 63.7 | 2,781. |
| Income from public enterprises Interest, etc., received | : : | : | 44.6 113.7 | 83.4 89.4 | 18.3 83.7 | 21.2 36.7 | 25.9 69.6 | 11.4 14.8 | 204. 407. |
| Grants from the Australian Gover | nment- | | | | | | | | |
| for current purposes for capital purposes | | • | 1,178.3 455.2 | 915.0 348.5 | 614.1 242.6 | 441.2 150.9 | 403.2 143.8 | 183.3 68.6 | 3,735. 1,409. |
| Total receipts | | • | 2,916.6 | 2,280.2 | 1,268.9 | 885.4 | 846.I | 342.0 | 8,539 |
| Financing items— | | | -, | -, | -, | | 3.2.12 | 0,2,0 | 0,000 |
| Net borrowing— | | | 120.0 | | 12.2 | 22.2 | 40.4 | | 200 |
| Public corporation securities Other general government secur | ities | • | 138.9 16.6 | 181.0 0.7 | 12.2 44.7 | 22.2 4.0 | 28.4 3.2 | 13.5 0.6 | 396 69 |
| Advances from the Australian Go | vernmen | t(net) | _ | | | | | | |
| For loan works purposes . | | | 176.9 | 148.4 | 88.4 | 79.8 | 52.7 | 46.0 | 592 |
| Other | • | • | 205.4 2.2 | 158.3 110.0 | 91.5 20.4 | 87.3 2.7 | 60.6 11.0 | 29.7 6.3 | 632 152 |
| Reduction in cash and bank balan | ices . | : | 28.1 | -93.4 | 42.7 | -20.2 | 26.4 | 4.6 | 11 |
| Reduction in security holdings Other funds available (including | errors | and | -25.5 | -23.9 | -30.3 | 2.4 | 4.2 | -1.8 | 75 |
| omissions)— Depreciation allowances. | | | 105.0 | 80.6 | 28.6 | 21.1 | 27.4 | 8.7 | 271 |
| Other | : : | | 41.4 | | 5.8 | -2.2 | 8.1 | -7.6 | 79 |
| Total financing items | | | 688.9 | 595.7 | 303.9 | 197.1 | 222.0 | 100.0 | 2,107 |
| Total funds available | | | 3,605.5 | | 1,572.8 | 1,082.5 | 1,068.1 | | 10,646 |
| | • | • | 0,000.0 | -, | 2,0,2.0 | -,000 | 2,000.1 | | 20,040 |

⁽a) Excludes financial enterprises.

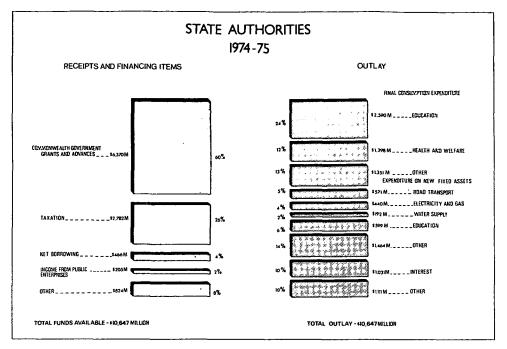


PLATE 43

Main components of outlay

The main component of the outlay of State authorities is expenditure on goods and services. As in the case of authorities of the Commonwealth Government, this expenditure consists mainly of final consumption expenditure, and expenditure on new fixed assets. The following tables show final consumption expenditure and expenditure on new fixed assets classified by purpose for State Authorities.

STATE AUTHORITIES: FINAL CONSUMPTION EXPENDITURE CLASSIFIED BY PURPOSE (\$ million)

| Purpose | _ | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|----------------------------------|-------|------|----------|------|-------|----|---------|---------|---------|---------|---------|
| General public services - | | | | | | | | | | | |
| Law, order and public safety | | | _ | _ | | | 235.9 | 276.3 | 321.6 | 395.8 | 546.5 |
| General administration, n.e.c. | · | • | | | | i. | 165.9 | 180.9 | 208.4 | 233.1 | 335.4 |
| Education | · | • | | | | Ċ | 961.0 | 1,147.2 | 1,367.2 | 1,778.8 | 2,590.1 |
| Health | • | | · · | | | Ċ | 432.9 | 499.3 | 580.5 | 790.5 | 1,198.2 |
| Social Security and Welfare . | • | • | | | | : | 41.1 | 48.9 | 59.1 | 68.4 | 100.1 |
| Housing and community ameniti | ics — | • | • | • | - | • | | ,,,, | | | |
| Housing | | | | | | | 1.1 | 1.6 | 1.7 | 2.1 | 2.9 |
| Community and regional deve | lonme | ent | | | | | 4.7 | 6.0 | 7.2 | 9.9 | 16.0 |
| Protection of the environment | and | comn | านกรี่เข | amen | ities | | 0.5 | 1.4 | 4.0 | 6.8 | 14.0 |
| | , | | | | | | 23.9 | 27.1 | 34.6 | 42.3 | 59.4 |
| Economic services— | • | • | • | - | | - | | | • | | |
| Agriculture, forestry, fishing | | | _ | | | | 105.4 | 125.2 | 154.0 | 180.7 | 222.5 |
| Mining, manufacturing and co | | | · | | | | 10.7 | 19.6 | 24.2 | 26.9 | 34.5 |
| Electricity, gas and water supp | lv | | | | | | -0.2 | 0.3 | 1.8 | 1.1 | 4.7 |
| Rail transport(a) | | | | | | | 0.7 | 1.7 | 2.4 | 0.3 | 1.3 |
| Sea transport | | • | | | | | 0.9 | 2.1 | 3.4 | 5.8 | 6.0 |
| Road transport(b) | | | | | | | 10.7 | 13.3 | 16.4 | 19.9 | 18.5 |
| Other transport services, n.e.c. | | | | | | | 1.3 | 1.4 | 1.7 | 2.2 | 2.6 |
| Other economic services(c) | | | | | | | 33.9 | 40.3 | 45.7 | 59.5 | 84.8 |
| Other purposes | | | | | | | 1.3 | 1.0 | 0.9 | 1.1 | 1.7 |
| Total | | | | | | | 2,031.7 | 2,393.5 | 2,834.5 | 3,625.2 | 5,239.3 |

⁽a) Includes suburban rail transport systems, general administration, regulation and research.

⁽b) Includes road systems and ancillary facilities.

STATE AUTHORITIES: FINAL CONSUMPTION EXPENDITURE CLASSIFIED BY PURPOSE 1974-75

(\$ million)

| ************************************** | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|--|------|------|-----------|---------|---|-------|-------|-------|---------------|
| General public services— | | | | | | | | | |
| Law, order and public saftey | | | 202.4 | 123.2 | 93.8 | 49.1 | 55.3 | 22.7 | 546. 5 |
| General administration, n.e.c. | | | 151.3 | 56.7 | 46.6 | 26.8 | 31.0 | 23.0 | 335.4 |
| Education | | | 900.5 | 765.2 | 323.6 | 270.6 | 234.0 | 96.2 | 2,590.1 |
| Health | | | 454.6 | 271.4 | 164.1 | 116.4 | 143.3 | 48.4 | 1,198.2 |
| Social security and welfare | | | 29.8 | 23.6 | 22.4 | 10.8 | 11.3 | 2.3 | 100.1 |
| Housing and community amenities— | | | | | | | | | |
| Housing | _ | | 1.1 | 0.6 | 0.1 | 0.4 | 0.3 | 0.4 | 2.9 |
| Community and regional development | | | 6.5 | 5.7 | | 2.5 | 1.1 | 0.2 | 16.0 |
| Protection of the environment, and con | ımıı | nitv | | * | • | | | | |
| amenities | | | 2.4 | 6.2 | 1.1 | 1.3 | 0.6 | 2.4 | 14.0 |
| Recreation and culture | • | • | 17.1 | 13.6 | 6.9 | 9.4 | 6.8 | 5.6 | 59.4 |
| Economic services— | • | • | • • • • • | 15.0 | 0.5 | 7.7 | 0.0 | 5.0 | 32.4 |
| Agriculture, forestry, fishing | | | 70.6 | 44.5 | 59.8 | 12.6 | 21.3 | 13.8 | 222.5 |
| Mining, manufacturing and construction | | • | 10.1 | 3.4 | 6.0 | 4.5 | 8.8 | 1.8 | 34.5 |
| Electricity, gas and water supply | • | ٠ | 1.1 | -0.6 | 1.1 | | 2.7 | 0.5 | 4.7 |
| D 11 comment of the | • | • | | 0.5 | | • • | 0.8 | | 1.3 |
| | • | • | 3.7 | | 1.7 | 0.5 | | • • • | 6.0 |
| Sea transport | • | • | 1.7 | 5.6 | 3.7 | 1.3 | 1.i | 5. i | 18.5 |
| Road transport(b) | • | • | 1.4 | 0.1 | 0.3 | 0.2 | 0.5 | | |
| Other transport services, n.e.c. | • | • | | | | | | 0.1 | 2.6 |
| Other economic services(c) | • | • | 11.5 | 26.9 | 14.4 | 11.1 | 15.6 | 5.2 | 84.8 |
| Other purposes | • | | 0.4 | 0.3 | | 0.7 | 0.2 | 0.1 | 1.7 |
| Total | | | 1,866.0 | 1,347.1 | 745.5 | 518.2 | 534.6 | 227.9 | 5,239.3 |

⁽a) Includes suburban rail transport systems, general administration, regulation and research.

STATE AUTHORITIES: EXPENDITURE ON NEW FIXED ASSETS CLASSIFIED BY PURPOSE (S million)

| | | | | | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|----------------------------------|--------------|---|-------|------|-------|---|---------|---------|---------|---------|---------|
| General public services— | | | | | | | | | | | |
| Law, order and public safety | | | | | | | 23.8 | 27.2 | 34.7 | 39.1 | 46.0 |
| General administration, n.e.c. | | | | | | | 20.3 | 15.8 | 19.5 | 29.3 | 44.2 |
| Education | | | | | ٠. | | 223.7 | 260.5 | 293.2 | 345.4 | 598.6 |
| Health | | | | | | | 85.2 | 93.0 | 97.0 | 123.1 | 201.8 |
| Social security and welfare . | | | | | | | 5.2 | 9.3 | 8.5 | 9.7 | 10.5 |
| Housing and community amenities | - | | | | | | | | | | |
| Housing | | | | | | | 96.5 | 78.4 | 77.0 | 120.0 | 281.8 |
| Community and regional develo | | | | | | | 2.5 | 1.9 | 1.1 | 1.8 | 8.0 |
| Protection of the environment, a | | | unity | amen | ities | | 141.1 | 173.2 | 208.3 | 241.7 | 297.2 |
| | | • | | | | | 16.4 | 25.2 | 30.1 | 20.8 | 19.1 |
| Economic services— | • | • | | | | • | • • • • | | | | |
| Agriculture, forestry, fishing | | | | | | | 97.7 | 104.0 | 102.6 | 109.8 | 149.3 |
| Mining, manufacturing and con- | | | · | · | • | • | 21.5 | 27.8 | 28.8 | 40.9 | 50.5 |
| | | | · | · | • | • | 308.6 | 313.6 | 317.2 | 338.9 | 439.7 |
| Water supply | : | | | • | • | • | 93.0 | 115.3 | 136.6 | 147.8 | 191.7 |
| Rail transport(a) | : | : | · | • | • | • | 122.7 | 137.5 | 138.8 | 137.8 | 214.0 |
| Sea transport | : | : | : | • | • | ٠ | 53.1 | 73.0 | 61.3 | 63.1 | 77.9 |
| Road transport(b) | : | : | : | | • | • | 353.4 | 392.8 | 416.9 | 458.2 | 570.7 |
| Other transport services, n.e.c. | | : | : | • | • | • | 13.0 | 11.4 | 8.2 | 6.8 | 21.5 |
| Other economic services(c) | • | • | • | • | • | • | 51.9 | 42.4 | 47.7 | 48.7 | 97.0 |
| Other purposes | • | • | • | • | • | • | 0.8 | 0.9 | 0.7 | 2.8 | 9.0 |
| Other purposes | • | • | • | • | • | • | 0.0 | 0.9 | 0.7 | 2.0 | 9.0 |
| Total | | | | | | | 1,730.4 | 1,903.6 | 2,028.2 | 2,285.8 | 3,328.8 |
| of which— | | | | | | | | | | | |
| Public financial enterprises | _ | | | | _ | | 33.8 | 26.0 | 24.6 | 27.5 | 62.9 |

⁽a) Includes suburban rail transport systems, general administration, regulation and research.

⁽b) Includes road systems and ancillary facilities.

⁽c) Includes

⁽b) Includes road systems and ancillary facilities.

⁽c) Includes

STATE AUTHORITIES: EXPENDITURE ON NEW FIXED ASSETS CLASSIFIED BY PURPOSE 1974-75

(S million)

| | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|------------------------------------|-----|-----|-------|---------|-------|-------|-------|-------|-------|---------|
| General public services— | | | _ | | | | | | | |
| Law, order and public safety. | | | | 13.7 | 8.4 | 9.1 | 4.0 | 5.5 | 5.2 | 46.0 |
| General administration n.e.c. | | | | 13.2 | 1.1 | 11.6 | 11.1 | 4.4 | 2.8 | 44.2 |
| Education | | | | 202.4 | 168.2 | 85.7 | 71.0 | 52.4 | 19.1 | 598.6 |
| Health | | | | 62.4 | 46.7 | 24.5 | 32.4 | 31.0 | 4.9 | 201.8 |
| Social security and welfare . | | Ċ | | 2.0 | 1.9 | 2.2 | 1.2 | 2.7 | 0.6 | 10.5 |
| Housing and community amenities- | • | • | • | | | | | , | 0.0 | |
| Housing | | | | 115.9 | 56.6 | 45.1 | 30.5 | 18.0 | 15.6 | 281.8 |
| Community and regional developm | ent | • | • | 2.2 | 1.7 | | 1.7 | 2.3 | 13.0 | 8.0 |
| Protection of the environment, and | | | nit v | 2.2 | | | • • • | 2.3 | • • • | 0.0 |
| amenities | | umu | iity | 134.5 | 108.8 | 0.3 | 18.7 | 34.9 | | 297.2 |
| Recreation and culture | • | • | • | 6.0 | 4.7 | 0.2 | 5.2 | 1.7 | 1.2 | 19.1 |
| Economic services— | • | • | • | 0.0 | 7.7 | 0.2 | 3.2 | 1.7 | 1.2 | 17.1 |
| Agriculture, forestry, fishing . | | | | 46.6 | 39.6 | 32.9 | 12.0 | 12.1 | 6.1 | 149.3 |
| | | . ' | • | 11.1 | 7.1 | 13.7 | 17.2 | 1.2 | 0.1 | 50.5 |
| Mining, manufacturing and constru | | | • | 79.0 | 127.3 | 116.5 | 31.1 | 50.5 | 35.3 | 439.7 |
| | • | • | • | | | -0.3 | 26.2 | 27.2 | 1.2 | 191.7 |
| | | | | 74.2 | 63.1 | | | | | |
| Rail transport(a) | • | | | 78.7 | 56.8 | 48.2 | 10.0 | 16.2 | 4.1 | 214.0 |
| Sea transport | | | | 22.7 | 21.4 | 6.9 | 6.7 | 13.3 | 7.0 | 77.9 |
| Road transport(b) | | | - | 190.6 | 135.3 | 113.1 | 49.6 | 61.4 | 20.6 | 570.7 |
| Other transport services n.e.c. | | | | 4.0 | 7.5 | 3.1 | 2.6 | 3.2 | 1.1 | 21.5 |
| Other economic services(c) . | | | | 22.9 | 19.3 | 38.6 | 4.1 | 8.7 | 3.4 | 97.0 |
| Other purposes | | | | 9.0 | | • • • | • • | | | 9.0 |
| Total | | | | 1,091.4 | 875.5 | 551.6 | 335.4 | 346.5 | 128.3 | 3,328.8 |
| of which— | | | | | | | | | | |
| Public financial enterprises . | | | | 4.7 | 11.3 | 35.0 | 3.7 | 6.4 | 1.8 | 62.9 |

⁽a) Includes suburban rail transport systems, general administration, regulation and research.

(c) Includes

Main components of receipts

The major source of funds available to State authorities is in the form of financial assistance by way of grants and advances from the Commonwealth Government. Taxation is also an important source of revenue, and central government borrowing by way of Commonwealth Government securities issued on behalf of the States as well as borrowing by statutory bodies accounted for a significant proportion of the total funds available, in marked contrast to the relatively minor role played by borrowing in financing the activities of the Commonwealth Government authorities.

Details of Commonwealth Government financial assistance to the States have already been given in the section dealing with Commonwealth Government authorities, and government borrowing activities are dealt with later in this chapter.

⁽b) Includes road systems and ancillary facilities.

The following tables provide details of the taxes collected by State authorities classified by type of tax. Further information relating to State taxes may be found in *Public Authority Finance; Taxation*, 1974–75.

STATE AUTHORITIES: TAXATION BY TYPE OF TAX
(\$ million)

| · · · · · · · · · · · · · · · · · · · | | | | | | | | |
|---------------------------------------|--------------|----------|------|---------|---------|---------|---------|---------|
| | | | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974–75 |
| Estate, gift, probate and | succession d | luties . | | 149.4 | 144.6 | 163.3 | 185.6 | 198.1 |
| Property taxes— Land tax | | | | 01.5 | 103.0 | 112.9 | 122.1 | 168.6 |
| | • • | • • | • | 91.5 | 102.8 | | 122.1 | |
| Métropolitan improves | | | • | 8.9 | 9.4 | 9.6 | | 12.8 |
| Other | • • | | • | 0.8 | 0.7 | 1.1 | 1.6 | 1.7 |
| Total property | | | | 101.2 | 112.9 | 123.6 | 135.9 | 183.1 |
| Liquor taxes | | | | 44.6 | 47.9 | 51.9 | 57.3 | 75.4 |
| Taxes on gambling— | | | | | | | | |
| Lotteries | | | | 33.3 | 35.4 | 38.0 | 48.8 | 69.7 |
| Poker machines . | | | | 34.8 | 38.3 | 42.6 | 50.8 | 71.9 |
| Racing | | | | 63.4 | 75.9 | 91.4 | 107.5 | 138.6 |
| Casino tax | | | | | | 0.5 | 1.6 | 1.8 |
| Total gambling | | | | 131.5 | 149.6 | 172.5 | 208.7 | 282.0 |
| Taxes on ownership ar vehicles→ | nd operation | n of m | otor | | | | | |
| Vehicle registration fee | es and taxes | | | 159.7 | 190.4 | 223.6 | 240.2 | 284.1 |
| Drivers', etc., licences | and fees | | | 19.4 | 25.1 | 27.8 | 29.2 | 43.1 |
| Stamp duty on vehicle | | | | 20.3 | 24.3 | 30.9 | 39.7 | 51.5 |
| Road transport taxes | | | | 16.4 | 17.1 | 17.6 | 17.2 | 15.1 |
| Road maintenance cor | | | • | 37.4 | 38.8 | 40.0 | 43.0 | 44.1 |
| Motor car third party | | | and | | | | | |
| duties | | | | 5.1 | 5.9 | 6.9 | 7.4 | 9.8 |
| Total motor vehicle | es . | | | 258.3 | 301.6 | 346.8 | 376.7 | 447.9 |
| Pay-roll tax | | | | | 304.7 | 449.I | 667.0 | 994.4 |
| Fire brigades contribu | utions from | n insur | ance | | | | | |
| | | | | 28.1 | 33.5 | 38.6 | 46.3 | 65.9 |
| Stamp duties, n.e.i. | | | | 240.3 | 249.6 | 351.1 | 430.9 | 390.1 |
| Fees from regulatory ser | vices n.e.i. | | | 7.6 | 9.3 | 11.7 | 14.3 | 18.8 |
| Other taxes, fees, fines, e | tc | | | 45.0 | 57.4 | 67.0 | 78.4 | 126.1 |
| Total taxation | | | | 1,006.2 | 1,411.1 | 1,775.5 | 2,201.2 | 2,781.8 |

STATE AUTHORITIES: PROPORTION OF EACH TYPE OF TAX TO TOTAL TAXATION (per cent)

| | 1970-71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|---|---------|---------|---------|---------|---------|
| Estate, gift, probate and succession duties | 14.8 | 10.2 | 9.2 | 8.4 | 7.1 |
| Property taxes | 10.2 | 8.0 | 7.0 | 6.2 | 6.5 |
| Liquor taxes | 4.4 | 3.4 | 2.9 | 2.6 | 2.7 |
| Taxes on gambling | 13.1 | 10.6 | 9.7 | 9.5 | 10.1 |
| Taxes on ownership and operation of motor | | | | | |
| vehicles | 25.6 | 21.4 | 19.5 | 17.1 | 16.1 |
| Pay-roll tax | | 21.6 | 25.3 | 30.3 | 35.7 |
| Fire brigades contributions from insurance | | | | | |
| companies, etc | 2.8 | 2.4 | 2.2 | 2.1 | 2.4 |
| Stamp duties n.e.i | 23.9 | 17.7 | 19.8 | 19.6 | 14.2 |
| Fees from regulatory services n.e.i | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Other taxes, fees, fines, etc | 4.5 | 4.0 | 3.7 | 3.5 | 4.5 |
| Total taxation | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

| STATE AUTHORITIES: | TAXATION | BY | TYPE | OF | TAX, | 1974-75 |
|--------------------|-----------|-----|------|----|------|---------|
| | (S millie | (no | | | | |

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|--|--------------|-------------|---|------------|------------|------------|----------------------|
| Estate, gift, probate and succession duties Property taxes— | 82.0 | 60.7 | 24.4 | 16.8 | 10.0 | 4.1 | 198.1 |
| Land tax | 81.2 | 52.9 | 7.7 | 12.7 | 10.5 | 3.7 | 168.6 |
| Metropolitan improvement rates . Other | 0.5 | 11.3 | • | 1.2 | 1.5 | • • | 12.8 1.7 |
| Total property | 81.7 | 64.1 | 7.7 | 13.8 | 12.0 | 3.7 | 183.1 |
| Liquor taxes | 28.9 | 21.9 | 10.4 | 5.4 | 6.9 | 1.9 | 75.4 |
| Lotteries | 25.6 | 28.8 | 7.4 | 4.0 | 3.9 | | 69.7 |
| Poker machines | 71.9 51.4 | 48.1 | 18.9 | 8.3 | 9.5 | 2.2 1.8 | 71.9 138.6 1.8 |
| Total gambling | 149.0 | 76.9 | 26.3 | 12.3 | 13.4 | 4.1 | 282.0 |
| Taxes on ownership and operation of motor vehicles— | | | | | | | |
| Vehicle registration fees and taxes . | 115.2 | 75.0 | 33.3 | 26.3 | 26.7 | 7.6 | 284.1 |
| Drivers' etc., licences and fees . | 21.4 | 12.7 | 2.1 | 3.1 | 2.8 | 1.0 | 43.1 |
| Stamp duty on vehicle registration . | 8.4 0.9 | 23.6 5.3 | 6.0 6.9 | 8.6 0.1 | 3.2 1.5 | 1.7 0.4 | 51.5 15.1 |
| Road transport taxes Road maintenance contributions | 20.8 | 10.0 | 5.1 | 4.1 | 4.2 | 0.4 | 15.1 44.1 |
| Motor car third party insurance | 20.0 | 10.0 | 3.1 | 7.1 | 7.2 | • • | 77.1 |
| surcharge and duties | | 5.2 | • • | 1.4 | 2.8 | 0.4 | 9.8 |
| Total motor vehicles | 166.7 | 131.7 | 53.4 | 43.6 | 41.1 | 11.2 | 447.9 |
| Pay-roll tax . Fire brigades contributions from insurance | 404.9 | 287.7 | 118.2 | 82.6 | 75.1 | 26.0 | 994.4 |
| companies, etc. | 18.0 | 20.2 | 13.5 | 4.5 | 7.6 | 2.1 | 65.9 |
| Stamp duties n.e.i. | 135.9 | 141.7 | 41.1 | 37.1 | 26.7 | 7.5 | 390.1 |
| Fees from regulatory services n.e.i. | 4.8 | 7.6 | 2.2 | 2.3 | 1.4 | 0.5 | 18.8 |
| Other taxes, fees, fines, etc | 53.0 | 32.2 | 13.4 | 17.2 | 8.3 | 2.2 | 126.1 |
| Total taxation | 1,125.1 | 844.9 | 310.5 | 235.5 | 202.5 | 63.2 | 2,781.8 |

LOCAL AUTHORITIES

In each State of Australia there exists a system of local government whose powers and responsibilities are in general similar, and cover such matters as the construction and maintenance of roads, streets and bridges, water, sewerage and drainage systems, health and sanitary services, the supervision of building, and the administration of regulations relating to items such as weights and measures, slaughtering, the registration of dogs, etc. In addition to these obligatory functions, there are also many which may be performed by a local authority either with or without the consent of the ratepayers or the Governor-in-Council. These include transport facilities, electricity, gas and other business undertakings, hospitals, charitable institutions, recreation grounds, parks, baths, libraries, museums, etc.

The system is based on the principle of a grant of specific powers by the State legislatures to the local authorities, their autonomy, however, being more or less limited by the provision for general supervision by a department of the central government or by the Governor-in-Council. Otherwise, within the scope of the Acts under which they are constituted or which they have to administer, they are responsible only to the ratepayers. While the broad pattern of local government throughout the States of Australia is similar, the range of activities, election of officers, methods of valuation and rating powers, etc., vary considerably from State to State, and even within States.

The areas over which local government bodies, numbering almost 900, exercise general control, are known in New South Wales as cities, municipalities and shires; in Victoria as cities, towns, boroughs and shires; in Queensland as cities, towns and shires; in South Australia as cities, corporate towns and district council areas; in Western Australia as cities, towns and shires; and in Tasmania as cities and municipalities. In New South Wales some local authorities in an area have combined to provide services such as electricity, water, sewerage and drainage—e.g. the county councils. Within shires there are also some municipal units known as urban areas. Apart from the more thinly populated parts of New South Wales and South Australia, and the Australian Territories (except for the City of Darwin and Alice Springs), practically the whole of Australia comes within local government jurisdiction. For further details see State Year Books.

Area, population, dwellings, and value of rateable property

The area, population, dwellings, and the value of rateable property in the incorporated areas of each State are shown in the following table. The valuations relate to rateable property only and exclude government and other non-rateable property, whose value in the aggregate is considerable. In some cases councils rate on annual value, or unimproved capital value, or improved capital value, or partly on each of these bases of valuation. The amounts stated are the totals for the areas rated according to each basis of valuation. Particulars of dwellings are in accordance with the definition used in the 1971 census, and are compiled from information collected on the census schedules. For the purpose of the census a dwelling was defined as any habitation occupied by a household group living together as a domestic unit, whether comprising the whole or only part of a building. The term has, therefore, a very wide reference and includes, in addition to houses and flats, a great variety of dwellings ranging from a single-roomed shack to a multi-roomed hotel or institution. Unoccupied dwellings include vacant dwellings available for sale and renting, 'week-end' and holiday dwellings, and other dwellings temporarily unoccupied on the night of the Census. Dwellings being built are not included.

In the following table particulars of number, area, and value of rateable property refer to estimates made, where practicable, for the capital city statistical division and outside this division. Wherever the statistical boundary cuts across a local government area the estimates have involved either the inclusion or exclusion of the whole of the local government authority concerned in, or from, the capital city statistical division. Particulars of population refer to estimates made for capital city statistical division and outside this division in accordance with the definition of boundaries used in the 1971 Census and exclude migratory population and population in unincorporated areas.

LOCAL GOVERNMENT AUTHORITIES: AREA, POPULATION, DWELLINGS, AND VALUE OF RATEABLE PROPERTY, STATES

| | | | | i | Value of rate | able property | |
|---|-----------|------------------|----------------------|--------------------------|-------------------------------------|------------------------------|--------------------|
| Location | Number | Area | Population | Dwellings | Unim- proved capital value | Improved capital value | Annual value |
| N. G. 10 W.L. (.) | | '000 hectares | '000 | No. | \$'000 | \$'000 | \$'000 |
| New South Wales(a)— Sydney Statistical Division Other(b) | 40 174 | 394 70,172 | (c)2,877 (c)1,866 | (d)966,774 (d)642,314 | 17,760,436 5,888,237 | n.a. n.a. | n.a. n.a. |
| Total New South Wales . | 214 | 70,565 | (c)4,743 | (d)1,609,088 | 23,648,673 | n.a. | n.a. |
| Victoria(e)— Melbourne Statistical Division. Other(f) | 56 155 | 782 21,925 | 2,640 987 | 844,692 322,582 | n.a. n.a. | 15,159,707 6,167,746 | 855,581 315,300 |
| Total Victoria | 211 | 22,707 | 3,627 | 1,167,274 | n.a. | 21,327,453 | 1,170,882 |
| Queensland(g)— Brisbane Statistical Division Other | 9 122 | 1,000 171,600 | 982 983 | 307,604 306,985 | 1,143,301 1,257,634 | n.a. n.a. | n.a. n.a. |
| Total Queensland | 131 | 172,600 | 1,965 | 614,589 | 2,400,935 | n.a. | n.a. |
| South Australia(h)— Adelaide Statistical Division Other • | 31 106 | 184 14,947 | 885 316 | 290,815 112,752 | n.a. n.a. | n.a. n.a. | n.a. n.a. |
| Total South Australia . | 137 | 15,131 | 1,201 | 403,567 | 400,114 | n.a. | 221,318 |
| Western Australia(i)— Perth Statistical Division Other | 26 112 | 537 252,226 | 763 332 | 246,707 99,543 | 1,209,782 376,458 | n.a. n.a. | 64,360 14,988 |
| Total Western Australia . | 138 | (j)252,550 | 1,095 | 346,250 | 1,586,240 | n.a. | 79,349 |
| Tasmania— Hobart Statistical Division Other | 5 44 | 94 6,739 | 164 242 | 51,723 80,197 | 329,610 289,579 | 1,093,499 1,223,526 | 74,059 73,354 |
| Total Tasmania | 49 | 6,833 | (k)406 | (k)131,920 | (1)619,189 | (1)2,317,025 | (1)147,413 |

⁽a) Based on year ended 31 December 1972. (b) Excludes Lord Howe Island, unincorporated areas and migratory population. (c) As at 30 June 1973. (d) As at 30 June 1973; Estimated on basis of Census 30 June 1971. (e) Based on year ended 30 September 1974. (f) Excludes Yallourn Works Area, under the jurisdiction of the State Electricity Commission, and other unincorporated areas. (g) Year ended 30 June 1974. Total population less migratory and unincorporated. (h) Year ended 30 June 1974. (i) Year ended 30 June 1973. Excludes unincorporated areas. (j) Area as determined in 1973 by the Division of National Mapping, Department of Minerals and Energy. (k) As at 30 June 1975. (l) As at 1 July 1974.

Receipts, financing items and outlay

The following tables show details of the receipts, financing items and outlay of all local authorities for the years 1970-71 to 1974-75, and of local authorities in each of the six States in 1974-75. Figures shown for 1974-75 are based on limited data, but may be taken as rough indicators of orders of magnitude.

LOCAL AUTHORITIES: RECEIPTS AND OUTLAY

| | (\$ million) | | | | |
|---|------------------|--------------|---------------|--------------|---------------|
| | 1970–71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
| | OUTLAY | | | | |
| Final consumption expenditure— | | | | | |
| General public services | . 80.3 | 90.7 | 97.8 | 120.8 | 160.5 |
| Education | . 1.2 . 15.0 | 1.6 18.3 | 2.0 21.8 | 2.9 25.5 | 3.9 32.0 |
| Social security and welfare | . 3.6 | 4.0 | 4.8 | 7.2 | 9.3 |
| Housing and community amenities— | . 5.0 | 1.0 | 1.0 | | 7.5 |
| Community and regional development . | . 2.5 | 3.1 | 3.7 | 6.4 | 10.5 |
| Protection of the environment | . 16.3 | 16.3 | 21.1 | 28.1 | 37.1 |
| Other | . 2.5 | 2.8 | 3.6 | 4.7 | 5.8 |
| Recreation and culture | . 49.7 . 17.4 | 58.8 18.9 | 71.9 20.6 | 78.1 26.0 | 101.0 35.6 |
| Other purposes | . 0.2 | 0.2 | 0.4 | 0.4 | 1.0 |
| Total | . 188.9 | 214.8 | 248.2 | 300.4 | 397.0 |
| • | . 100.9 | 214.0 | 240.2 | 300.4 | 397.0 |
| Gross capital formation— | | | | | |
| Expenditure on new fixed assets— | . 43.7 | 43.5 | 47.1 | 52.7 | 79.5 |
| General public services | . 0.3 | 0.4 | 0.3 | 0.7 | 0.8 |
| Health | . 0.6 | 0.7 | 0.5 | 0.9 | 1.0 |
| Social security and welfare | . 0.8 | 1.0 | 0.8 | 2.6 | 3.2 |
| Housing and community amenities— | | | | | |
| Community and regional development. | . 0.1 | 0.2 | 1.1 | 2.6 | 2.1 |
| Protection of the environment | . 45.9 | 53.0 | 62.9 | 65.1 | 92.2 |
| Other | . 0.8 | 0.9 | 1.3 | 2.4 | 3.8 |
| Recreation and culture | . 24.5 | 26.1 | 32.2 | 36.2 | 49.3 |
| Economic services— Mining manufacturing and construction | . 1.4 | 2.2 | 2.5 | 2.3 | 4.7 |
| Electricity and gas | 77.2 | 71.9 | 79.2 | 75.7 | 91. |
| Water supply | . 29.4 | 32.4 | 40.3 | 40.3 | 43.9 |
| Road transport(a) | . 251.6 | 279.9 | 318.3 | 358.5 | 457.4 |
| Other transport services n.e.c. | . 0.9 | 2.3 | 1.7 | 1.8 | 1.6 |
| Other economic services | . 3.5 | 3.6 | 1.9 | 1.8 | 2.5 |
| Other purposes | | • • | • • | •• | • • |
| Total | . 480.6 | 518.1 | 590.1 | 643.6 | 833.9 |
| Expenditure on existing assets and stocks . | 3.7 | 8.6 | 2.4 | 9.2 | 39.1 |
| nterest paid | . 93.8 | 104.9 | 116.8 | 128.2 | 142.0 |
| Net advances to the private sector | . 1.7 | 2.8 | 2.0 | 3.4 | 5.€ |
| Total outlay | . 761.2 | 849.3 | 959.4 | 1,084.7 | 1,417.6 |
| of which— | | | | | |
| Current outlay | . 282.7 | 319.7 | 365.0 | 428.6 | 539.0 |
| Capital outlay | 478.6 | 529.5 | 594.5 | 656.1 | 878.6 |
| | | | | | |
| RECEIPTS | AND FINANC | ING ITEM | S | | |
| Receipts— Taxes, fees, fines, etc.— | • | | | | |
| Rates on land | . 398.3 | 440.2 | 480.4 | 552.1 | 674.1 |
| Licences, etc. | . 11.3 | 12.7 | 16.2 | 21.0 | 23.3 |
| Total | . 409.6 | 452.9 | 496.6 | 573.1 | 697.4 |
| | . 76.5 | 79.1 | | 100.8 | 98.9 |
| Income from public enterprises Property income | . 11.4 | 13.8 | 103.1 15.7 | 24.9 | 43.4 |
| Grants from State and Federal authorities . | 96.8 | 120.6 | 170.3 | 156.4 | 314.5 |
| Total receipts | . 594.3 | 666.4 | 785.8 | 855.2 | 1,154.2 |
| • | . 394.3 | 000.4 | 705.0 | 033.2 | 1,154.2 |
| inancing items— | | | | 444.0 | 400 |
| Net borrowing—local authority securities Advances from State and Federal authorities | . 106.0 | 139.8 2.0 | 156.7 3.5 | 144.8 5.9 | 199.7 17.3 |
| Net receipts of private trust funds | . 1.8 | 1.1 | 12.3 | 5.9 | 6.0 |
| Reduction in cash and bank balances | 0.5 | -21.7 | -56.2 | -8.5 | 7.2 |
| Reduction in security holdings | 18.4 | -6.1 | -17.0 | -10.5 | -2.4 |
| Other funds available (including errors and | | | | | |
| omissions)— | | _ | 4.5 | | |
| Depreciation allowances | . 28.1 | 30.0 | 32.5 | 34.6 | 41.4 |
| Other | . 49.0 | 37.7 | 41.9 | 57.4 | -6.0 |
| Total forganina items | 167 ^ | 102 C | 172 7 | 220 € | 262 1 |
| Total financing items | . 167.0 | 182.9 | 173.7 | 229.5 | 263.2 |
| Total funds available | . 761.2 | 849.3 | 959.4 | 1,084.7 | 1,417.6 |
| | . ,01.2 | 047.0 | ,,,,, | 2,007.7 | 2,717.0 |

PUBLIC FINANCE

LOCAL AUTHORITIES: RECEIPTS AND OUTLAY, 1974-75 (\$ million)

| | | | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Tota |
|--|--|----------------------------|---------------------------|-----------------|--------|---|---|---|--|---|--|---|
| | | | _ | | | OUTL | .AY | | | | - | _ |
| Final consumption expen | diture | | | | | | | | | | | |
| General public services | unuio | | | | | 51.2 | 46.3 | 32.0 | 14.0 | 11.2 | 5.7 | 160.5 |
| Education | • | • | | | | 12.4 | 3.9 | 1.9 | | 2.4 | ٥. 9 | 3.9 |
| Health Social security and well | fare | • | • | • | • | 12.4 1.6 | 12.2 7.2 | 3.0 | 1.2 | 2.4 0.5 | 0.8 | 32.0 9.3 |
| Housing and communit | ty ame | nitie: | <u>.</u> | • | ٠ | 1.0 | 7.2 | • • • | •• | | •• | |
| Community and region | onal d | levelo | pmen | 1t | | 4.5 | 2.6 | 1.5 | 1.7 | 0.2 | | 10.: |
| Protection of the env | ironm | ent | ٠ | • | ٠ | 13.8 2.6 | 9.8 1.3 | 5.7 1.6 | 2.9 0.5 | 2.9 0.4 | -0.3 | 37. 6.: |
| Recreation and culture | : | : | : | • | : | 37.7 | 30.5 | 11.5 | 7.9 | 8.9 | 4.5 | 101.6 |
| Economic services | | | | | | 11.3 | 21.7 | -2.3 | 1.7 | 3.1 | 0.1 | 35. |
| Other purposes . | • | • | • | • | • | 0.9 | • • | • • | • • | •• | • • | 1.0 |
| Total | | • | • | | • | 136.0 | 135.4 | <i>53.2</i> | 30.1 | 29.6 | 12.7 | 397.0 |
| cross capital formation- | | | | | | | | | | | | |
| Expenditure on new fix General public service | | ets | | | | 19.6 | 38.3 | 10.8 | 3.7 | 5.4 | 1.7 | 79.5 |
| Education . | | : | : | • | : | 0.2 | 0.4 | | 3.7 | 0.2 | 1., | 0.8 |
| Health | ٠ | | | | | 0.3 | 0.3 | 0. i | | 0.4 | | 1.0 |
| Social security and w | | | | • | • | 1.5 | 0.4 | 0.2 | 0.7 | 0.4 | • • | 3.7 |
| Housing and commu Community and re | | | | nent | | 0.8 | | 0.4 | | 1.0 | | 2.1 |
| Protection of the e | | | | | : | 26.9 | 8.6 | 46.0 | 4.8 | 1.2 | 4.8 | 92.2 |
| Other | | | | | | 3.4 | | 0.4 | | | | 3.8 |
| Recreation and cultu Economic services— | re | • | • | • | • | 16.3 | 9.6 | 7.1 | 3.6 | 10.7 | 2.0 | 49.3 |
| Mining, manufactu | aring a | and c | onstr | uction | n . | 4.5 | 0.2 | | | | | 4.3 |
| Electricity and gas | | | | , | | 78.2 | 3.2 | 8.5 | 0.5 | 1.2 | | 91.1 |
| Water supply | • | | | | | 11.0 | 0.4 | 31.5 | 24.0 | 40.5 | 1.0 | 43.9 |
| Road transport(a) Other transport ser | rvices | n.e.c | • | • | : | 190.2 0.5 | 108.2 | 69.2 1.0 | 34.8 | 40.5 | 14.5 | 457.4 1.6 |
| Other economic se | | | : | : | : | 1.2 | 0.4 | 1.0 | | 0.9 | | 2.5 |
| Other purposes | • | | | | | •• | •• | | | | | |
| Total | | | | | | 354.4 | 160.0 | 175 2 | 40.2 | 61.0 | 24 1 | 922 (|
| Total | • | • | • | • | • | 334.4 | 169.9 | 175.3 | 48.2 | 61.9 | 24.1 | 833.9 |
| Expenditure on existing | ; assets | s and | stoc | ks | | 25.3 | 18.7 | -1.6 | 0.3 | -3.5 | | 39.1 |
| nterest paid | | | | | | 58.6 | 21.8 | 43.5 | 4.6 | 7.5 | 6.0 | 142.0 |
| Net advances to the priva | ate sec | tor | | ·. | ÷ | 5.6 | | | | | | 5.6 |
| Total autien | | | | | | | 245.0 | 250 4 | 02.2 | 05.5 | 43.0 | 1 415 4 |
| Total outlay . | • | • | • | • | • | 579.9 | 345.9 | 270.4 | 83.2 | 95.5 | 42.8 | 1,417.6 |
| of which— | | | | | | | | | | | | |
| | : | : | : | : | : | 194.6 385.3 | 157.2 188.7 | 96.7 173.7 | 34.7 48.5 | 37.1 58.4 | 18.7 24.1 | 539.0 878.6 |
| Current outlay . Capital outlay . | | | | | | | | | | | | 676.0 |
| | | | REC | CEIP | TS . | AND FI | NANCIN | IG ITEM | us | | | 676.1 |
| Capital outlay . | | | REC | CEIP | TS | | NANCIN | G ITEM | //S | | | 070.1 |
| Capital outlay . | - | | REC | CEIP | TS . | AND FI | | NG ITEM | /IS 51.0 | . 49.6 | 21.5 | |
| Capital outlay . Receipts— Taxes, fees, fines, etc.— | - : | · | REC | CEIP | TS . | | 211.9 5.6 | | | | | p674. |
| Capital outlay . Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc | - - | · | REC | CEIP | TS. | 260.1 7.4 | 211.9 5.6 | 80.0 6.5 | 51.0 0.8 | 49.6 | 21.5 | p674 p23 |
| Capital outlay | : | : | REC | CEIP | TS . | AND FI | 211.9 | 80.0 | 51.0 | . 49.6 | 21.5 | p674. p23. |
| Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en | · | : | REC | CEIP | TS . | 260.1 7.4 | 211.9 5.6 217.5 3.2 | 80.0 6.5 | 51.0 0.8 | 49.6 | 21.5 | p674. p23. |
| Capital outlay Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en Property income | | | | | : : | 260.1 7.4 267.5 52.7 24.9 | 211.9 5.6 217.5 3.2 8.0 | 80.0 6.5 86.5 39.8 8.0 | 51.0 0.8 51.8 0.2 1.2 | | 21.5 0.8 22.3 2.5 | p674. p23.: p697 98.: |
| Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en | | | | | TS | 260.1 7.4 267.5 52.7 | 211.9 5.6 217.5 3.2 | 80.0 6.5 86.5 39.8 | 51.0 0.8 51.8 0.2 | 49.6 2.2 51.8 0.4 | 21.5 0.8 22.3 | p674. p23. p697.4 98.9 |
| Capital outlay . Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc Total . Income from public en Property income . | Feder | | | | TS . | 260.1 7.4 267.5 52.7 24.9 | 211.9 5.6 217.5 3.2 8.0 | 80.0 6.5 86.5 39.8 8.0 | 51.0 0.8 51.8 0.2 1.2 | | 21.5 0.8 22.3 2.5 | p674. p23. p697. 98. 43. 314. |
| Capital outlay | Feder | ses | : thorit | ties | TS . | 260.1 7.4 267.5 52.7 24.9 108.3 | 211.9 5.6 217.5 3.2 8.0 79.9 | 80.0 6.5 86.5 39.8 8.0 76.6 | 51.0 0.8 51.8 0.2 1.2 14.2 | 49.6 2.2 51.8 0.4 1.3 31.0 | 21.5 0.8 22.3 2.5 4.5 | p674. p23.: p697 98.: 43 314.: |
| Capital outlay Federa | | thorit | ties | | 260.1 7.4 267.5 52.7 24.9 108.3 453.4 70.8 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 | p674. p23.: p697 98.: 43.: 314.: 1,154 |
| Capital outlay Federa author | ees al au | thorit | ties | | 260.1 7.4 267.5 52.7 24.9 108.3 453.4 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 | 51.0 0.8 51.8 0.2 1.2 14.2 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 | p674. p23. p697. 98. 43. 314 1,154 |
| Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en Property income Grants from State and Total receipts Financing items— Net borrowing—local a Advances from State a Net receipts of private | Federa author nd Fed trust f | ses al aut | thorit | ties | | 260.1 7.4 267.5 52.7 108.3 453.4 70.8 5.6 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 68.1 111.7 6.0 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 0.1 | p674. p23.: p697 98.! 43 314.: 1,154 |
| Capital outlay Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en Property income Grants from State and Total receipts Financing items— Net borrowing—local Advances from State a Net receipts of private Reduction in cash and Reduction in security h Other funds available | Federa author nd Fed trust f bank | rity sederal funds balan | thorit ecurit | ties orities | | 260.1 7.4 267.5 52.7 24.9 108.3 453.4 70.8 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 | p674. p23. p697. 98. 43. 314.: 1,154 |
| Capital outlay Capital outlay Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en Property income Grants from State and Total receipts | authornd Fectrust f bank coldings (incl | rity soderal funds balangs | thorit ecurit | ties orities | | 260.1 7.4 267.5 52.7 24.9 108.3 453.4 70.8 5.6 30.6 1.1 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 29.4 0.3 -0.9 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 68.1 111.7 6.0 -8.7 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 11.0 -0.5 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 0.1 | p674. p23.: p697 98.: 43.: 314.: 1,154 199.: 6.: 7.: -2.: |
| Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en Property income Grants from State and Total receipts Financing items— Net borrowing—local Advances from State and Net receipts of private Reduction in cash and Reduction in security h Other funds available omissions)— Depreciation allow | authornd Fectrust f bank coldings (incl | rity soderal funds balangs | thorit ecurit | ties orities | | 260.1 7.4 267.5 52.7 108.3 453.4 70.8 5.6 30.6 1.1 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 29.4 0.3 -0.9 -3.5 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 68.1 11.7 6.0 -8.7 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 11.0 -0.5 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 0.1 -0.5 0.1 | p674.1 p23.3 p697.4 98.5 43.4 314.2 1,154.2 199.7 6.6 7.2 2.4 |
| Capital outlay Capital outlay Capital outlay Capital | authornd Fectrust f bank coldings (incl | rity soderal funds balangs | thorit ecurit | ties orities | | 260.1 7.4 267.5 52.7 24.9 108.3 453.4 70.8 5.6 30.6 1.1 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 29.4 0.3 -0.9 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 68.1 111.7 6.0 -8.7 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 11.0 -0.5 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 0.1 | p674.1 p23.3 p697.4 98.5 43.4 314.2 1,154.2 199.7 6.6 7.2 2.4 |
| Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en Property income Grants from State and Total receipts Financing items— Net borrowing—local a Advances from State and Net receipts of private Reduction in cash and Reduction in security h Other funds available omissions)— Depreciation allow | author author de Fecture from the fectur | rity soderal funds balangs | thorit ecurit | ties orities | | 260.1 7.4 267.5 52.7 108.3 453.4 70.8 5.6 30.6 1.1 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 29.4 0.3 -0.9 -3.5 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 68.1 11.7 6.0 -8.7 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 11.0 -0.5 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 0.1 -0.5 0.1 | p674.1 p23.3 p697.4 98.5 43.4 314.5 1,154.2 199.1 7.2 6.0 7.2 -2.4 |
| Receipts— Taxes, fees, fines, etc.— Rates on land Licences, etc. Total Income from public en Property income Grants from State and Total receipts Financing items— Net borrowing—local: Advances from State and Net receipts of private Reduction in security h Other funds available omissions)— Depreciation allow Other | authornd Fectrust f bank holding (including) (ances | rity soderal funds balangs | thorit ecurit autho | ties orities | | 260.1 7.4 267.5 52.7 24.9 108.3 453.4 70.8 5.6 30.6 1.1 | 211.9 5.6 217.5 3.2 8.0 79.9 308.6 29.4 0.3 -0.9 -3.5 | 80.0 6.5 86.5 39.8 8.0 76.6 210.8 68.1 11.7 6.0 -8.7 | 51.0 0.8 51.8 0.2 1.2 14.2 67.4 11.0 -0.5 -15.5 | 49.6 2.2 51.8 0.4 1.3 31.0 84.5 | 21.5 0.8 22.3 2.5 4.5 29.3 8.2 0.1 -0.5 0.1 | p674.1 p23.3 p697.4 98.5 43.2 314.3 1,154.3 199.7 6.6 7.2 -6.6 263.3 |

ALL PUBLIC AUTHORITIES

In the following tables the transactions of the Commonwealth Government, State and Local authorities have been brought together and consolidated to provide details of the receipts and outlay of the public authority sector as a whole.

Summary of receipts and outlay

The receipts and outlay of all public authorities for the five year period ended 1974-75 are set out in the following table.

ALL PUBLIC AUTHORITIES(a): RECEIPTS AND OUTLAY (\$ million)

| | | _ | | | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-7 |
|--|--|-----------------------------|------------------------|---------------------|-----------|---------------------|--|---|--|--|---|
| | | | | | | (| DUTLAY | | | | |
| Final consumption ex | penditur | e | | | | | 4,191.6 | 4,783.5 | 5,456.2 | 6,668.7 | 9,211. |
| Gross capital formation Increase in stocks | on— | | | | | _ | 61.6 | -13.8 | -43.7 | 56.7 | 381. |
| Expenditure on new | v fixed as | sets | | | | | 2,871.2 | 3,233.9 | 3,402.0 | 3,902.3 | 5,454. |
| Expenditure on exis | sting asse | ts (n | et) | | • | • | 48.0 | 112.5 | 66.4 | 203.7 | 374. |
| Total gross cap | ital form | ation | | | | • | 2,980.8 | 3,332.7 | 3,424.7 | 4,162.7 | 6,209. |
| Transfer payments— | | | | | | | | | | | |
| Interest | | | | | | • | 831.8 | 909.0 | 1,008.4 | 1,069.2 | 1,281. |
| Transfers to person Subsidies | s | | | • | • | • | 1,857.8 285.6 | 2,173.4 405.4 | 2,697.7 350.1 | 3,321.1 329.8 | 4,607. 321. |
| Transfers overseas | | | • | • | • | • | 184.7 | 205.6 | 251.9 | 288.3 | 349. |
| Grants for private | capital p | urpos | ses | : | : | : | 59.5 | 65.5 | 84.9 | 106.8 | 169. |
| Total transfer p | | | | | | | 3,219.4 | 3,758.9 | 4,393.0 | 5,115.2 | 6,728. |
| _ | - | | | | | | ŕ | | • | • | · |
| Net advances— To the private sector | 15 | | | | | | 58.3 | 83.9 | 30.9 | 116.1 | 281. |
| To public financial | | es | • | : | • | : | 60.4 | 60.5 | 67.2 | 80.4 | 259. |
| To overseas . | | | | | | | 65.2 | -4.1 | 7.4 | 32.2 | 36. |
| Total net advan | ices . | | | | | | 183.9 | 140.3 | 105.5 | 228.7 | 577. |
| Total outlay | | | | | | | 10,575.6 | 12,015.4 | 13,379.4 | 16,175.3 | 22,726. |
| | | | | | | | | | | | |
| of which | | | | | | | | | | | |
| of which— Current outlay . Capital outlay . | : : | | : | : | : | : | 7,411.0 3,164.7 | 8,542.4 3,473.0 | 9,849.2 3,530.2 | 11,783.9 4,391.4 | |
| Current outlay . | : : | | RE | : ECE | : IPTS | : | 3,164.7 | | 3,530.2 | 11,783.9 4,391.4 | |
| Current outlay . Capital outlay . | : : | | RE | : ECE | : IPTS | : S AN | 3,164.7 | 3,473.0 | 3,530.2 | 11,783.9 4,391.4 | |
| Capital outlay . | : | | RE | : ECE | IPTS | : S AN | 3,164.7 D FINANC | 3,473.0 | 3,530.2 | 4,391.4 | 6,786. |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et | | ises | RE | : ECE | : IPTS | : S AN : | 3,164.7 | 3,473.0 CING ITEM 9,802.6 791.2 | 3,530.2 | 11,783.9 4,391.4 13,691.6 671.5 | 17,691 |
| Current outlay . Capital outlay . | enterpr | ises | RE | : ECE | : IPTS | : S AN : | 3,164.7 D FINANC 8,598.3 | 3,473.0 CING ITEM 9,802.6 | 3,530.2 IS | 13,691.6 | 17,691 |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et | enterpr | ises | RE | : ECE | IPTS | : S AN : | 3,164.7 D FINANC 8,598.3 682.1 | 3,473.0 CING ITEM 9,802.6 791.2 | 3,530.2 IS 10,742.5 772.8 | 13,691.6 671.5 | 17,691 |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts | enterpr | ises | RE | : ECE | IPTS | : S AN : | 3,164.7 D FINANC 8,598.3 682.1 277.4 | 9,802.6 791.2 297.7 | 3,530.2 IS 10,742.5 772.8 339.0 | 13,691.6 671.5 418.4 | 17,691 |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receipts Financing items— Net borrowing— | enterpr | ises | RE | : ECE : : | IPTS | : S AN : : | 8,598.3 682.1 277.4 9,557.8 | 9,802.6 791.2 297.7 10,891.5 | 3,530.2 IS 10,742.5 772.8 339.0 11,854.3 | 13,691.6 671.5 418.4 14,781.5 | 17,691 |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, el Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes | ed . | | | | IPTS | : S AN : : | 8,598.3 682.1 277.4 9,557.8 | 9,802.6 791.2 297.7 10,891.5 | 3,530.2 IS 10,742.5 772.8 339.0 11,854.3 | 13,691.6 671.5 418.4 14,781.5 | 17,691. 551. 538. 18,781. |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth 6 | enterpried . | nent s | · | ities | | : | 8,598.3 682.1 277.4 9,557.8 | 9,802.6 791.2 297.7 10,891.5 | 3,530.2 IS 10,742.5 772.8 339.0 11,854.3 164.6 665.5 | 13,691.6 671.5 418.4 14,781.5 | 17,691 . 551 . 538 . 18,781 . |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth 6 Local authority a | enterpried | nent s | | ities | | : | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 | 3,473.0 CING ITEM 9,802.6 791.2 297.7 10,891.5 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 | 13,691.6 671.5 418.4 14,781.5 | 17,691 . 551 . 538 . 18,781 . 1,689 . 554 . 618 . |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth & Local authority a Other general Go | Governmen | nent s | | ities | | : | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 | 9,802.6 791.2 297.7 10,891.5 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 | 17,691 |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth (Local authority a Other general Go | Governmend public overnmend wing | nent sic cor | | ities | | : | 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 | 9,802.6 791.2 297.7 10,891.5 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 | 17,691. 551. 538. 18,781. 1,689. 554. 618. 69. 2,931. |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth 6 Local authority a Other general Go Total net borro Net receipts of priv | Government wing | nent sic cor | | ities tion | | : | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 | 3,473.0 CING ITEM 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 168.8 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 | 17,691 551 538 18,781 1,689 554 618 69 2,931 |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth (Local authority a Other general Go- | Governmend public overnmend wing water trust and bank | nent sic cornt sec | | ities tion | | : | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 | 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 -544.4 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 | 17,691. 551. 538. 18,781. 1,689. 554. 618. 69. 2,931. |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth & Local authority a Other general Go Total net borro Net receipts of priv Reduction in cash a Reduction in sesse a | Government of trust | nent sic cornt sec | ecur pora uritie | ities tion es | secur | rities | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 | 3,473.0 CING ITEM 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 168.8 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 | 17,691. 551. 538. 18,781. 1,689. 554. 618. 69. 2,931. |
| Current outlay . Capital outlay . Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth 6 Local authority a Other general Go Total net borro Net receipts of priv Reduction in cash a Reduction in securi Other funds av | Government of trust | nent sic cornt sec | ecur pora uritie | ities tion es | secur | rities | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 | 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 -544.4 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 | 17,691. 551. 538. 18,781. 1,689. 554. 618. 69. 2,931. |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth & Local authority a Other general Go Total net borro Net receipts of priv Reduction in cash a Reduction in securi Other funds av omissions)— | Governmend public powernmend public powernmen wing sate trust and bank ty holdinailable | fund t balangs (inclu | ecur pora uritie | ities tion es | secur | rities | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 133.1 -210.8 -163.5 | 3,473.0 CING ITEM 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 168.8 -684.9 -103.6 | 3,530.2 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 -544.4 -181.7 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 17.8 -829.6 -132.4 | 17,691. 551. 538. 18,781. 1,689. 554. 618. 69. 2,931. 242. 575. 575. |
| Current outlay . Capital outlay . Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth 6 Local authority a Other general Go Total net borro Net receipts of priv Reduction in cash a Reduction in securi Other funds av | Governmend public powernmend public powernmen wing sate trust and bank ty holdinailable | fund t balangs (inclu | ecur pora uritie | ities tion es | secur | rities | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 133.1 -210.8 -163.5 | 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 -544.4 -181.7 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 17.8 -829.6 -132.4 | 17,691. 551. 558. 18,781. 1,689. 554. 618. 69. 2,931. 242. 575. 595. |
| Current outlay Capital outlay Capital outlay Taxes, fees, fines, et Income from public Interest, etc., receiv Total receipts Financing items— Net borrowing— Treasury notes Commonwealth e Local authority a Other general Go Total net borro Net receipts of priv Reduction in cash a Reduction in cash a Reduction in securior Other funds av omissions)— Depreciation Other | Governmend of the control of the con | fund t balangs (inclu | ecur pora uritie | ities tion es | secur | rities | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 133.1 -210.8 -163.5 | 3,473.0 CING ITEM 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 168.8 -684.9 -103.6 | 3,530.2 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 -544.4 -181.7 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 17.8 -829.6 -132.4 | 17,691 551 538 18,781 1,689 504 69 2,931 242 575 -595 |
| Current outlay . Capital outlay . Receipts— Taxes, fees, fines, et Income from public Interest, etc., receipts Financing items— Net borrowing— Treasury notes Commonwealth 6 Local authority a Other general Go Total net borro Net receipts of priv Reduction in cash a Reduction in cash a Reduction in securio Other funds av omissions)— Depreciation | Government of the control of the con | fund t balangs (inclu | ecur pora uritie | ities tion es | secur | rities | 3,164.7 D FINANC 8,598.3 682.1 277.4 9,557.8 17.9 260.1 344.9 57.1 680.0 133.1 -210.8 -163.5 | 3,473.0 CING ITEM 9,802.6 791.2 297.7 10,891.5 -9.7 616.7 479.8 55.1 1,141.9 168.8 -684.9 -103.6 | 3,530.2 1S 10,742.5 772.8 339.0 11,854.3 164.6 665.5 485.3 41.6 1,357.0 221.0 -544.4 -181.7 | 13,691.6 671.5 418.4 14,781.5 -37.8 801.2 506.6 61.7 1,331.7 17.8 -829.6 -132.4 | 17,691. 551. 558. 18,781. 1,689. 554. 618. 69. 2,931. 242. 575. 595. |

⁽a) Excluding financial enterprises.

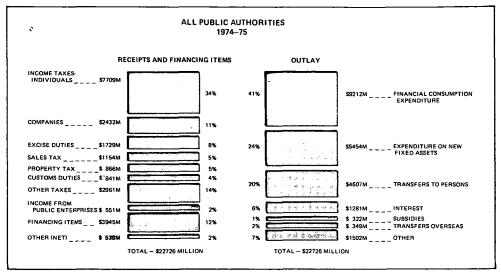


PLATE 44

Main components of outlay

The following tables show final consumption expenditure and expenditure on new fixed assets of all public authorities classified by purpose for the years 1970–71 to 1974–75.

ALL PUBLIC AUTHORITIES: FINAL CONSUMPTION EXPENDITURE CLASSIFIED BY PURPOSE

(\$ million)

| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--|--------|---|---|---------|---------|---------|---------|---------|
| General public services— | | | | | | | | |
| General administration, n.e.c | | | | 480.2 | 552.2 | 624.6 | 762.0 | 1,021.2 |
| External affairs | | | | 40.1 | 45.4 | 50.4 | 58.9 | 84.8 |
| Law, order and public safety . | | | | 261.5 | 308.1 | 360.6 | 447.5 | 624.8 |
| General research | | | Ċ | 59.8 | 68.4 | 76.9 | 94.2 | 116.7 |
| Defence | • | | | 1.062.8 | 1,128.0 | 1,179.3 | 1,223.1 | 1,445.0 |
| Education | • | • | · | 1,017.6 | 1,212.8 | 1,449.7 | 1,894.1 | 2,766.1 |
| Health | • | • | | 563.7 | 655.3 | 759.6 | 1,022.7 | 1,534.0 |
| Social security and welfare | • | • | • | 95.1 | 113.9 | 141.2 | 180.0 | 280.5 |
| Housing and community amenities— | • | • | • | 93.1 | 113.7 | 141.2 | 100.0 | 200.2 |
| Laurina | | | | 1.5 | 3.1 | 5.0 | 9.8 | 15.5 |
| | | • | • | 14.8 | 16.4 | 21.9 | 36.7 | 59.6 |
| Community and regional developm Protection of the environment | ent | • | • | | 19.3 | 27.2 | | |
| | • | • | • | 18.4 | | | 38.3 | 54.6 |
| Community amenities | • | • | | 2.3 | 2.9 | 3.9 | 5.1 | 8.1 |
| Recreation and culture | • | • | • | 150.2 | 173.4 | 205.8 | 255.5 | 341.4 |
| Economic services— | | | | | | | | |
| Agriculture, forestry, fishing | . • | | | 173.3 | 199.6 | 239.3 | 267.5 | 328.9 |
| Mining, manufacturing and constru | action | | | 21.3 | 30.9 | 36.5 | 43.6 | 56.8 |
| Electricity, gas and water supply | | | | -0.2 | 0.3 | 1.8 | 1.1 | 4.7 |
| Transport and communication . | | | | 73.0 | 89.0 | 104.5 | 126.2 | 147.1 |
| Other economic services(a) . | | | | 155.5 | 164.2 | 167.4 | 201.0 | 276.4 |
| Other purposes | | | | 0.9 | 0.5 | 0.4 | 1.7 | 45.7 |
| Total | | | | 4,191.6 | 4,783.5 | 5,456.1 | 6,668.8 | 9,211. |

⁽a) Includes general administration, regulation and research.

ALL PUBLIC AUTHORITIES: EXPENDITURE ON NEW FIXED ASSETS CLASSIFIED BY PURPOSE

(\$ million)

| | _ | <u> </u> | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--|----|----------|---------|---------|---------|---------|---------|
| General public services— | | | | | | | |
| General administration | _ | | 82.5 | 82.2 | 104.0 | 126.0 | 181.9 |
| External affairs | | • | 2.3 | 3.5 | 15.4 | 12.3 | 15.9 |
| Law, order and public safety | • | • | 25.9 | 29.9 | 37.7 | 42.5 | 53.6 |
| General research | • | • | 13.1 | 10.1 | 9.4 | 15.1 | 20.6 |
| Education | • | • | 246.0 | 286.0 | 323.6 | 378.2 | 644.6 |
| Health | • | • | 101.9 | 115.2 | 116.9 | 146.1 | 243.2 |
| Social security and welfare | • | • | 12.2 | 12.9 | 11.7 | 23.0 | 22.8 |
| Housing and community amenities— | • | • | 12.2 | 12.9 | 11.7 | 23.0 | 22.0 |
| Housing | | | 110.1 | 85.0 | 81.1 | 124.3 | 307.9 |
| Community and regional development | • | • | 19.0 | 24.5 | 28.0 | 38.8 | 60.2 |
| Protection of the environment | • | • | 189.3 | 230.1 | 277.7 | 317.5 | 409.7 |
| Community amenities | | • | 0.8 | 0.4 | 0.5 | 0.5 | 0.9 |
| Recreation and culture | • | • | | | 75.9 | 77.7 | 99.2 |
| Economic services— | • | • | 53.1 | 66.3 | 13.9 | 11.1 | 99.2 |
| | | | 100.0 | 100.3 | 110.1 | 110.2 | 162.6 |
| Agriculture, forestry and fishing | | | 100.0 | 108.2 | 119.1 | 119.2 | 162.8 |
| Mining, manufacturing and construction | n. | • | 24.7 | 32.0 | 33.6 | 45.5 | 62.0 |
| Electricity and gas | | • | 422.3 | 409.4 | 419.6 | 439.0 | 553.7 |
| Water supply | | | 129.0 | 155.4 | 180.6 | 192.6 | 239.4 |
| Rail transport(a) | | | 136.0 | 154.7 | 149.3 | 145.3 | 227.5 |
| Sea transport | | | 60.9 | 89.8 | 85.5 | 75.1 | 134. |
| Road transport(b) | | | 626.4 | 691.2 | 759.1 | 842.7 | 1,056.9 |
| Air transport | | | 96.3 | 176.3 | 60.1 | 85.8 | 97.0 |
| Pipelines | | | 3.6 | 2.6 | 12.1 | 56.3 | 59.3 |
| Other transport services, n.e.c. | | | 12.5 | 13.6 | 9.6 | 10.5 | 23.8 |
| Communications | | | 374.4 | 426.7 | 460.3 | 559.1 | 717.5 |
| Other economic services(c) | | | 76.2 | 77.0 | 83.2 | 76.0 | 136. |
| Other purposes | | | 0.8 | 0.9 | 0.7 | 2.8 | 15. |
| Total | | | 2,919.5 | 3,283.7 | 3,454.9 | 3,951.8 | 5,547.9 |
| of which- | | | | | | | |
| Public financial enterprises | | | 48.2 | 49.7 | 52.9 | 49.3 | 93.9 |

⁽a) Includes suburban rail transport system. administration, regulation and research.

Main components of receipts

Taxes and net borrowing constitute the main sources of financing of the activities of the public authorities. Details of the debt of public authorities are given in the next section of this chapter. Taxation, by type of tax, for the years 1970-71 to 1974-75 was as follows.

ALL PUBLIC AUTHORITIES: TAXATION, BY TYPE OF TAX
(\$ million)

| · | | | | | | | 1070 73 | 1073.74 | 1074 76 |
|--------------------------------|--------|--------|-------|------|---------|---------|---------|---------|---------|
| - | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| Income tax— | | | | | | | | | |
| Individuals | | | | | 3,175 | 3,765 | 4,084 | 5,485 | 7,709 |
| Companies(a) | | | | | 1,427 | 1,520 | 1,617 | 2,013 | 2,432 |
| Estate, gift, probate and suc | cessio | n duti | ies . | | 227 | 220 | 237 | 261 | 278 |
| Customs duties | | | | | 466 | 469 | 513 | 604 | 840 |
| Excise duties | | | | | 1.054 | 1.213 | 1,268 | 1,555 | 1,729 |
| Sales tax | | | | | 633 | 681 | 765 | 969 | 1,154 |
| Primary production taxes | | | | | 27 | 28 | 35 | 64 | 143 |
| Payroll tax | | | • | | 248 | 396 | 455 | 675 | 1,010 |
| Property taxes | | | | | 502 | 559 | 611 | 695 | 866 |
| Liquor taxes | | | | | 45 | 49 | 53 | 58 | 77 |
| Taxes on gambling . | | | | | 132 | 150 | 173 | 209 | 282 |
| Taxes on ownership and | opera | ation | of m | otor | | | | | |
| vehicles | ٠. | | | | 260 | 304 | 349 | 380 | 452 |
| Stamp duties, n.e.i | | | | | 243 | 252 | 355 | 435 | 394 |
| Other taxes, fees, fines, etc. | | | | | 160 | 198 | 227 | 287 | 326 |
| Total | | | | | 8,598 | 9,803 | 10,742 | 13,692 | 17,692 |

⁽a) Taxes paid by Commonwealth Government public enterprises have been offset. Includes dividend and interest (withholding) taxes.

⁽b) Includes road systems and ancilliary facilities.

⁽c) Includes general

Level of government

In the following tables details are given for 1974-75 of the receipts and outlay of all public authorities, broken down by level of government in order to show their relative contributions to various expenditure programs, and their roles in financing these programs through taxes and transfers.

ALL PUBLIC AUTHORITIES(a): RECEIPTS AND OUTLAY BY LEVEL OF GOVERNMENT, 1974-75 (\$ million)

| | | | | | Federal authorities | State authorities | Local authorities | All public authorities |
|---|---|---|-----|----|------------------------|---|---|---------------------------|
| | | 0 | UTL | AY | | | | |
| Expenditure on goods and services— | | | | | | | | |
| General public services— | | | | | | | | |
| General administration, n.e.c. | • | | • | • | 593.0 | 373.2 | 236.9 | 1,203. |
| External affairs | • | • | • | • | 100.7 82.8 | 592.5 | 3. i | 100. |
| Law, order and public safety General research | • | | • | • | 130:8 | 6.4 | | 678. 137. |
| Defence | • | • | • | • | 1,444.2 | 0.4 | • • | 1,444. |
| Education | • | • | • | • | 217.2 | 3,188.8 | 4.7 | 3,410. |
| Health | : | • | : | : | 344.2 | 1,400.0 | 33.0 | 1,777. |
| Social security and welfare | · | | · | | 180.2 | 110.6 | 12.5 | 303. |
| Housing and community amenities- | | | | | | | | |
| Housing | | | | | 35.2 | 284.7 | 3.5 | 323. |
| Community and regional development | | | | | 83.2 | 24.0 | 12.6 | 119. |
| Protection of the environment | | | • | | 26.1 | 309.1 | 129.3 | 464. |
| Community amenities | • | | • | | 0.3 | 2.1 | 6.5 | 9. |
| Recreation and Culture | • | • | • | • | 211.8 | 78.5 | 150.3 | 440. |
| Economic services— | | | | | 114.7 | 371.8 | 5.0 | 491. |
| Agriculture, forestry and fishing . | • | • | • | • | 24.7 | 85.0 | 9.0 | 118. |
| Mining, manufacturing and construction Electricity, gas and water supply . | • | • | • | • | 26.1 | 636.1 | 135.6 | 797. |
| Transport and communication | • | • | • | • | 1,067.3 | 913.4 | 483.2 | 2,463. |
| Other economic services | • | • | • | • | 227.6 | 180.9 | 4.6 | 413. |
| Other purposes | | : | · | ÷ | 50.3 | 10.0 | 1.0 | 61. |
| Total | | | | | 4,960.7 | 8,568.0 | 1,231.0 | 14,759. |
| less expenditure by public financial enterprise | | • | • | • | -31.0 | -62.9 | 1,251.10 | -93. |
| | | • | • | • | 4,929.7 | 8,505.1 | 1,231.0 | |
| Total expenditure on goods and services | | • | • | • | 4,929.7 | 0,303.1 | 1,231.0 | 14,665. |
| of which— | | | | | | | | |
| Final consumption expenditure Expenditure on new fixed assets | : | : | : | : | 3,575.5 1,354.2 | 5,239.3 3,265.9 | 397.0 833.9 | 9,211. 5,454. |
| Impropos in stanta | | | | | 313.5 | 55.1 | 12.7 | 381. |
| Increase in stocks Expenditure on existing assets (net) | : | : | : | : | 111.1 | 236.6 | 26.4 | 374. |
| Transfer payments— | | | | | 400.4 | 4 000 = | | |
| Interest | • | | | • | 108.4 | 1,030.7 | 142.0 | 1,281. |
| Transfers to persons | | • | | • | 4,409.3 | 197.7 | • • | 4,607. |
| Subsidies | • | • | • | • | 284.0 348.7 | 37.6 0.3 | • • | 321. |
| | • | • | | | 97.4 | 72.0 | • • | 349. 169. |
| Grants for private capital purposes. Grants to the States—for current purposes | • | • | | • | 3,735.0 | 72.0 | :: | (6 |
| —for capital purposes | • | • | • | • | 1,409.7 | • | • | ii. |
| Grants to local authorities | | ÷ | | | 53.9 | 260.6 | | ũ |
| Total transfer payments | | | | | 10,446.4 | 1,598.8 | 142.0 | 6,728. |
| | | | | | | | | |
| | | | | | 124.9 | 150.9 | 5.6 | 281. |
| The private sector | | | | | 176.7 | 82.9 | | 259. |
| The private sector Public financial enterprises | | | | | | | | |
| The private sector | | : | : | | 1,224.9 | : | • • | |
| The private sector Public financial enterprises The States Local authorities | : | : | : | : | | 17.3 | | (t |
| The private sector | : | : | : | : | 36.1 | 17.3 | | (i |
| The private sector Public financial enterprises The States Local authorities | | : | • | : | | | | 36. |
| Public financial enterprises The States Local authorities Overseas | | : | : | : | 36. i | •• | • • | 36. 577. |
| The private sector Public financial enterprises The States Local authorities Overseas Total net advances | | | : | : | 36. i 1,562. 6 | 251.1 | 5.6 | 577. 22,726. |

⁽a) Excluding financial enterprises. (b) In consolidated figures for all public authorities inter-authority grants and advances are not shown.

ALL PUBLIC AUTHORITIES(a): RECEIPTS AND OUTLAY BY LEVEL OF GOVERNMENT, 1974-75—continued

(\$ million)

| | | | | Federal Authorities | State authorities | Local authorities | All public authorities |
|--|----------|------------|--------|---|----------------------|---|------------------------|
| | RI | ECEIPTS | AND | FINANCING | ITEMS | | |
| teceipts | | | | | | | |
| Taxes, fees, fines, etc | | | | | | | |
| Income tax— | | | | 7 700 6 | | | 7 709 6 |
| Individuals | • | | • | 7,708.6 2.432.1 | • • | • • | 7,708.6 2,432.1 |
| Companies(b) | ession | duties | • | 80.0 | 198. i | • | 278.0 |
| Customs duties | | i duties. | • | 840.5 | 150.1 | | 840. |
| Excise duties | · | | | 1,728.6 | • • | | 1,728.6 |
| Sales tax | | | | 1,154.3 | | | 1,154. |
| Payroll tax Primary production taxes an Property taxes | | | | 15.5 | 994.4 | • • | 1,009.9 |
| Primary production taxes an | d char | ges . | • | 143.4 8.8 | 183. i | 674. i | 143.4 865.9 |
| Liquor taxes | • | | • | 1.3 | 75.4 | 0/4.1 | 76. |
| Taxes on gambling . | • | • | • | | 282.0 | • | 282.0 |
| Taxes on ownership and o | operati | ion of m | otor | • • | | | |
| vehicles | | | | 4.2 | 447.9 | | 452. |
| | | | | 3.7 | 390.1 | • • | 393. |
| Broadcasting listeners' and | l telev | ision view | ers' | 10.0 | | | 18. |
| licences | | | • | 18.8 8.2 | 18.8 | 14.2 | 41. |
| Fees from regulatory service: Other taxes, fees, fines, etc. | s . | | • | 64.5 | 192.0 | 9.1 | 265. |
| | | • • | • | | | 697.4 | 17,691. |
| Total taxes, etc | | | • | 14,212.5 | 2,781.8 | | • |
| Income from public enterprises | | | | 247.7 | 204.8 | 98.9 | 551. |
| Interest, etc., received . | | | | 87.4 | 407.9 | 43.4 | 538. |
| Grants from the Commonweal For current purposes | | | | | 3,735.0 | | (|
| For capital purposes . | • | | • | • | 1,409.7 | • | i i |
| Direct grants from Commonwe | ealth C | overnmei | nt to | •• | •, ••• | | |
| local authorities | | | | | | 53.9 | 9 |
| Grants from State Authorities | | | | | | 260.6 | (4 |
| Total Receipts . | | | | 14,547.6 | 8,539.3 | 1,154.2 | 18,781 . |
| inancing items— | - | - | | • | - | | |
| Net borrowing— | | | | | | | |
| | | | | 1.689.1 | | | 1,689. |
| Commonweath government | securi | ties . | | 554.1 | | | 554. |
| Local authorities and public of | corpor | ation secu | rities | 22.1 | 396.3 | 199.7 | 618. 69. |
| Other general government se | ecuritie | es | | • • | 69.8 | • • | |
| Total net borrowing | | | | 2,265.3 | 466.1 | 199.7 | 2,931 . |
| Advances from the Commonw | ealth. | Governme | nt | | | | |
| For loan works purposes | | | | | 592.1 | | (|
| Other | | | | | 632.8 | | (|
| A dua - asa f-a Cara | es . | | | | | 17.3 | 242 |
| Net receipts of private trust fu | nds | | • | 83.8 | 152.5 | 6.0 7.2 | 242 575 |
| Net receipts of private trust fu Reduction in cash and bank b Reduction in security holdings | alance. | s | • | 579.6 518.2 | -11.9 -75.0 | -2.4 | - 595 |
| Other funds available (including | ng erro | ore and | • | -318.2 | 15.0 | 4.4 | 5,5 |
| omissions)— | ing Cill | Jis and | | | | • | |
| Depreciation allowances | | | | 279.0 | 271.3 | 41.4 | 591. |
| Other | | | | 126.2 | 79.6 | -6.0 | 200. |
| Total financing items | | | | 2,815.7 | 2,107.5 | 263.2 | 3,944 |
| | • | | • | • | • | 1,417.6 | 22,726. |
| Total funds available | • | | | 17,363.3 | 10,646.8 | 1,417.0 | 22,120. |

(a) Excluding financial enterprises. (b) Taxes paid by Commonwealth Government public enterprises have been offset. Includes dividend and interest (withholding) taxes. (c) In consolidated figures for all public authorities interauthority grants and advances are not shown.

PUBLIC SECTOR BORROWING

Figures given in this section do not purport to show either 'public debt' or 'net public debt', but are designed to provide details of securities issued on behalf of the Commonwealth Government and the States, together with details of securities issued and other forms of debt outstanding in respect of local authorities and State authorities with independent borrowing powers.

This information cannot be aggregated, without adjustment, to provide a measure of the 'debt' of public authorities for a number of reasons. There are forms of debt not evidenced by the issue of securities, such as Commonwealth Government advances to the States for specific capital purposes—of which the advances made under the Commonwealth-State Housing Agreements would be the most important example. Governments themselves maintain significant holdings of their own securities: for example, the Commonwealth Government, in the National Debt Sinking Fund, the Loan Consolidation and Investment Reserve, and in other Trust Funds, holds large

investments in securities issued either directly by itself or on behalf of the States. Some of the securities issued on behalf of the States and held by the Commonwealth Government represent the proceeds of overseas loans, securities for which were issued directly by the Commonwealth Government—the Australian currency counterpart proceeds of the loans being invested in special loans to finance State works programs. A number of State public corporations and local authorities also maintain significant investments in government securities (including their own securities). Aggregation of the figures for securities on issue which follow would clearly involve a substantial degree of duplication; the sum of securities on issue therefore cannot be regarded as representing 'net public debt'.

Commonwealth Government and States: Loan transactions and Government securities on issue

Under the 1927 Financial Agreement between the Commonwealth Government and the States, the Commonwealth Government accepted responsibility for the securities of State governments then on issue, and was empowered to arrange for all future borrowings on behalf of the Commonwealth Government and the States and to issue Commonwealth Government securities for all money borrowed. The Commonwealth Government is reimbursed by the States for interest, exchange, etc., paid on their behalf, and the securities are redeemed from the National Debt Sinking Fund to which both the Commonwealth Government and State governments make contributions.

In the tables which follow, details are given of transactions in Commonwealth Government securities issued on account of the Commonwealth Government and the States, together with details of securities on issue, annual interest liability and average rate of interest liability. Amounts relating to overseas loans are shown in the currencies in which the loans are repayable, and in Australian currency equivalent calculated on the basis of the rates of exchange ruling at 30 June in each year shown. All amounts shown are at face value.

For further information relating to securities issued by the Commonwealth Government and the States reference should be made to the Commonwealth Government Budget paper Government Securities on Issue.

Net movement in securities on issue

Summary details of the net movement in securities issued for Commonwealth Government purposes and on account of the States during the period 1970-71 to 1974-75, are given in the following group of tables. Also provided is a table (page 620) which sets out the balance of securities on issue at 30 June 1974 and 1975, and the composition of the change in these balances.

NET MOVEMENT IN GOVERNMENT SECURITIES ON ISSUE (\$ million)

| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-------|------------|----------------------|--|---|--|
| SECU | JRITIES IS | SUED | | | |
| _ | | | | | |
| | 808.3 | 814.8 | 870.4 | 1,416.4 | 1,054.9 |
| | 233.1 | 139.2 | 109.2 | 454.2 | 343.0 |
| | 0.4 | 0.2 | 0.8 | 3.2 | 1.5 |
| | 8.2 | 0.4 | (c)11.6 | (c) - 8.0 | (c)-14.3 |
| | | | | | •• |
| | | | | | |
| | | | | | |
| banks | | | | | |
| | 15.0 | 24.5 | 68.4 | 48.5 | 21.1 |
| | 17.9 | (c)-9.7 | (c)164.6 | (c)-37.8 | (c)1,689.1 |
| | | • • | | | |
| | 8.2 | (c)-5.3 | (c)-8.7 | (c)-94.7 | (c)79.4 |
| | | •• | | | |
| | 1,091.1 | 964.0 | 1,216.3 | 1,781.9 | 3,174.8 |
| b) . | 125.0 | 161.0 | 116.0 | 16.1 | 235.1 |
| | 1,216.1 | 1,125.0 | 1,332.3 | 1,797.9 | 3,409.9 |
| | banks | banks 15.0 1,091.1 | . 808.3 814.8 . 233.1 139.2 . 0.4 0.2 . 8.2 0.4 | banks 15.0 24.5 17.9 20.1 24.5 20.1 24.5 20.1 24.5 20.1 24.5 26.4 27.6 28.2 29.6 29.7 20.1 | Bollon Bo |

PUBLIC SECTOR BORROWING

NET MOVEMENT IN GOVERNMENT SECURITIES ON ISSUE—continued (\$ million)

| | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|--|---------|--------------|----------|----------|---------|---------|
| REDEMPTIONS, REI | PURCE | łases, c | CANCELLA | TIONS(d) | | |
| Securities repayable in Australian currency— | | - | | | | |
| Inscribed stock and bonds | | 612.4 | 225.4 | 246.4 | 615.0 | 478.2 |
| Special bonds | | 148.8 | 83.8 | 75.7 | 363.6 | 374.8 |
| Drought bonds | | 0.7 | 0.3 | 0.2 | 0.3 | 0.9 |
| Advance loan subscriptions | | | | | | |
| Overdue securities | | 1.2 | 1.4 | -0.2 | -0.5 | 0.2 |
| Tax-free stock | | | 0.1 | 0.4 | 0.1 | |
| Debentures | | 2.7 | 2.8 | 3.0 | 3.1 | 3.2 |
| Stock issued to Government Savings ba | nks | | | | | |
| under special agreements(a) | | 4.0 | 4.1 | 4.1 | 4.8 | 4.4 |
| Treasury notes | | •• | | | | |
| Treasury bills— | | | | | | |
| Internal | | | | | | |
| Public | | | | | | |
| | | | | | | |
| Total | • | 769.8 | 317.8 | 329.5 | 986.4 | 861.8 |
| Securities repayable in overseas currencies(b) | | 159.3 | 264.4 | 293.6 | 249.1 | 84.4 |
| Total redemptions, etc | | 929.1 | 582.2 | 623.1 | 1,235.5 | 946.2 |
| NE | ет мо | VEMEN | r | | | |
| Securities repayable in Australian currency— | | | - | | | |
| Inscribed stock and bonds | | 195.9 | 589.4 | 624.1 | 801.4 | 576.7 |
| Special bonds | • | 84.4 | 55.4 | 33.5 | 90.6 | -31.7 |
| Drought bonds | • | -0.3 | -0.1 | 0.6 | 2.9 | 0.6 |
| Advance loan subscriptions | • | 8.2 | 0.4 | 11.6 | -8.0 | -14.3 |
| Overdue securities | • | -1.2 | -1.4 | 0.2 | 0.5 | -0.2 |
| Tax-free stock | • | | -0.1 | -0.4 | -0.1 | |
| Debentures | • | -2.7 | -2.8 | -3.0 | -3.1 | -3.2 |
| Stock issued to Government Savings bar | nks | 2., | 2.0 | 3.0 | | |
| under special agreements(a) | · · · · | 11.0 | 20.4 | 64.3 | 43.7 | 16.7 |
| Treasury notes | • | 17.9 | -9.7 | 164.6 | -37.8 | 1,689.1 |
| Treasury bills— | • | 17.7 | -2.1 | 104.0 | 37.0 | 2,002. |
| Internal | | 8.2 | -5.3 | -8.7 | -94.7 | 79.4 |
| Public | : | | - 3.3 | | | |
| Total | | <i>321.3</i> | 646.2 | 886.7 | 795.5 | 2,313.0 |
| | | | | | | 100 7 |
| Securities repayable in overseas currencies(b) | | -34.3 | -103.4 | -177.6 | -233.1 | 150.7 |

⁽a) Recorded in Commonwealth Government Loan Fund as State domestic raisings. (b) Australian currency equivalent at rates of exchange ruling at 30 June in each of the years shown. (c) Net issue. (d) Includes conversions from one type of security to another, which affect the net movements of individual loan categories, but do not affect the overall net movement.

The net movement in securities on issue may be reconciled with the Budget deficit, as shown in the following table. For details relating to the financing of the budget deficit see page 559.

RECONCILIATION OF DEFICIT WITH NET MOVEMENT IN SECURITIES ON ISSUE (\$ million)

(Source: Supplement to the Treasury Information Bulletin, August 1975)

| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--|-------------------|-----------------------|-----------------|-----------------------|--------------------|
| Net movement in securities on issue | 287 | 543 | 709 | 562 | 2,464 |
| Less net increase in securities on issue held by Trust Fund(a) | -88 | 58 | 20 | 27 | - 508 |
| Adjustment from face value to cash basis | 199 (b) -21 | 601 (<i>b</i>)64 | 729 (b)114 | 590 (<i>b</i>)67 | 1,956 (b) - 139 |
| Less increases in net assets of Commonwealth | 179 | 665 | 843 | 657 | 1,817 |
| Government— Cash balances | -157 -37 26 | - 5 67 | - 175 40 | -480 116 | 660 90 |

⁽a) Excludes investment of other than Commonwealth Government balances in the Trust Fund. (b) Includes adjustment of Australian currency equivalent of overseas debt, following variations in the rates of exchange. See Government on Issue at 30 June 1971, 1972, 1973, 1974 and 1975.

NET MOVEMENT IN GOVERNMENT SECURITIES ON ISSUE, 1974-75 (\$ million)

| | | | | | Change du | ring 1974-75 | | |
|--|---------|--------|------------|-------------------------------------|---|--|---|------------------|
| | | | | Securities on issue at 30 June 1974 | New securities issued | Redemptions, repurchases, cancellations (a) | Securities on issue at 30 June 1975 | Net movement |
| Securities repayable in Australi | | rrency | , — | | | | | |
| Commonwealth Government Inscribed stock and bonds | | | | 1.606.6 | 100 5 | 2/2 0 | 1 (12 1 | 72.2 |
| Special bonds | • | • | • | 1,686.5 249.9 | 190.5 | -263.8 | 1,613.1 | -73.3 -3.4 |
| Drought bonds | • | • | • | 249.9 4.0 | 114.2 | ~117.7 ~0.9 | 246.5 | |
| Advance loan subscription | | • | • | 17.6 | | 0.9 | 4.6 3.3 | +0.6 |
| Overdue securities | ъ. | • | • | 4.5 | (a)-14.3 | -0.3 | 3.3 4.2 | -14.3 |
| Treasury notes | • | • | • | 386.9 | (d)1,689.1 | | 2,076.0 | -0.3 +1.689.1 |
| Treasury holes | • | • | | 930.8 | (d)79.4 | • • | 1,010.2 | + 79.4 |
| Treasury bins—internal . | • | • | • | 930.0 | (a)19.4 | • • • | 1,010.2 | + 19.4 |
| Total | | | | 3,280.2 | 2,060.4 | -382.7 | 4,957.9 | +1,677.7 |
| States- | | | | | | | | |
| Inscribed stock and bonds | | | | 9,792.3 | 864.4 | -214.4 | 10,442.4 | +650.1 |
| Special bonds | • | • | • | 747.4 | 228.8 | -257.1 | 719.1 | -28.3 |
| Tax-free stock | • | • | • | 15.3 | 220.0 | -237.1 | 15.3 | |
| Stock issued to Governme | nt Sa | vinoc | hanke | 13.3 | • • • | • • • | 15.5 | • • |
| under special agreement | | viliga | Uaiiks | 405.4 | 21.1 | -4.4 | 422.0 | +16.7 |
| Debentures | (0) . | • | • | 33.5 | 21.1 | -3.2 | 30.3 | -3.2 |
| Overdue securities | • | • | • | 0.2 | • | +0.1 | 0.4 | +0.1 |
| Overdue securities | • | • | | 0.2 | ••• | 10.1 | 0.4 | 70.1 |
| Total | | | | 10,994.2 | 1,114.3 | -479 I | 11,629.5 | +635.3 |
| Total securities repays | ıble ir | Anst | ralian | | | | | |
| currency | | | | 14,274.5 | 3,174.8 | 861 . 8 | 16,587.5 | + 2,313.0 |
| Securities repayable in oversea | s cur | rencie | s(c)— | | | | | |
| Commonwealth Government | t— | | | | | | | |
| Public loans | | | | 393.5 | 160.0 | +46.4 | 599.9 | +206.4 |
| Export-Import Bank loans | | | | 12.2 | | +0.5 | 12.6 | +0.5 |
| Defence loans | | | | 126.4 | | 29 . i | 97.3 | - 29.1 |
| International Bank Loans Private loans— | • | • | • | 64.2 | | +0.2 | 64.4 | +0.2 |
| Aircraft | | | | 116.5 | 48.6 | +8.1 | 173.2 | ÷56.7 |
| Other purposes | | | | 94.5 | 26.4 | -70.2 | 50.8 | -43.8 |
| Total | | | | 807.3 | 235.1 | -44.2 | 998.2 | +190.9 |
| States | | | | 224.5 | | -40.3 | 184.2 | -40.3 |
| Total securities repay currencies | able . | in ov | erseas | 1,031.8 | 235.1 | -84.4 | 1,182.5 | +150.7 |

⁽a) Includes conversions from one type of security to another. currency equivalents at rates of exchange ruling at 30 June 1975.

⁽b) i.e. State domestic raisings.(d) Net issue.

⁽c) Australian

Government securities on issue, annual interest payable, and average rate of interest

The following tables provide details of government securities on issue on account of the Commonwealth Government and the States, repayable in Australian and in overseas currencies, and show, for recent years, the securities on issue maturing in Australia classified by holder. Also shown are details of annual interest payable on securities on issue in Australia and overseas, and the average rate of interest liability.

GOVERNMENT SECURITIES ON ISSUE: COMMONWEALTH GOVERNMENT AND STATES (\$ million)

| | | | | | | 30 June | | | | |
|--|--------|--------|--------|--------|-----|-----------------|-------------------------|----------|----------|----------|
| | | | | | | 1971 | 1972 | 1973 | 1974 | 1975 |
| For Commonwealth Go | | | | ses- | | | | | | |
| Repayable in Austral | lian c | urrenc | y— | | | | | | | |
| Inscribed stock and | d bon | ıds | ٠. | | | 1,147.6 | 1,165.7 | 1,233.2 | 1,686.5 | 1.613.1 |
| Special bonds. | | | | | | 238.9 | 252.5 | 262.9 | 249.9 | 246.5 |
| Drought bonds | | | | | | 0.7 | 0.6 | 1.1 | 4.0 | 4.6 |
| Advance loan subs | cripti | ions | | | | 13.6 | 14.0 | 25.6 | 17.6 | 3.3 |
| Overdue securities | | | | | | 5.4 | 4.0 | 3.8 | 4.5 | 4.2 |
| Treasury notes | | | | | | 269.8 | 260.1 | 424.7 | 386.9 | 2,076.0 |
| Treasury bills- | • | • | • | • | • | | | | | 2,0.0.0 |
| Internal . | | _ | | | | 1.039.5 | 1,034.2 | 1,025.5 | 930.8 | 1.010.2 |
| Public | • | • | • | • | • | | | • | | 1,010.2 |
| Tuono | • | • | • | • | • | •• | •• | •• | •• | • • |
| Total . | • | • | • | • | • | 2,715.5 | <i>2,731</i> . <i>0</i> | 2,976.8 | 3,280.2 | 4,957.9 |
| Repayable in oversea | ıs cur | rencie | s(a) | | | 1,085.4 | 1,076.9 | 986.2 | 807.3 | 998.2 |
| Total Common | ıweal | th Gov | ernni | ent | | 3,800.9 | 3,807.9 | 3,963.0 | 4,087.5 | 5,956.2 |
| On account of States— Repayable in Austral Inscribed stock and | lian c | | y • | | | 8,316.3 | 8,887.6 | 9,444.2 | 9,792.3 | 10,442.4 |
| Special bonds . | | | | | | 578.9 | 620.8 | 643.9 | 747.4 | 719.1 |
| Tax-free stock. | | | | | | 16.0 | 15.8 | 15.4 | 15.3 | 15.3 |
| Stock issued to G | over | ment | Savir | igs ba | nks | | | | | |
| under special | agree | ments | | ٠. | | 277.0 | 297.4 | 361.7 | 405.4 | 422.0 |
| Debentures - | ٠. | | | | | 42.4 | 39.6 | 36.6 | 33.5 | 30.3 |
| Overdue securities | | | | | • | •• | •• | 0.4 | 0.2 | 0.4 |
| Total . | • | | | • | • | 9,23 0.6 | 9,861.2 | 10,502.2 | 10,994.2 | 11,629.5 |
| Repayable in oversea | ıs cui | rencie | s(a) | • | • | 460.5 | 365.6 | 278.6 | 224.5 | 184.2 |
| Total States | • | • | • | • | • | 9,691.1 | 10,226.8 | 10,780.8 | 11,218.7 | 11,813.8 |
| of Which- | | | | | | | | | | |
| New South Wales | | | | | | 3,192.9 | 3,359.4 | 3,528.6 | 3,654.4 | 3,834.1 |
| Victoria | - | - | | | | 2,347.8 | 2,488.3 | 2,632.9 | 2,746.6 | 2,896.2 |
| Queensland . | • | • | • | | | 1,289.5 | 1,355.7 | 1,427.8 | 1,485.0 | 1,576.7 |
| South Australia . | • | • | • | • | • | 1,256.9 | 1,332.0 | 1,409.7 | 1,473.3 | 1,551.3 |
| Western Australia | • | • | • | • | • | 932.6 | 981.4 | 1,029.9 | 1.070.9 | 1,121.6 |
| Tasmania | • | • | • | • | • | 671.3 | 709.9 | 752.0 | 787.6 | 833.9 |
| | • | • | • | • | • | J. 2.0 | | ,,,,, | | |
| Total Commo | nwea | lth G | overn | ment | and | | | | | |
| States · | | | | | | | | | 15,306.2 | 17,769.9 |

⁽a) Australian currency equivalent.

GOVERNMENT SECURITIES ON ISSUE(a): COMMONWEALTH GOVERNMENT AND STATE MATURING IN AUSTRALIA, BY HOLDER

(\$ million)

(Source: Reserve Bank of Australia Statistical Bulletin)

| | | | 30 June | | | | |
|---|------|----|---------|--------|----------------|----------------|--------|
| Holder | | | 1971 | 1972 | 1973 | 1974 | 1975 |
| Reserve Bank of Australia | | | 910 | 501 | 611 | 1,443 | 1,276 |
| Trading banks | | | 1,412 | 1,788 | 2,298 | 2,221 | 3,663 |
| Savings banks | | | 2,337 | 2,380 | 2,787 | 2,943 | 2,924 |
| Other banking institutions | | | 1 | 3 | ['] 6 | [′] 6 | 4 |
| Life assurance offices | | | 1,325 | 1,483 | 1,632 | 1,786 | 1,862 |
| Fire, marine and general insurance offices. | | | 120 | 117 | 121 | 123 | 125 |
| Other private financial institutions— | | | | | | | |
| Pension and provident funds | | | 249 | 290 | 319 | 371 | 421 |
| Friendly societies, hospital and medical fund | ls. | | 31 | . 34 | 35 | 37 | 36 |
| Trustee companies | | | 108 | 109 | 109 | 105 | 96 |
| Pastoral finance companies | | | 16 | 14 | 9 | 3 | 1 |
| Money market dealers | | | 694 | 983 | 731 | 350 | 733 |
| Miscellaneous | | | 74 | 111 | 100 | 96 | 113 |
| Government financial institutions— | • | | | | | | |
| Insurance offices and funds | | | 154 | 163 | 198 | 219 | 223 |
| Pension and provident funds | | | 238 | 271 | 298 | 282 | 323 |
| Public trustees | | | 26 | 24 | 25 | 26 | 41 |
| All other(b) \cdot \cdot \cdot | | | 3 | 3 | 2 | 3 | 8 |
| Public authorities (excluding finance)— | • | • | | • | | | |
| Commonwealth Government (including Co | ommo | n- | | | | | |
| -141 | | | 2,661 | 2,586 | 2,556 | 2,524 | 3,010 |
| State Government | | | 39 | 42 | 54 | 51 | 42 |
| Local government and State semi-government | 1t | | 191 | 177 | 174 | 178 | 163 |
| Companies (excluding finance) | | | 118 | 253 | 214 | 144 | 145 |
| Other holders— | · | • | | | | | |
| Marketing boards | | | 3 | 2 | 2 | 2 | 2 |
| Farmers | | | 76 | 73 | 69 | 70 | 63 |
| Non-profit organisations | | | 50 | 50 | 50 | 50 | 46 |
| All other | | • | 1,107 | 1,135 | 1,080 | 1,241 | 1,270 |
| Total | | | 11,946 | 12,592 | 13,479 | 14,274 | 16,587 |

⁽a) Total stock inscribed, bonds in circulation, amounts paid up on outstanding applications, in transit claims and advance applications. Commonwealth Government Treasury Bills and Treasury Notes, debentures, and Savings Certificates. (b) Includes securities held by Commonwealth Development Bank of Australia.

GOVERNMENT SECURITIES ON ISSUE: COMMONWEALTH GOVERNMENT AND STATES REPAYABLE IN OVERSEAS CURRENCIES

| | | | 30 June | | | | |
|---|--------|---------|-------------|-------------|----------|-------------|----------|
| | | | 1971 | 1972 | 1973 | 1974 | 1975 |
| For Commonwealth Govern | nment | | | | | | |
| purposes— | | 0-4- | 60.0 | 60.3 | (0.0 | 50 6 | |
| Sterling | • | £stg m | 69.2 | 68.3 | 60.9 | 58.6 | 55.4 |
| United States dollars . | • | US\$ m | 691.9 | 689.1 | 617.6 | 483.2 | 486.7 |
| Canadian dollars . | • | Can\$ m | 12.3 | 5.2 | 2.3 | 1.9 | 1.8 |
| Swiss francs | • | Sw F m | 249.6 | 249.6 | 347.6 | 345.6 | 479.0 |
| Netherlands guilders . | | f. m | 65.2 | 64.8 | 64.3 | 63.8 | 63.3 |
| Deutsche marks | • | DM m | 931.2 | 1,026.1 | 1,018.8 | 974.8 | 1,041.0 |
| European units of accou | nt . | EuA m | | 15.0 | 15.0 | 14.0 | 13.5 |
| Japanese yen | • | Yen m | | | 10,000.0 | 10,000.0 | 10,000.0 |
| Total - Australian currency | | | | | | | |
| equivalent(a) | | \$A m | 1,085.4 | 1,076.9 | 986.2 | 807.3 | 998.2 |
| On account of States- | | | | | | | |
| Sterling | | £stg m | 149.7 | 120.9 | 105.9 | 93.9 | 64.6 |
| United States dollars . | | US\$ m | 126.2 | 107.4 | 85.9 | 75.7 | 65.2 |
| Canadian dollars | | Can\$ m | 11.6 | 10.9 | 10.2 | 9.9 | 9.2 |
| Swiss francs | | Sw F m | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 |
| Netherlands guilders . | | f. m | 24.1 | 21.9 | 19.7 | 17.5 | 15.3 |
| Total—Australian currency | | | | | | | |
| equivalent(a) | | \$A m | 460.5 | 365.6 | 278.6 | 224.5 | 184.2 |
| Total—Commonwealth Goment and States—Aust | | | | | | | |
| currency equivalent(a). | . anan | \$A m | 1,545.9 | 1,442.5 | 1,264.9 | 1,031.8 | 1,182.5 |

⁽a) Australian currency equivalent at rates of exchange ruling at 30 June in each of the years shown.

GOVERNMENT SECURITIES ON ISSUE: COMMONWEALTH GOVERNMENT AND STATES REPAYABLE IN OVERSEAS CURRENCIES, 30 JUNE 1975

| | Curren | cy in whic | ch repayabl | e | | | | | Total- Australia |
|---|---------------|-----------------------------|---------------------|-----------------|------------------------------|-------------------|-----------------|---|-----------------------------|
| | Ster- ling | United States dollars | Canadian dollars | Swiss francs | Nether- lands guilders | Deutsche marks | Japanese yen | European units of account | currency equivalen (a |
| T. G | £stg m | US\$ m | Can\$ m | Sw F m | f m | DM m | Yen m | Eu A. m | \$A n |
| For Commonwealth Govern- | • | | | | | | | | |
| ment purposes— Public loans | 55.4 | 160.9 | 1.8 | 239.7 | 3.3 | 849.1 | 10,000.0 | 13.5 | 599.9 |
| Export-Import Bank loans— | 33.4 | 100.9 | 1.0 | 237.1 | 3.3 | 049.1 | 10,000.0 | 13.3 | |
| Defence equipment . | | 128.9 | | | | | | | 97.3 |
| Aircraft | | 93.4 | | | | | | | 70 5 |
| Other | | 16.8 | | | | | | | 12.6 |
| International Bank loans . Private loans— | • • • | 59.0 | • • • | • • | | 61.9 | • • | • • • | 64.4 |
| Aircraft | | 27.7 | | 239.3 | | 30.0 | | | 102.7 |
| Other purposes | | 27.7 | | 237.3 | 60.0 | 100.0 | •• | • | 50.8 |
| Total | 55.4 | 486.7 | 1.8 | 479.0 | 63. 3 | 1,041.0 | 10,000.0 | 13.5 | 998.2 |
| On account of States- | | | | | | | | | |
| New South Wales | 34.7 | 26.4 | 2.9 | 15.8 | 4.8 | | | | 86.6 |
| Victoria | 11.5 | 12.5 | 2.3 | 12.7 | 3.9 | | | | 35.5 |
| Queensland | 5.6 | 10.5 | 1.2 | 6.4 | 2.0 | | | | 20.7 |
| South Australia | 6.1 | 7.1 | 1.2 | 6.8 | 2.0 | | | | 19.2 |
| Western Australia | 4.7 | 3.7 | 0.9 | 4.9 | 1.5 | | | | 13.3 |
| Tasmania | 1.9 | 5.0 | 0.7 | 3.7 | 1.1 | • • | •• | •• | 8.9 |
| Total | 64.6 | 65.2 | 9.2 | 50.3 | 15.3 | •• | •• | •• | 184.2 |
| Total Commonwealth | | | | | | | | | |
| Government and States | 1 120.1 | 551.9 | 11.0 | 529.3 | 78.7 | 1,041.0 | 10,000.0 | 13.5 | 1,182.5 |

GOVERNMENT SECURITIES ON ISSUE: COMMONWEALTH GOVERNMENT AND STATES ANNUAL INTEREST PAYABLE

| | | | 30 June- | - | | | |
|--|---|------------------|--|--|--|--|---|
| | | | 1971 | 1972 | 1973 | 1974 | 197 |
| | | | AMOUNT | | | | |
| For Commonwealth G | iovernmer | nt | | | | | |
| purposes— | | C A | 00.6 | 00.4 | 112 0 | 172 5 | 244 |
| Australian currency | | \$A m | 99.5 | 99.4 | 113.0 | 172.5 | 244. |
| Sterling | | £Stg m | 3.9 | 3.8 40.1 | 3.4 37.0 | 3.3 30.0 | 3. 32. |
| United States dollars Canadian dollars | | US\$ m | 38.1 | 0.3 | 0.1 | 0.1 | 0. |
| Swiss france . | | Can\$ m SwF m | 0.6 13.6 | 13.6 | 19.5 | 19.4 | 34 |
| Netherlands guilders | • • | fm | 4.9 | 4.9 | 4.9 | 4.8 | 4 |
| Deutsche marks . | | DM m | 60.6 | 67.3 | 66.8 | 63.9 | 80 |
| European units of ac | count | EuA m | | 1.2 | 1.2 | 1.1 | 1 |
| Japanese yen . | count . | Yen m | •• | 1.2 | 690.0 | 690.0 | 690 |
| • | · · | | •• | • • | 0,0.0 | 0,0.0 | 0,0 |
| Total Commonwealth (Australian currency equ | | _ | 162.0 | 164.1 | 173.7 | 223.0 | 314 |
| On account of States— | | | | | | | |
| Australian currency | | \$A m | 496.1 | 542.6 | 578.9 | 638.6 | 734 |
| Sterling | | £Stg m | 6.9 | 5.7 | 4.9 | 4.4 | 3 |
| United States dollars | | US\$ m | 6.8 | 5.8 | 4.7 | 4.1 | 3 |
| Canadian dollars | | Can\$ m | 0.7 | 0.6 | 0.6 | 0.6 | 0 |
| Swiss francs . | | SwF m | 2.3 | 2.3 | 2.3 | 2.3 | 2 |
| Netherlands guilders | | f m | 1.2 | 1.1 | 1.0 | 0.9 | 0 |
| Total States—Australian | currency | | | | | | |
| equivalent(a) . | | \$ <i>A m</i> | 518.3 | 560.5 | <i>592.3</i> | 649.6 | 744 |
| ment and States-A | ustralian | • | | | =44.4 | 0.00 | 4.050 |
| | ustralian) | \$A m | 680.2 | 724.6 REST LIAB | 766.1 | 872.6 | 1,059. |
| | ustralian) | | | | | 872.6 | 1,059 |
| ment and States-A | ustralian) AVE | RAGE RATI | OF INTE | | | 872.6 | 1,059 |
| ment and States—A currency equivalent(a) | ustralian) AVE | RAGE RATI | OF INTE | | | 5.26 | |
| ment and States—A currency equivalent(a) | AVE | RAGE RATI | E OF INTE | REST LIAB | ILITY | | 4.9 |
| ment and States—A currency equivalent(a) | AVE | RAGE RATI | Per cent) | REST LIAB | 3.80 | 5.26 | 4.9 |
| ment and States—A currency equivalent(a) For Commonwealth Go Australian currency Sterling | AVE | RAGE RATI | 3.66 5.57 5.50 5.18 | 3.64 5.59 5.82 5.51 | 3.80 5.59 | 5.26 5.58 6.21 5.75 | 4.9 5 6.0 5 |
| ment and States—A currency equivalent(a) for Commonwealth Go. Australian currency Sterling United States dollars Canadian dollars Swiss francs | AVE | RAGE RATI | 3.66 5.57 5.50 5.18 | 3.64 5.59 5.82 5.51 5.44 | 3.80 5.59 5.98 5.88 5.61 | 5.26 5.58 6.21 5.75 5.61 | 4.9 5.5 6.6 5.7 |
| rent and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling United States dollars Canadian dollars Swiss francs . Netherlands guilders | AVE | RAGE RATE | 3.66 5.57 5.50 5.18 5.44 7.53 | 3.64 5.59 5.82 5.51 5.44 7.55 | 3.80 5.59 5.98 5.88 5.61 7.57 | 5.26 5.58 6.21 5.75 5.61 7.59 | 4.: 5.: 6.: 5.: 7.: |
| for Commonwealth Go Australian currency Sterling . United States dollars Canadian dollars Swiss francs . Netherlands guilders Deutsche marks . | AVE | RAGE RATE | 3.66 5.57 5.50 5.18 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 | 4.4 5 6 5 7 7 |
| ment and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling . United States dollars Canadian dollars Swiss francs . Netherlands guilders Deutsche marks . European units of acc | AVE | RAGE RATE | 3.66 5.57 5.50 5.18 5.44 7.53 | 3.64 5.59 5.82 5.51 5.44 7.55 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 | 4.: 5 6.: 5 7 7.: 8.0 |
| for Commonwealth Go Australian currency Sterling United States dollars Canadian dollars Swiss francs . Netherlands guilders Deutsche marks . | AVE | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 | 4.4 5 6 5 7 7 8 |
| or Commonwealth Go Australian currency Sterling United States dollars Canadian dollars Swiss francs Netherlands guilders Deutsche marks European units of acc Japanese yen Otal Commonwealth Go | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 | 4.: 5.: 6.: 7.: 7.: 8.: 6.: |
| ment and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 | 4.: 5.: 6.: 7.: 7.: 8.: 6.: |
| ment and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling . United States dollars Canadian dollars Swiss francs . Netherlands guilders Deutsche marks . European units of acc Japanese yen . Social Commonwealth Go currency equivalent(a) on account of States— | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 | 4.9 5.3 6.4 5.7 7.0 7.0 8.0 6.9 |
| ment and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 | 4.9 5 5 7 7 7 8 6 5 6 5 |
| for Commonwealth Go Australian currency Sterling | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 4.26 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 4.31 5.50 4.68 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 4.60 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 | 4.9 5.5 5.7 7.1 7.6 6.9 5.2 |
| for Commonwealth Go Australian currency Sterling United States dollars Canadian dollars Swiss francs Netherlands guilders Deutsche marks European units of acc Japanese yen Cotal Commonwealth Go currency equivalent(a) On account of States— Australian currency Sterling United States dollars | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 4.26 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 4.31 5.50 4.68 5.39 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 4.60 5.46 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 5.81 4.71 5.47 | 4.9 5.9 6.0 5.7 7.0 7.7 8.0 6.9 |
| ment and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling . United States dollars Swiss francs . Netherlands guilders Deutsche marks . European units of acc Japanese yen . Jordan Commonwealth Go currency equivalent(a) on account of States—Australian currency Sterling . United States dollars Canadian dollars | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 4.26 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 4.31 5.50 4.68 5.39 5.75 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 4.60 5.46 5.75 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 5.81 4.71 5.47 5.75 | 4 5 6 7 7 8 6 5 5 6 5 7 6 6 |
| ment and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling . United States dollars Swiss francs . Netherlands guilders Deutsche marks . European units of acc Japanese yen . Cotal Commonwealth Gourrency equivalent(a) On account of States—Australian currency Sterling . United States dollars Canadian dollars Swiss francs . | AVE overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 4.26 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 4.31 5.50 4.68 5.39 5.75 4.50 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 4.60 5.46 5.75 4.50 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 5.81 4.71 5.75 4.50 | 4.9 5 5 7 7 7 8 6 5 6 5 6 5 6 5 6 5 6. |
| ment and States—A currency equivalent(a) for Commonwealth Go Australian currency Sterling | AVE Overnment Count Overnment Overnment Overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 4.26 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 4.31 5.50 4.68 5.39 5.75 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 4.60 5.46 5.75 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 5.81 4.71 5.47 5.75 | 4.9 5.3 6.6 5.7 7.1 7.6 8.6 6.9 5.4 5.4 5.4 |
| ment and States—A currency equivalent(a) For Commonwealth Go Australian currency Sterling . United States dollars Swiss francs . Netherlands guilders Deutsche marks . European units of acc Japanese yen . Fotal Commonwealth Gourrency equivalent(a) On account of States—Australian currency Sterling . United States dollars Canadian dollars Swiss francs . Netherlands guilders Fotal States—Australian Fotal States—Australian | AVE Overnment Count Overnment Overnment Overnment | RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 4.26 5.37 4.59 5.36 5.75 4.50 5.00 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 4.31 5.50 4.68 5.39 5.75 4.50 5.00 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 4.60 5.46 5.75 4.50 5.00 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 5.81 4.71 5.47 5.75 4.50 5.00 | 4.5 5.5 6.6 5.7.1 7.6 6.9 5.2 6.3 5.4 5.4 5.4 5.4 |
| ror Commonwealth Go Australian currency Sterling . United States dollars Canadian dollars Swiss francs . Netherlands guilders Deutsche marks . European units of acc Japanese yen . Cotal Commonwealth Gourrency equivalent(a) On account of States—Australian currency Sterling . United States dollars Canadian dollars Swiss francs . | AVE Overnment Count Overnment RAGE RATI | 3.66 5.57 5.50 5.18 5.44 7.53 6.51 4.26 | 3.64 5.59 5.82 5.51 5.44 7.55 6.56 8.00 4.31 5.50 4.68 5.39 5.75 4.50 | 3.80 5.59 5.98 5.88 5.61 7.57 6.55 8.00 6.90 4.38 5.51 4.60 5.46 5.75 4.50 | 5.26 5.58 6.21 5.75 5.61 7.59 6.56 8.00 6.90 5.46 5.81 4.71 5.75 4.50 | 1,059. 4.5.5.6.6.6.5.7.1.1.7.6.6.9 5.22 6.35.4.5.7.4.5.5.0 6.3 |

⁽a) At rates of exchange ruling at 30 June in each of the years shown.

6.30

GOVERNMENT SECURITIES ON ISSUE: COMMONWEALTH GOVERNMENT AND STATES ANNUAL INTEREST PAYABLE, 30 JUNE 1975

| | Cui | rency in | which po | yable | | | | | | | Total- |
|--|-----------------------|--|--|--|--|--|--|----------------------|--------------------------------------|----------------------|---|
| | | stralian urrency | Ster- ling | United States dollars | Cana- dian dollars | Swiss francs | Nether- lands guilders | Deutsche marks | Euro- pean units of account | Japan- ese yen | Aus- tralian currency equiva- lent(a) |
| For Commonwealth O | | \$A m | £Stg m | US\$ m | Can\$ m | Sw F m | f m | DM m | Eu A m | Y m | \$A m |
| ernment purposes. | | 244.8 | 3.1 | 2.3 | 0.1 | 34.3 | 4.8 | 80.5 | 1.1 | 690.0 | 314.9 |
| On account of States— New South Wales. Victoria Queensland. South Australia Western Australia. Tasmania | · · · · · | 238.4 181.9 93.1 97.6 70.8 52.3 | 1.9 0.6 0.3 0.3 0.2 | 1.4 0.7 0.6 0.4 0.2 0.3 | 0.2 0.1 0.1 0.1 0.1 | 0.7 0.6 0.3 0.3 0.2 0.2 | 0.2 0.2 0.1 0.1 0.1 | | | | 243.2 183.8 94.2 98.5 71.5 52.8 |
| Total States . | | 734.1 | 3.5 | 3.6 | 0.5 | 2.3 | 0.8 | •• | ••• | •• | 744.1 |
| Total— Currencies in w repayable Australian curre equivalent(a) \$A | епсу | 979.0 979.0 | 6.6 11.1 | 35.9 27.1 | 0.6 | 36.6 11.0 | 5.6 1.7 | 80.5 25.9 | 1.1 | 690.0 | 1,059.0 |
| | | AV | ERAGI | E RATI | E OF II | NTERES | ST LIA | BILITY | | | |
| For Commonwealth Comment purposes. | | 4.94 | 5.56 | 6.64 | 5.75 | 7.17 | 7.61 | 7.73 | 8.00 | 6.90 | 5.29 |
| On account of States— New South Wales . Victoria . Queensland . South Australia . Western Australia . Tasmania . | - : : : | 6.36 5.36 5.98 6.37 6.39 6.34 | 5.59 5.52 5.59 4.57 5.21 5.53 | 5.44 5.45 5.56 5.49 5.38 5.55 | 5.75 5.75 5.75 5.75 5.75 5.75 | 4.50 4.50 4.50 4.50 4.50 4.50 | 5.00 5.00 5.00 5.00 5.00 5.00 | ·· ·· ·· ·· | | | 6.34 6.35 5.98 6.35 6.37 6.33 |

5.75 (a) At rates of exchange ruling at 30 June 1975.

4 50

5.00

National Debt Sinking Fund

Securities on issue on behalf of the Commonwealth Government

5.45

5.47

6.31

Total States

The National Debt Sinking Fund was established by the National Debt Sinking Fund Act 1923 and came into operation on 11 August 1923. Particulars of the creation and operation of sinking funds by that Act are included in issues of the Year Book prior to No. 23. The National Debt Sinking Fund Act 1966 repealed all previous legislation on sinking funds relating to securities on issue on behalf of the Commonwealth Government. Under the Act of 1966 the period of redemption is 25 years from 1 July 1966 for debt outstanding at 30 June 1966 and 25 years for net debt created in subsequent years.

Broadly, the amounts payable to the National Debt Sinking Fund each year are made up of contributions from the Consolidated Revenue Fund of the Commonwealth Government as follows:

- (a) an amount of \$30.94 million each year for a period of 25 years;
- (b) an amount equal to 4 per cent of the amount of net debt created (if any) in any year for a period of 25 years.

In addition, an amount equal to specified receipts by the Commonwealth Government in repayment of loans or advances made out of moneys in the Loan Fund will be paid to the Sinking Fund.

The amounts payable to the Fund in any year from Consolidated Revenue Fund are to be reduced by the following:

- (a) the net income from investments in any year; and
- (b) an amount equal to 4 per cent of the amount of the net reduction of debt in any year.

Particulars of receipts and expenditure of the Commonwealth Government Account for the years 1970-71 to 1974-75 are as follows.

NATIONAL DEBT SINKING FUND: COMMONWEALTH GOVERNMENT ACCOUNT
(\$'000)

| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-------|--------|-------------|----------------|---|---------|---------|---------|--|
| | | | | | | | | |
| Rever | nue | | | 21,061 | 17,812 | 22,012 | 37,276 | 42,847 |
| repai | d. | | | 272,483 | 157,376 | 84,333 | 19,599 | 21,479 |
| nts | • | • | • | 2,968 | 1,359 | 995 | 655 | 698 |
| | | | • | 296,512 | 176,547 | 107,340 | 57,529 | 65,023 |
| _ | | | | | | | | |
| d and | i rede | emed i | in— | | | | | |
| | • | | • | | | | | 45,455 |
| • | • | | • | 1,230 | | 14,303 | 2,511 | 3,854 |
| | | | • | 22,941 | 26,207 | 17,854 | 25,030 | 13,096 |
| | | | • | 90 | 93 | 89 | 32 | 91 |
| | • | | | 119 | 124 | 124 | 116 | 140 |
| • | • | • | • | • • | • • | 707 | 10,345 | 16,200 |
| e. | | | • | 317,558 | 177,534 | 120,655 | 54,249 | 78,836 |
| | | | | 61,565 | 60,578 | 47,263 | 50,543 | 36,730 |
| еѕ ге | purch | ased | and | | | | | |
| | _ | _ | _ | 294.367 | 149.513 | 87.747 | 17.321 | 47,319 |
| · | • | • | • | | | | | 5,334 |
| | • | • | • | | | | | 14,268 |
| | • | • | • | | | | | 102 |
| • | | • | • | | | | | 148 |
| : | : | ÷ | : | • | | 792 | 11,231 | 18,546 |
| | • | | | 319,794 | 178,069 | 118,750 | 57,610 | 85,717 |
| | repai | d and redec | d and redeemed | repaid | Revenue | Revenue | Revenue | Revenue . 21,061 17,812 22,012 37,276 repaid . 272,483 157,376 84,333 19,599 hts . 2,968 1,359 995 655 |

⁽a) Includes instalment repayments of loans from International Bank for Reconstruction and Development; 1970-71—face value, \$13.2m, net cost, \$13.1m; 1971-72—face value, \$12.9m, net cost, \$13.1m; 1972-73—face value, \$6.1m, net cost, \$6.8m; 1973-74—face value, \$4.5m, net cost, \$4.6m; 1974-75—face value, \$5.3m, net cost, \$4.9m.

Securities on issue on behalf of States

A sinking fund for the redemption of the securities on issue on behalf of States was established under the Financial Agreement. Particulars of the transactions of the National Debt Sinking Fund (States' Account) for each State during the year 1974-75 and for all States during the years 1970-71 to 1974-75 are shown in the following tables.

NATIONAL DEBT SINKING FUND: STATES' ACCOUNT, 1974-75 (\$'000)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|---|----------|--------|--------|--------|--------|-------|---------|
| Receipts- | | | | | | | |
| Contributions under Finance | ial | | | | | | |
| Agreement | | | | | | | |
| Commonwealth . | . 10,079 | 7,525 | 4,012 | 4,072 | 2,976 | 2,141 | 30,805 |
| States | . 39,844 | 28,823 | 15,045 | 15,361 | 12,317 | 6,805 | 118,194 |
| | on | | | | | | |
| cancelled securities | . 48 | 16 | 11 | 8 | 7 | 6 | 96 |
| Special contributions by State | | 14 | 9 | | 6 | | 92 |
| Interest on investments, etc. | . 62 | 49 | 19 | 36 | 31 | 15 | 213 |
| Total receipts | . 50,096 | 36,427 | 19,097 | 19,477 | 15,336 | 8,967 | 149,400 |
| Expenditure (net cost)— Securities repurchased and redeemed in— | | | | | | | |
| Australia | . 32,591 | 36,297 | 14,011 | 13,978 | 6,962 | 8,096 | 111,935 |
| London | . 19,280 | 539 | 3,931 | 8,661 | 11,648 | 1,048 | 45,107 |
| New York | . 2,789 | 1,426 | 943 | 736 | 481 | 448 | 6,823 |
| Canada | . 147 | 811 | 59 | 63 | 45 | 34 | 465 |
| Netherlands | . 204 | 164 | 83 | 82 | 64 | 47 | 644 |
| Total expenditure . | . 55,010 | 38,544 | 19,028 | 23,520 | 19,199 | 9,674 | 164,975 |
| Balance at 30 June 1975 . | . 1,578 | 1,774 | 1,482 | 1,516 | 1,037 | 1,268 | 8,654 |
| Face value of securities repurchand redeemed in- | sed | | | | | | |
| Australia | . 32,602 | 36,299 | 14,011 | 13,978 | 6,962 | 8,096 | 111,948 |
| London(a) | . 22,592 | 926 | 4,610 | 10,262 | 13,713 | 1,380 | 53,483 |
| New York(a) | . 1,762 | 890 | 598 | 461 | 298 | 283 | 4,291 |
| Canada(a) | . 92 | 74 | 37 | 39 | 28 | 21 | 293 |
| Netherlands (a) . | . 114 | 92 | 47 | 46 | 36 | 27 | 362 |
| Total face value . | . 57,163 | 38,281 | 19,304 | 24,787 | 21,036 | 9.807 | 170,378 |

⁽a) Converted in accordance with the Financial Agreement at the equivalent of the mint par of exchange prevailing on 1 July 1927.

NATIONAL DEBT SINKING FUND: STATES' ACCOUNT (\$'000)

| | 1970–71 | <i>1971–72</i> | <i>1972–73</i> | 1973–74 | 1974-75 |
|--|-------------|----------------|----------------|---------|---------|
| Receipts— | | | | | |
| Contributions under Financial | | | | | |
| Agreement— | | | | | |
| Commonwealth | 24,550 | 26,323 | 27,979 | 29,509 | 30,805 |
| States | 90,162 | 96.572 | 103,792 | 110,735 | 118,194 |
| Interest from States on cancelled | | | | | |
| securities | 162 | 139 | 144 | 139 | 96 |
| Special contributions by States | 123 | 107 | 107 | 92 | 92 |
| Interest on investments, etc | 70 | 140 | 174 | 308 | 213 |
| Total receipts | 115,067 | 123,280 | 132,195 | 140,783 | 149,400 |
| Expenditure (net cost)— | | | | | |
| Securities repurchased and redeemed in- | | | | | |
| Australia | 87,693 | 94,374 | 94,131 | 100,439 | 111,935 |
| London | 10,824 | 11,574 | 25,939 | 17,876 | 45,107 |
| New York | 11,841 | 14,999 | 15,474 | 6,300 | 6,823 |
| Canada | 462 | 486 | 459 | 164 | 465 |
| Netherlands | 547 | 571 | 571 | 532 | 644 |
| Total expenditure | 111,367 | 122,005 | 136,575 | 125,311 | 164,975 |
| Balance at 30 June | 11,862 | 13,137 | 8,757 | 24,229 | 8,654 |
| Face value of securities repurchased and | | | | | |
| redeemed in— | | | | | |
| Australia | 87,705 | 94, 392 | 94,215 | 100,473 | 111,948 |
| London(a) | 11,438 | 11,496 | 30,008 | 24,131 | 53,483 |
| New York(a) | 5,995 | 7,728 | 8,829 | 4,217 | 4,291 |
| Canada(a) | 245 | 271 | 283 | 119 | 293 |
| Netherlands(a) | 362 | 362 | 362 | 362 | 362 |
| Total face value | 105,745 | 114,250 | 133,697 | 129,300 | 170,378 |

⁽a) Converted in accordance with the Financial Agreement at the equivalent of the mint par of exchange prevailing on 1 July 1927.

State and Local Authorities' Indebtedness

The statistics of indebtedness of State and local authorities set out in the two following tables have been compiled from returns supplied by all local authorities (including New South Wales County Councils), and by autonomous and semi-autonomous State authorities which have independent borrowing powers, i.e. the power to borrow other than by having Commonwealth Government securities issued on their behalf—and which have in fact exercised these powers in borrowing from the public under the provisions of the Loan Council's 'Gentleman's Agreement'.

For further details see the bulletin Local Authorities and Public Corporations: Debt (5.36).

The State authorities covered by these statistics include the authorities responsible for providing the following services.

New South Wales. Water Supply, Sewerage and Drainage, Electricity and Gas Supply, Fire Brigades, Banking, Housing, Harbours, Grain Elevators, Roads and Bridges, Marketing, Industry Assistance, and Miscellaneous.

Victoria. Water Supply and Sewerage, Irrigation and Drainage, Harbours, Transport, Electricity and Gas Supply, Roads and Bridges, Fire Brigades, Marketing (Buying and Selling), Industry Assistance, Grain Elevators, and Housing.

Queensland. Water Supply and Sewerage, Irrigation and Drainage, Harbours, Transport, Electricity Supply, Fire Brigades, University, Hospitals and Ambulances, Marketing (Buying and Selling and Agency), and Industry Assistance.

South Australia. Irrigation and Drainage, Transport, Electricity Supply, Fire Brigades, Hospitals and Ambulances, Marketing (Agency), Industry Assistance, Banking, Housing, University, and Miscellaneous.

Western Australia. Water Supply and Sewerage, Harbours, Transport, Electricity Supply, Fire Brigades, Hospitals, Marketing (Agency), Housing, University, and Miscellaneous.

Tasmania. Harbours, Electricity Supply, Fire Brigades, Transport, Housing, Industry Assistance, and Water Supply.

In the tables which follow, debt includes all liabilities for which arrangements have been made for repayment over a period of one year or more, and net overdrafts. Interest capitalised and amounts due for the capital cost of assets or for services rendered which are to be repaid over a period of one year or more are included. Current liabilities, such as interest accrued (but not capitalised), trade creditors, amounts held in trust, and other debts which are to be repaid in less than one year are not included. Net overdraft is the gross overdraft of all funds less all bank credit balances (including fixed deposits) which do not form part of a sinking fund to repay a loan. New loans raised during the year include new loan liabilities incurred during the year, loans raised from the public to repay indebtedness to the Government, and interest capitalised. Loans raised and redeemed within the year, increases in overdrafts, and loans raised for conversion or redemption of existing debt are excluded. Funds provided for redemption include instalments of principal repaid and amounts credited to sinking funds established for the purpose of repaying the debt on maturity. Amounts provided for redemption from loans raised for that purpose are excluded.

At the time of the preparation of this issue of the Year Book, these statistics were being reviewed with the aim of developing more comprehensive statistics of indebtedness of State and local authorities. Pending the results of this project it has not been practicable to present in the tables following statistics for years later than 1970-71.

STATE AND LOCAL AUTHORITIES: NEW MONEY LOAN RAISINGS, REDEMPTION AND DEBT (\$ million)

| | | | (5 minion | <u>′</u> | | | |
|---|---|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | | | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-7 |
| | | STA | ге ачтно | RITIES | | | |
| New money loan raisings— From government From public | : | : | 149.1 221.4 | 171.3 246.5 | 187.5 293.6 | 200.1 275.2 | 191.7 319.3 |
| Total loan raisings . | | | 370.5 | 417.8 | 481.0 | 475.3 | 511.0 |
| Funds provided for redemption— Government loans Loans due to public | ; | | 26.2 43.1 | 29.0 63.3 | 28.4 66.0 | 31.1 67.5 | 36 5 74.6 |
| Total funds for redemption | | | 69.3 | 92.3 | 94.4 | 98 6 | 111.1 |
| Accumulated sinking fund balance Debt— | | | 178.6 | 196.5 | 214.8 | 233.3 | 240.7 |
| Due to government. Due to banks (net overdraft) Due to public(a). | • | • | 2,299.0 7.5 2,677.0 | 2,441.2 7.0 2,878.5 | 2,600.7 9.4 3,130.2 | 2,769.8 9.0 3,357.9 | 2,930.8 7.4 3,614.0 |
| Total debt | | | 4,983.5 | 5,326.7 | 5,740.3 | 6,136.8 | 6,552.2 |
| of which— Maturing overseas(a) | | | 11.8 | 5.8 | 1.6 | | 1.4 |
| | | LOCA | AL AUTHO | RITIES | | | |
| New money loan raisings— From government From public | : | | 5.5 157.6 | 5.6 178.4 | 8.6 184.3 | 8.2 179.5 | 6.6 191.0 |
| Total loan raisings . | • | • | 162.8 | 184.0 | 192.9 | 187.7 | 197.6 |
| Funds provided for redemption— Government loans Loans due to public | | | 3.9 66.6 | 3.7 71.9 | 3.5 79.0 | 3.4 85.4 | 3.4 89.0 |
| Fotal funds for redemption | | | 70.5 | 75.6 | 82.5 | 88 8 | 92.4 |
| Accumulated sinking fund balance Debt— | | | 73.8 | 81.3 | 91.5 | 97. 7 | 107.9 |
| Due to government Due to banks (net overdraft) Due to public(a) | • | : | 58.3 9 2 1,215.4 | 60.2 4.3 1,328.0 | 65.0 4.8 1,443.2 | 69 9 3.8 1,545.2 | 72.9 3.3 1,654.3 |
| Total debt | | | 1,282.9 | 1,392.5 | 1,513.0 | 1,618.8 | 1,730.5 |
| of which— Maturing overseas(a) | | • | 4.3 | 3.6 | 3.2 | 2.8 | 2.5 |

⁽a) Includes debt payable in London and New York, converted to Australian currency equivalent at the I.M.F. rates of exchange applying as at 30 June in each of the years shown.

STATE AND LOCAL AUTHORITIES: NEW MONEY LOAN RAISINGS, REDEMPTION DEBT AND INTEREST PAYABLE, 1970-71

(\$ million)

| | | | (* | | | | | |
|---|------|-----------------------|-------------------------|---------------|-----------------------|-----------------------|---------------|---------------------------|
| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Tota |
| | | STATE | AUTHO | RITIES | | | | |
| New money loan raisings— From government From public | : : | 34.8 84.8 | 52.4 142.8 | 3.2 42.9 | 34.5 20.2 | 35.9 18.7 | 30.8 9.9 | 191.1 319.1 |
| Total loan raisings . | | 119.5 | 195.2 | 46.1 | 54.8 | 54.6 | 40.7 | 511.0 |
| Funds provided for redemption— Government loans Loans due to public . | : : | 11.0 21.1 | 8.9 35.2 | 3.6 12.0 | 7.2 1.2 | 2.2 2.6 | 3.6 2.5 | 36.: 74. |
| Total funds for redemption | | 32.1 | 44.1 | 15.6 | 8.4 | 4.8 | 6.1 | 111. |
| Accumulated sinking fund balance | | 132.7 | 70.6 | 22.7 | 0.1 | 8.0 | 6.5 | 240.7 |
| Debt— Due to government Due to banks (net overdraft) Due to public creditor (a) | : : | 637.3 2.6 872.3 | 862.6 0.7 1,872.7 | 84.0 410.5 | 504.3 0.1 219.6 | 446.5 3.9 152.4 | 396.1 86.5 | 2,930.8 7.4 3,614.6 |
| Total debt(a) | | 1,512.1 | 2,736.1 | 494.5 | 724.1 | 602.8 | 482.6 | 6,552.2 |
| of which— Maturing overseas(a) Annual interest payable(a) | : : | 81.6 | 1.4 146.6 | 28.3 | 37.6 | 32.8 | 24.7 | 1.4 351.6 |
| | | LOCAL | AUTHO | RITIES | | | | |
| New money loan raisings— From government From public | | 0.2 83.2 | 0.5 26.1 | 4.9 48.7 | 0.9 10.3 | 15.7 | 6.9 | 6.6 191.0 |
| Total loan raisings . | | 83.5 | 26.6 | 53.6 | 11.3 | 15.7 | 7.0 | 197.6 |
| Funds provided for redemption— Government loans Loans due to public | : : | 0.6 39.7 | 0.2 16.3 | 1.8 20.5 | 0.7 2.9 | 6.4 | 3.4 | 3.4 89.0 |
| Total funds for redemption | | 40.3 | 16.5 | 22.3 | 3.5 | 6.4 | 3.4 | 92.4 |
| Accumulated sinking fund balance | | 50.2 | 16.4 | 38.8 | 0.3 | • • | 2.2 | 107.9 |
| Due to government . Due to banks (net overdraft) Due to public creditor(a) . | | 6.2 1.8 763.4 | 8.0 1.4 237.3 | 50.8 434.1 | 6.9 0.1 62.1 | 82.6 | 0.9 74.8 | 72.9 3.3 1,654.3 |
| Total debt(a) | | 771.4 | 246.7 | 484.9 | 69.1 | 82.6 | 75.8 | 1,730.5 |
| of which— Maturing overseas(a) Annual interest payable(a) | : : | 43.5 | 14.4 | 2.5 28.2 | 4.0 | 5.0 | 4.4 | 2.5 99.5 |

⁽a) Includes debt or interest payable in London and New York, converted to Australian currency equivalent at the I.M.F. rates of exchange applying as at 30 June 1971.

Aggregate debt of State and local authorities

The following table brings together figures of Commonwealth Government securities on issue on account of the States, debt outstanding of State authorities which have borrowed directly, and debt outstanding of local authorities, to provide an indication of the level of indebtedness of the public authorities in each State. It should be noted, however, that for the kinds of reasons outlined on page 617, this aggregation of figures for securities on issue and debt outstanding cannot be taken as a measure of the 'net public debt' of the State and local authorities. In order to measure this latter magnitude it would be necessary to identify and deduct the substantial holdings of Commonwealth Government, State and local securities which represent the investment by these authorities of reserve funds and trust and other funds which they administer. In addition, it would be necessary to include the indebtedness of the State authorities to the Commonwealth Government in respect of advances made for specific capital purposes (such as those made under the Commonwealth-State Housing Agreements). For some purposes too it might be necessary to identify and deduct any loans outstanding from governments to other sectors.

STATE AND LOCAL AUTHORITIES' INDEBTEDNESS, 30 JUNE 1967 TO 1971

| | | | State authorities | S | | |
|------------|-------------------------|---|--|-----|---------|-------------------|
| Tota | Local authoritics(a) | State authorities' own borrowings(a) | Commonwealth Government securities issued on account of States | c | | |
| | | TANDING | 10UNT OUTS | AM | | |
| | | (b) | (\$ million) | | | · |
| | | | | | | 30 June 1971— |
| 4,832.9 | 765.2 | 874.8 | 3,192.9 | | | New South Wales |
| 4,460 0 | 238.7 | 1,873.5 | 2,347.8 | | | Victoria |
| 2,134.1 | 434.1 | 410.5 | 1,289.5 | | | Queensland . |
| 1,538.9 | 62.2 | 219.8 | 1,256.9 | | | South Australia . |
| 1,171.5 | 82.6 | 156.3 | 932.6 | | | Western Australia |
| 832.7 | 74.9 | 86.5 | 671.3 | | | Tasmania |
| 14,970 . 1 | 1,657 6 | 3,621.4 | 9,691.1 | | ne 1971 | All States, 30 Ju |
| 14,234.3 | 1,548.9 | 3,365.2 | 9,320.1 | • | 1970 | An Diaics, 20 or |
| 13,418 0 | 1,447.9 | 3,139.6 | 8,830.5 | • | 1969 | |
| 12,534.3 | 1,332.3 | 2,885.5 | 8,316.5 | • | 1968 | |
| 11,843.2 | 1,224.6 | 2,684.5 | 7,934.1 | : | 1967 | |
| | | PULATION | HEAD OF PO | PER | | |
| | | | (\$)(b) | | | |
| | | | | | | 30 June 1971— |
| 1,050.4 | 166.3 | 190.1 | 693.9 | | | New South Wales |
| 1,273.4 | 68.2 | 534.9 | 670.3 | | | Victoria |
| 1,168.0 | 237.6 | 224.7 | 705.8 | | | Queensland . |
| 1,311.2 | 53.0 | 187.3 | 1,070.9 | | | South Australia . |
| 1,136.8 | 80.2 | 151.7 | 905.0 | | | Western Australia |
| 2,132.9 | 191.9 | 221.6 | 1,719.5 | | | Tasmania |
| 1,195.2 | 132.3 | 289.1 | 773.7 | | ne 1971 | All States, 30 Ju |
| 1,166.6 | 126.9 | 275.8 | 763.8 | | 1970 | , 00 00 |
| 1,122.2 | 121.1 | 262.6 | 738.5 | • | 1969 | |
| 1,067.9 | 113.5 | 245.8 | 708.5 | • | 1968 | |
| -, | 106.1 | 232.5 | 687.3 | • | | |

⁽a) Amounts due to central government have been excluded. (b) Debts repayable overseas have been converted to the Australian currency equivalent at IMF rates of exchange applying at 30 June in each of the years shown.

ROADS AND BRIDGES: WATER SUPPLY AND SEWERAGE: HARBOURS

As indicated elsewhere in this chapter, further details of the activities of public authorities engaged in particular fields of activity such as defence, transport and communication, health and welfare, education, electricity supply, banking, etc., may be found in other chapters of this Year Book which deal specifically with those subjects. However, it has been convenient for the time being to include in this chapter an account of the activities of authorities engaged in the fields of construction and maintenance of roads and bridges, provision of water supply and sewerage services and provision of harbour facilities. Particular attention is given to the activities of State authorities engaged in these fields.

Roads and Bridges

Primary responsibility for the construction and maintenance of roads and bridges rests with State and local authorities. In each State there exists a central road authority or a government department which undertakes construction, reconstruction and maintenance of declared 'main' and 'developmental' roads, and which administers the distribution of funds to local authorities and supervises and co-ordinates road construction throughout the State. Provision of roads and bridges has always

been one of the principal functions of local authorities, and these authorities still account for a significant proportion of construction and maintenance activity, as is shown by figures given earlier in this chapter. However the relative importance of the contribution of local authorities has tended to decline in recent years, reflecting in part a reassessment of priorities in allocations of road finance. The Commonwealth Government is concerned with construction and maintenance of roads and bridges in the Northern Territory and Australian Capital Territory and roads of access to Commonwealth Government property in the various States; but the Commonwealth Government's most significant contribution to government activity in this field is in the assistance given to the States in the form of specific purpose capital grants, which constituted about 37 per cent of the total outlay by State and local authorities on roads and bridges in 1973–74.

In what follows, figures are provided of expenditure on road transport by all public authorities, Commonwealth Government grants for road purposes, and an account is given of the activities of the principal State authorities concerned with roads and bridges in each State. For details of mileages of roads open to traffic, classified according to class of road and road surface, see Chapter 12. Transport, and Communication.

All public authorities

The figures given in the following table provide an approximate measure of the aggregate net expenditure on roads and bridges by Commonwealth Government, State and local authorities in recent years. Expenditure on roads by those authorities whose primary activity is directed towards functions other than roads, e.g. electricity, forestry, housing, etc., is not included. The figures cover expenditure on the construction, reconstruction and maintenance of roads and bridges, and direct administration. Debt charges are not normally classified by function and are therefore excluded. Because a satisfactory and consistent distinction between new construction and maintenance cannot be made with existing data, all expenditure on roads and bridges is treated as capital expenditure.

ALL PUBLIC AUTHORITIES: GROSS FIXED CAPITAL EXPENDITURE
ROAD SYSTEMS
(\$ million)

| All public | | | | ies | ocal authorii | State and lo | ommonwealth | |
|---------------|------|------|------|-----|---------------|--------------|------------------------|-------------------|
| authorities | Tas. | W.A. | S.A. | Qld | Vic. | N.S.W. | Government authorities | r |
| 596 | 19 | 56 | 51 | 98 | 162 | 191 | . 19 | 9–70 |
| 639 | 21 | 64 | 50 | 105 | 161 | 217 | . 21 |) - 71 |
| 705 | 22 | 74 | 59 | 116 | 170 | 245 | . 19 | -72 |
| 767 | 24 | 73 | 65 | 135 | 171 | 275 | . 24 | -73 |
| 864 | 26 | 82 | 68 | 155 | 200 | 307 | . 26 | -74 |

Commonwealth Government Grants

The following table shows the allocations to the States of Commonwealth grants for road construction, maintenance, repair and other works connected with transport for each of the years 1970-71 to 1974-75. Prior to 1974-75 these grants were provided under the various Commonwealth Aid Roads Acts, and in 1974-75 under the National Roads Act, the Roads Grant Act, and the Transport (Planning and Research) Act.

COMMONWEALTH GRANTS TO THE STATES FOR ROAD SYSTEMS (\$'000)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Total |
|---------|---|---------|--------|--------|--------|--------|--------|---------|
| 1970-71 | • | 64,980 | 43,460 | 39,560 | 23,500 | 36,270 | 10,230 | 218,000 |
| 1971-72 | | 74,500 | 49,820 | 45,360 | 25,500 | 39,250 | 10,820 | 245 250 |
| 1972-73 | | 85,590 | 57,240 | 52,110 | 28,000 | 43,910 | 12,150 | 279,000 |
| 1973-74 | | 98,270 | 65,720 | 59,830 | 31,000 | 48,030 | 13,950 | 316,800 |
| 1974-75 | | 115,792 | 75,951 | 75,372 | 31,888 | 50,449 | 18.585 | 368,037 |

New South Wales

Main roads administration is organised as a separate department under the control of a Commissioner. The activities of the Department of Main Roads include works on main, secondary, developmental and tourist roads throughout the State, all roads in the unincorporated portion of the Western Division, and certain associated works, principally bridges and vehicular ferries, constructed and maintained from government funds. The Department of Main Roads co-operates with the municipal and shire councils in the work of constructing and maintaining the main roads system.

During 1971-72 changes were made in the method of financing road construction. The New South Wales Government decided that as from 1 January 1972, the full cost of works carried out by the Department of Main Roads was to be met from the Department's own funds. Prior to this date, local councils, in the County of Cumberland were required to meet half the cost of secondary roads construction and a proportion of the cost of tourist roads; and in country districts, councils were required to meet a proportion of the cost of road and bridge construction and maintenance on roads other than State highways. The financial burden was therefore removed from councils in respect of works under the control of the Department of Main Roads. Councils continued to perform work on those roads for which they were responsible in the past.

The funds of the Department of Main Roads are derived principally from motor vehicle taxation, charges on heavy commercial goods vehicles under the Road Maintenance (Contribution) Act, 1958, grants under Commonwealth Aid Roads Acts and subsequent Acts (see page 632), other grants from the State or Commonwealth Governments, and proceeds of a levy on municipal and shire councils in the County of Cumberland in accordance with the Main Roads Act, 1924. The State Government also makes repayable advances for Main Roads Department works, and since 1963 the Commissioner for Main Roads has had the power (with the approval of the Governor on the recommendation of the Treasurer) to borrow moneys. The figures shown below represent the aggregate revenue and expenditure of the following funds: the County of Cumberland Main Roads General and Special Purposes Funds, the Country Main Roads General and Special Purposes Funds, and the Aid Roads Fund.

DEPARTMENT OF MAIN ROADS, NEW SOUTH WALES: REVENUE
AND EXPENDITURE
(\$'000)

| | (* 000) | | | | |
|--|-----------|---------|---------|---------|---------|
| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974–75 |
| | REVENUE | (a) | | | |
| Motor vehicle taxation, registration and | | | | | |
| licence fees | 55,237 | 73,637 | 92,731 | 99,294 | 104,276 |
| Grants— | | | | | |
| Commonwealth Road Grants | 47,129 | 55,617 | 65,924 | 77,628 | 108,796 |
| Other State and Commonwealth grants | 2,400 | 655 | 1,886 | 2,048 | 8,821 |
| Contributions by other departments and | | | | | |
| bodies | 1,155 | 776 | 651 | 641 | 625 |
| Local authorities' contributions— | | | | | |
| Under section 11 of Mains Roads Act . | 11,407 | 5,890 | 311 | 167 | 156 |
| Other | 275 | 645 | 425 | 381 | 436 |
| Sydney-Newcastle Expressway Toll | 2,271 | 2.564 | 2,653 | 3,626 | 4,235 |
| Other | 1,047 | 1,020 | 1,336 | 1,111 | 1,862 |
| Total | 120,920 | 140,804 | 165,915 | 184,896 | 229,206 |
| | EXPENDITU | RE(b) | | | |
| Roads and bridges— | | | | | |
| Construction | 92,154 | 98,055 | 113,987 | 126,761 | 162,465 |
| Maintenance | 22,661 | 26,364 | 29,956 | 35,333 | 43,540 |
| Administration | 7,373 | 9,413 | 9,949 | 11,184 | 12,804 |
| Interest, exchange, etc., on debt | 3,802 | 4,331 | 4,489 | 4,595 | 4,934 |
| Other(c) | 4,038 | 4,291 | 4,359 | 4,217 | 4,887 |
| Total | 130,027 | 142,455 | 162,740 | 182,089 | 228,630 |

⁽a) Excludes repayable advances by the State Government and private loans (\$11,250,000 in 1970-71, \$8,800,000 in 1971-72, \$8,000,000 in 1972-73, \$6,500,000 in 1973-74 and \$10,000,000 in 1974-75) and transfers from Sydney Harbour Bridge Account for Expressway construction (\$70,000 in 1970-71, \$7,000 in 1971-72, \$334,000 in 1972-73, \$7,000 in 1973-74 and \$3,000 in 1974-75). Expenditure from these amounts is fully reflected in expenditure. (b) Excludes debt redemption (\$1,565,000 in 1970-71, \$1,874,000 in 1971-72, \$2,327,000 in 1972-73, \$3,618,000 in 1973-74 and \$2,719,000 in 1974-75). (c) Mainly purchase of assets not subject to annual depreciation charge. The purchase of other assets is omitted here because the depreciation charge for them is reflected each year in 'Roads and bridges'.

Toll facilities operated by the Department of Main Roads include the Sydney Harbour Bridge, the completed sections of the Sydney-Newcastle Expressway and the Southern Freeway.

The Sydney Harbour Bridge was opened for traffic on 19 March 1932, and has a main span of 503 metres with clearance for shipping of 52 metres. The deck, 49 metres wide, carries eight road traffic lanes, two railway tracks, one cycleway and one footway. During 1974-75, approximately 51 million private road vehicles, 23.7 million rail passengers and 11.2 million bus passengers crossed the bridge. Income from tolls during 1974-75 amounted to \$5,299,000, including road tolls of \$4,983,000, and a lump sum contribution of \$316,000 for rail and bus passengers in lieu of the per capita toll charge.

The sections of the Sydney-Newcastle Expressway now open to traffic extend approximately 26 kilometres between Berowra and Calga. Total cost of the project was \$36million. Toll collections during the year ended 30 June 1975 amounted to \$4,235,000. Southern Freeway was opened to traffic on 24 July 1975 and extends for approximately 23 kilometres between Waterfall and Bulli Pass. Total cost of the tollway to 30 June 1975 was \$22 million.

Victoria

With the object of improving the main roads of the State, the Country Roads Board was established by legislation passed in 1912. The principal duties of the Board are to determine which roads should be declared in the various classifications; to supervise the construction, reconstruction and maintenance of these roads; to inquire into the State's resources in road materials and the most effective methods of road construction and maintenance; and to recommend deviations in existing roads or the construction of new roads in order to facilitate communications or to improve the conditions of traffic.

The funds of the Country Roads Board are derived principally from motor registration fees, including a major portion of the fees credited for the Roads (Special Projects) Fund, a proportion of drivers' licence fees, payments by the Commonwealth Government under the Commonwealth Roads Acts and subsequent legislation (see page 632), roads charges under the Commercial Goods Vehicles Act, repayments by municipalities, and grants and loans from the State Government. From 1 July 1974, the Country Roads Board acquired from the Melbourne and Metropolitan Board of Works the latter's road-making powers, road assets, etc., plus relevant staff, thus increasing the scope of the Country Roads Board's responsibilities. Some of the major works taken over and being completed by the Country Roads Board are the construction of the Eastern Freeway from Collingwood to Bulleen, the Mulgrave Freeway and the Johnson Street Bridge in South Melbourne which will connect to the proposed Freeway F9 from the West Gate Bridge.

Major rural works currently being carried out by the Country Roads Board include the upgrading of the Hume Highway to freeway standard between Melbourne and Albury/Wodonga, and the construction of a bridge carrying the Princes Highway across the Snowy River at Orbost.

COUNTRY ROADS BOARD, VICTORIA: RECEIPTS AND PAYMENTS
(\$'000)

| | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|---|---------|---------|---------|---------|-----------|
| | RECEIPT | S | | | |
| Motor Car Act—registration and licence | | | | | |
| fees (less cost of collection) | 32,895 | 34,296 | 35,428 | 37,537 | 41,985 |
| Municipalities' payments | 2,018 | 2,190 | 2,182 | 2,136 | 2,047 |
| Commonwealth Roads Acts | 41,425 | 45,300 | 49,785 | 55,274 | (a)78,977 |
| Roads (Special Projects) Fund | 7,761 | 6,721 | 5,675 | 7,643 | 30,429 |
| Road charges, Commercial Goods Vehicles | | | | | |
| Act | 8,903 | 9,136 | 9,745 | 10,359 | 10,038 |
| Loans from State Government | 388 | 400 | 400 | 300 | 300 |
| Grants from State Government | 783 | 983 | 1,333 | 568 | 772 |
| Other | 543 | 713 | 703 | 860 | 1,247 |
| Total | 94,715 | 99,739 | 105,251 | 114,677 | 165,795 |

COUNTRY ROADS BOARD, VICTORIA: RECEIPTS AND PAYMENTS—continued (\$'000)

| | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-----------------------------------|-------|----|-------|-----|---------|---------|---------|---------|---------|
| | | | | | PAYMENT | rs | | | |
| Construction and mainten bridges— | anc | of | roads | and | | | | | |
| State highways. | | | | | 20,465 | 22,113 | 18,044 | 18,974 | 26,445 |
| Main roads . | | | | | 19,373 | 20,372 | 20,660 | 20,142 | 26,499 |
| Freeways . | | | | | 18,869 | 18,345 | 23,857 | 30,391 | 49,352 |
| Tourist roads . | | | | | 2,665 | 2,284 | 1,749 | 1,860 | 2,134 |
| Forest roads . | | | | | 902 | 858 | 840 | 910 | 1,102 |
| Unclassified roads | | | | | 17,217 | 16,846 | 17,513 | 19,242 | 28,334 |
| Other | | | | | 69 | 120 | 130 | 177 | 124 |
| Plant purchase . | | | | | 1,956 | 2,060 | 1,765 | 1,116 | 1,783 |
| Buildings, workshops, etc | :. | | | | 599 | 331 | 641 | 565 | 806 |
| Interest, debt redemption | , etc | | | | 2,504 | 2,584 | 2,612 | 2,619 | 2,688 |
| Statutory payment to - | • | | | | • | • | • | , | • |
| Tourist Fund . | | | | | 617 | 658 | 686 | 709 | 751 |
| Traffic Authority Fund | 1 | | | | 309 | 329 | 343 | 354 | 375 |
| Transport Regulation I | | d. | | | 513 | 5 34 | 548 | 585 | 622 |
| Administration and other | | | • | | 9,780 | 12,250 | 14,099 | 18,099 | 24,954 |
| Total | | | | | 95,838 | 99,685 | 103,487 | 115,742 | 165,969 |

The Melbourne and Metropolitan Board of Works was responsible, up to 30 June 1974, for carrying out planning scheme proposals relating to metropolitan highways and bridges. However, as indicated above, from 1 July 1974 the Board's road-making powers, road assets, etc., were transferred to the Country Roads Board. Up to that time, the Board of Works had completed the South Eastern Freeway to Tooronga, the Tullamarine Freeway to serve Melbourne Airport, and other important projects. Total expenditure by the Board on road projects up to 30 June 1974 was \$112.0 m of which \$27.5 m was financed from the proceeds of the Board's Metropolitan Improvement Rate, \$60.0 m was contributed by the Treasurer of Victoria from the Roads (Special Projects) Fund, and \$24.5 m from the Commonwealth Aid Roads Funds.

The West Gate Bridge Authority (originally called the Lower Yarra Crossing Authority—the name of the Authority was changed on 24 September 1974) was incorporated in October 1965 as a company limited by guarantee and given powers under the Lower Yarra Crossing Authority Act 1965 to construct, operate and maintain a toll crossing over the lower reaches of the River Yarra.

Oueensland

The Department of Main Roads was constituted in February 1951 with the Commissioner of Main Roads as its permanent head. The duties of the Commissioner are to carry out surveys and investigations necessary to determine State highways, main developmental, and secondary roads; and the responsibility for building and maintaining these declared roads is largely that of the Commissioner. Roads of purely local importance are constructed and maintained by local authorities. In many cases construction is financed by the State Government by means of Treasury loans. Other roads may be built by the Public Estate Improvement Branch of the Lands Department in order to open up areas of previously inaccessible or undeveloped country.

The funds of the Department of Main Roads are obtained chiefly from motor vehicle registration and collections, fees, etc., under the Transport Acts, grants from the Commonwealth Government (see page 632) and loans, grants and advances from the State Government. The total receipts and payments during each of the years 1970-71 to 1974-75 are shown in the following table.

DEPARTMENT OF MAIN ROADS, QUEENSLAND: RECEIPTS AND PAYMENTS (\$'000)

| | (*/ | | | | |
|--|----------|---------|---------|-------------|---------|
| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| | RECEIPT: | S | | | |
| Motor vehicle registration, Transport Acts | | | - | | |
| collections, fees, etc | 25,000 | 26,886 | 29,303 | 31,802 | 33,650 |
| Loans from State Government | 50 | 500 | 1,750 | 1,400 | 5,800 |
| Grants from State Government | 378 | 183 | 313 | 200 | 1,422 |
| Roads (Contribution to Maintenance) Act | 4,689 | 4,862 | 3,527 | 3,621 | 3,366 |
| Commonwealth (Roads Grants) | 47,285 | 55,298 | 58,444 | 68,018 | 80,139 |
| Maintenance repayments - local authorities | 1,116 | 1,137 | 1,302 | 1,271 | 876 |
| Hire, rent, sales of plant, etc | 6,074 | 6,517 | 7,413 | 8,012 | 9,761 |
| Other | 773 | 750 | 961 | 1,686 | 1,541 |
| Total | 85,366 | 96,132 | 103,013 | 116,010 | 136,554 |
| | PAYMENT | rs | | | |
| Permanent road works and surveys(a) . | 56,802 | 62,942 | 69,557 | 73,603 | 91,52 |
| Maintenance of roads | 10,911 | 13,189 | 13,574 | 18,608 | 25,554 |
| Plant, machinery, buildings, etc. (including | • | | | | |
| plant maintenance) | 3,348 | 4,797 | 5,130 | 5,483 | 6,21 |
| Loans— | | | | | |
| Interest | 59 | 108 | -216 | -241 | -12 |
| Redemption | 895 | 847 | 798 | 765 | 74. |
| Administration and other | 12,870 | 14,947 | 17,617 | 21,846 | 23,82 |
| Total | 84,883 | 96,614 | 106,459 | 120,065 | 147,729 |

⁽a) Includes grants to local authorities for road purposes.

South Australia

The Highways Department is administered by the Commissioner of Highways, who is empowered, subject to the approval of the Minister of Transport, to undertake the construction, maintenance and protection of the principal roads of the State, allocate grants to Councils for roadworks and supervise the expenditure of these grants, and assist the Councils to purchase road-making plant and to defray the cost of road-works. In addition, the Commissioner advises Councils on technical questions concerning the construction, maintenance or repair of roads. Funds of the Department are derived mainly from the Highways Fund, into which are paid the proceeds from motor vehicle registration and drivers' licences (less cost of collection), appropriations from loan funds, repayments of advances made to Councils, and contributions by the Bus and Tram Division of the State Transport Authority and from grants from the Commonwealth Government (see page 632).

The following table shows particulars of receipts and payments, during the years 1970-71 to 1974-75, of funds controlled by the Highways Department.

HIGHWAYS DEPARTMENT, SOUTH AUSTRALIA: RECEIPTS AND PAYMENTS (\$'000)

| | 1970–71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---|--------------------------------|--------------------------------|------------------------------|----------------------|-----------------|
| | RECEIPT | S | | | |
| Motor vehicle registration, licences, fees . | 14,212 | 18,000 | 18,828 | 19,872 | 25,840 |
| Commonwealth Roads Grants Acts | 23,500 4,022 | 25,500 4,088 | 28,000 5,157 | 31,000 6,571 | 31,769 4,871 |
| | 7,022 | 4,000 | 3,137 | 0,571 | 4,071 |
| Total | 41,733 | 47,589 | 51,985 | 57,443 | 62,481 |
| | PAYME | NTS | | | |
| Construction and reconstruction of roads | PAYME | NTS | | | |
| Construction and reconstruction of roads and bridges(b) | PAYME: | NTS 32.049 | 33,604 | 35,210 | |
| and bridges(b) | | | 33,604 11,197 | 35,210 11,483 | 54,144 |
| and bridges(b) | 27,356 | 32,049 | | | 54,144 675 |
| and bridges(b) | 27,356 11,575 | 32,049 13,303 | 11,197 | 11,483 } | 675 |
| and bridges(b) | 27,356 11,575 556 | 32,049 13,303 580 | 11,19 7 619 | 11,483 } 653 | - |
| and bridges(b) | 27,356 11,575 556 251 | 32,049 13,303 580 305 | 11,19 7 619 262 | 11,483 } 653 4 | 675 42 |

⁽a) Includes reimbursement works for Commonwealth Government. (b) Includes administration expenses. (c) Represents gross repayments less recoveries by charges to works on account of depreciation and materials used.

Western Australia

Work connected with road construction and maintenance and associated projects in Western Australia is undertaken by the State Government, through the Main Roads Department, and by local government authorities throughout the State. The Department operates under the *Main Roads Act* 1930–1975 and is administered by a Commissioner of Main Roads who is responsible to the Minister for Transport. The Act makes provision for the construction and maintenance of public roads in the categories of highways, main and secondary roads, other roads, and the control of access to roads. Within its own district each local government authority is responsible for the provision and upkeep of roads other than those provided by the Main Roads Department. In addition, the local authorities are required by the *Main Roads Amendment Act* 1975 to maintain secondary roads within or along their boundaries.

Revenue for road works in Western Australia is derived principally from allocations made under Commonwealth roads grants (see page 632). Other sources of income for road works are all motor vehicle licence fees (other than recording fees), excess load permit fees and one half of drivers' licences which are paid to the Main Roads Trust Account under authority to the Road Traffic Act 1974-75. Further moneys for expenditure on road maintenance are available under the Road Maintenance (Contribution) Act 1965-72, the Transport Commission Act 1966-75 and from payments by local government authorities in respect of permanent works and the maintenance of highways, main and secondary roads.

Receipts and payments for the years 1970-71 to 1974-75 are shown in the following table.

MAIN ROADS DEPARTMENT, WESTERN AUSTRALIA: RECEIPTS AND PAYMENTS
(\$'000)

| | | 1970-71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|--|-----|---------|---------|---------|------------|---------|
| | REG | CEIPTS | | | | |
| Motor vehicle registration fees, etc | | 13,463 | 14,245 | 14,567 | 15,321 | 23,987 |
| Commonwealth Roads Grants | | 36,270 | 39,250 | 43,910 | 48,030 | 50,195 |
| States Grants (Beef Cattle Roads) Act . Other Grants | | 1,000 | 1,600 | 1,900 | 981 255 | 205 |
| Road Maintenance (Contribution) Act Recoups from other Government Department | nte | 3,990 | 3,822 | 3,359 | 3,682 | 4,178 |
| and Local Authorities for works carried out | | 2,417 | 2,295 | 2,672 | 2,788 | 4,044 |
| Other | | 233 | 434 | 461 | 477 | 487 |
| Total | | 57,374 | 61,646 | 66,870 | 71,534 | 83,096 |
| | PAY | MENTS | | | | |
| Road construction and maintenance Other road works—signals, traffic engineerin | 12. | 36,828 | 44,887 | 47,111 | 45,675 | 54,726 |
| etc | | 854 | 784 | 777 | 1,075 | 2,067 |
| Statutory grants to Local Authorities . | | 11,716 | 12,435 | 13,295 | 13,962 | 15,044 |
| Administration, supervision, etc | | 6,312 | 7,231 | 8,296 | 9,893 | 12,050 |
| Other | • | 1,968 | 328 | 410 | 304 | 324 |
| Total | | 57,678 | 65,665 | 69,889 | 70,910 | 84,211 |

Tasmania

Under the Roads and Jetties Act 1935, the control of the construction and maintenance of roads and certain road-making plant was vested in the Minister for Lands and Works. Works authorised by the Minister in respect of roads classified as State highways, main roads, secondary roads and tourist and developmental roads are constructed by the Department of Public Works and financed from the State Highways Trust Fund, into which are paid the grants from the Commonwealth Government (see page 632), motor vehicle taxes and public vehicle fees. Loan funds are also authorised by Parliament for road purposes. Municipal councils contribute towards the cost of maintaining main and secondary roads in the classified system. The maintenance of roads not included in the classified system is the responsibility of municipal councils, but they are assisted with grants made available under the Roads Grants Act.

The following table gives a detailed analysis only of funds available to the State government and expenditure from the State Road Funds for the years 1970-71 to 1974-75.

STATE ROAD FUNDS; TASMANIA: RECEIPTS AND PAYMENTS (\$'000)

| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---|---------|---------|---------|---------|---------|
| | RECEIPT | s | | | |
| Motor vehicle taxation, registration, licences, | | | | | |
| fees, fines, etc | 5,033 | 5,659 | 5,912 | 6,338 | 6,660 |
| Commonwealth Roads Grants | 10,230 | 10,820 | 12,150 | 13,950 | 18,620 |
| State Loan Fund | 1,020 | 930 | 540 | 710 | 936 |
| Contributions by Local Authorities | 17 | 17 | 19 | 17 | 18 |
| Other | 93 | 307 | 277 | 441 | 429 |
| Total | 16,393 | 17,733 | 18,897 | 21,456 | 26,662 |
| | PAYMENT | гѕ | | | |
| Construction and reconstruction of roads | | | | | |
| and bridges | 12,320 | 12,960 | 13,810 | 15,757 | 18,936 |
| Maintenance of roads and bridges | 4,297 | 4,475 | 4,686 | 4,978 | 6,494 |
| Planning and research | 185 | 189 | 186 | 220 | 363 |
| Total | 16,802 | 17,624 | 18,682 | 20,955 | 25,793 |
| | | | | | |

Water supply, sewerage and drainage

The information in this section relates primarily to the metropolitan areas and provincial cities and towns. For information on water supply and irrigation in rural areas see Chapter 23, Water Resources.

New South Wales

The two largest domestic water supply and sewerage systems are controlled by statutory boards each consisting of a president and a vice-president appointed by the State Government, and five members elected by local councils. These are (a) the Metropolitan Water, Sewerage and Drainage Board, which administers the systems in the County of Cumberland, i.e. in Sydney and in the surrounding districts, and, in addition, has jurisdiction over territory extending along the South Coast beyond Wollongong to Lake Illawarra, Shellharbour and Kiama, and (b) the Hunter District Water Board serving the Newcastle-Maitland-Cessnock areas. At Broken Hill and Cobar similar boards include representatives of the mining companies. Other systems, apart from irrigation projects and water storage systems administered by the State Government, are controlled by county, municipal or shire councils.

Metropolitan and Hunter District water supply. The storage reservoirs of the metropolitan water supply system with a combined available capacity of 2,623,275 megalitres, drain catchment areas of 16,650 square kilometres (including Warragamba, 9,000 square kilometres, Shoalhaven, 5,620 square kilometres, Upper Nepean, 900 square kilometres and Woronora, 85 square kilometres). The development of a water supply system on the Warragamba River was completed with the official opening of the Warragamba Dam in October 1960. This dam, constructed in concrete, has a storage capacity of 2,057,000 megalitres. Its safe net draught is estimated to be 1,246 megalitres a day. At 30 June 1975 there were 201 service reservoirs in use with a combined capacity of 4,247 megalitres. Fluoridation of the metropolitan water supply commenced in April 1968.

The following table shows, for the Metropolitan system, the number of properties, the estimated population supplied, and other details.

METROPOLITAN WATER SUPPLY(a), NEW SOUTH WALES: SERVICES

| | | | Average of consumpt | | | | | |
|------------------------|-----------------------|--|---------------------|--|--------------------------------------|-------------------------------|--|---------|
| Number of meters | Length of mains | Per head of estimated popu- lation | Per property | Total con- sumption for the year | Average daily con- sumption | Estimated population supplied | Improved properties for which water mains available | Year |
| | kilo- | | | mega- | mega- | | | |
| | metres | litres | litres | litres | litres | '000 | | |
| 608,851 | 14,441 | 441 | 1,628 | 485,795 | 1,332 | 3,042 | 817,655 | 1970-71 |
| 634,211 | 14,798 | 441 | 1,596 | 490,241 | 1,341 | 3,040 | 839,984 | 1971-72 |
| 655,156 | 15,163 | 464 | 1,646 | 518,100 | 1,418 | 3,063 | 862,353 | 1972-73 |
| 669,381 | 15,461 | 448 | 1,570 | 504,575 | 1,380 | 3,089 | 880,543 | 1973-74 |
| 699,259 | 15,714 | 477 | 1,647 | 545,180 | 1,494 | 3,132 | 906,646 | 1974-75 |

⁽a) County of Cumberland, City of Greater Wollongong, Shellharbour and Kiama Municipalities, and parts of Colo and Wollondilly Shires.

The water supply of the *Hunter District system* is drawn principally from three sources; the Chichester Reservoir, with a storage capacity of about 17,000 megalitres and draining a catchment of 197 square kilometres, the Tomago Sandbeds, which extend northerly along the coast towards Port Stephens, and the Grahamstown Water Supply Scheme which is still being developed. Another source of supply is provided by the Nelson Bay-Anna Bay Scheme. Service reservoirs and tanks distributed throughout the water supply district have a total storage capacity of 636 megalitres.

Metropolitan and Hunter District sewerage and drainage system. The metropolitan sewerage and drainage system serving the Sydney Statistical Division comprises 4 major sewerage systems and 12 minor systems, consisting of 6 outfalls discharging directly into the Pacific Ocean and 12 treatment works. There are also 3 centres outside the Sydney Statistical Division (Bellambi, Port Kembla and Wollongong) which discharge directly into the Pacific Ocean. Stormwater drainage channels under the control of the Metropolitan Water, Sewerage and Drainage Board at 30 June 1975 were 314 kilometres long.

The following table gives details of sewerage services and stormwater drains of the Metropolitan system.

METROPOLITAN SEWERAGE AND DRAINAGE(a) NEW SOUTH WALES: SERVICES

| Length of stormwater channels | Length of sewers | Estimated population served | Improved properties for which sewerage available | | 1e | 30 Jun |
|-------------------------------------|------------------|-----------------------------|--|------|----|--------|
| Kilometres | Kilometres | '000 | | | | |
| 307 | 11,441 | 2,477 | 659,035 | | | 1971 |
| 309 | 11,965 | 2,531 | 696,342 | | | 1972 |
| 312 | 12,511 | 2,600 | 725,838 | | | 1973 |
| 313 | 13,018 | 2,662 | 753,752 | | | 1974 |
| 314 | 13,492 | 2,747 | 790,286 | | | 1975 |

⁽a) County of Cumberland, City of Greater Wollongong, Shellharbour and Kiama Municipalities, and parts of Colo and Wollondilly Shires.

The main sewerage system of the *Hunter District* serves the City of Newcastle and discharges into the Pacific Ocean at Burwood Beach. There are also local treatment works at Maitland, Cessnock and some of the outlying districts.

Metropolitan system finances. The following table shows the debt, revenue and expenditure of the Metropolitan Water, Sewerage and Drainage Board for each of the services of water supply, sewerage and drainage during 1974–75, and for the three services combined for the years 1970–71 to 1974–75.

METROPOLITAN(a) WATER SEWERAGE AND DRAINAGE BOARD, NEW SOUTH WALES: FINANCES (§'000)

| | | | | | | Expenditi | ure | | | |
|----------|----|---|---|-------------------------------|---------|----------------------------|-----------------------------|-------------------------|---------|---------|
| Year | | | | Capital debt at 30 June | Revenue | Working expenses (b) | Interest and exchange | Debt redemp- tion | Total | Surplus |
| 1974-75— | | | | | | | | | | _ |
| Water | | | | 433,662 | 77,416 | 44,965 | 23,625 | 8,818 | 77,408 | 8 |
| Sewerage | | | | 543,188 | 78,802 | 37,269 | 30,908 | 10,618 | 78,795 | 7 |
| Drainage | • | • | • | 15,511 | 4,401 | 3,378 | 813 | 203 | 4,394 | 8 |
| Total— | | | | | | | | | | |
| 1974- | 75 | | | 992,361 | 160,620 | 85,613 | 55,346 | 19,638 | 160,597 | 23 |
| 1973- | 74 | | | 855,741 | 151,027 | 86,940 | 46,588 | 17,477 | 151,005 | 22 |
| 1972- | 73 | | | 769,930 | 136,592 | 78,538 | 42,522 | 15,524 | 136,584 | 10 |
| 1971- | 72 | | | 715,978 | 119,851 | 68,083 | 37,736 | 14,017 | 119,836 | 14 |
| 1970- | 71 | | | 654,420 | 97,694 | 52,289 | 33,259 | 12,135 | 97,683 | 11 |

(a) County of Cumberland, City of Greater Wollongong, Shellharbour and Kiama Municipalities, and parts of Colo and Wollondilly Shires.

(b) Includes provision for renewals, long service leave, etc.

Local government country water supply and sewerage systems. At 31 December 1974, country water supply services were conducted or under construction by 45 municipalities, 98 shires and 6 county councils, and country sewerage services by 51 municipalities and 83 shires. The capital indebtedness of these schemes was \$194,588,000 at 31 December 1974. Debt of the municipalities and shires amounted to \$175,838,000 and county councils to \$18,750,000. Government advances amounting to \$825,000 are included in these figures. Aggregate income and expenditure amounted to \$49,700,000 and \$34,714,000, respectively, in 1974.

Other country water supply and sewerage systems. The water supply and sewerage services for Broken Hill are operated by a statutory board, the Broken Hill Water Board. Its capital indebtedness at 31 December 1974 was \$4,084,000. In 1974, income (excluding subsidies, State Government \$297,000 and mining companies \$910,000) amounted to \$864,000 and expenditure (excluding debt redemption of \$350,000) amounted to \$1,795,000. The Cobar Water Board was constituted in February 1964. At 31 December 1974 its capital indebtedness was \$2,021,000. The following country water supply systems—South-West Tablelands, Junee, and Fish River—are administered by the Department of Public Works. These supply water in bulk to municipalities and shires, the Electricity Commission of New South Wales, and other large consumers. Only a small quantity is sold direct to private consumers. The capital indebtedness of these systems was \$15,061,000 at 31 December 1974. The Mulwala Water Supply and Sewerage Service was constructed as an urgent war-time work for the Commonwealth Government, and the Bethungra Water Supply System is administered by the Department of Public Works in conjunction with the Junee supply.

Victoria

Melbourne and Metropolitan Board of Works. The Board consists of a Chairman, Deputy Chairman, and 53 Commissioners elected to represent the municipalities which lie wholly or partly within the metropolitan area. The principal functions of the Board are: to control and manage the metropolitan water supply system; to provide the metropolitan area with an efficient main and general sewerage system; to deal with main drains and main drainage works; to control and manage the rivers, creeks and watercourses within the metropolitan area; and to carry out the functions of a permanent planning authority.

Metropolitan water supply. There are 7 storage reservoirs serving the metropolitan area. These have an effective capacity (in megalitres) of approximately: Yan Yean, 30,000; Maroondah, 22,000; O'Shannassy, 4,000; Silvan, 40,000; Upper Yarra, 200,000; Greenvale, 27,000 and Cardinia, 287,000; total 610,000. Service reservoirs number 67, with a total capacity of approximately 1,840 megalitres. The following table shows particulars of Melbourne metropolitan water supply services for the years 1970-71 to 1974-75.

MELBOURNE WATER SUPPLY: SERVICES

| | Length of acqua- | otion | aily consump | Average do | | | | |
|------------------------|---------------------------------------|--|-----------------------------|------------|--|---|--|---------|
| Number of meters | ducts, etc., mains and reticu- lation | Per head of esti- mated popu- lation | Per improved property | Total | Total con- sumption for the year | Esti- mated popu- lation supplied | Number of improved properties supplied | Year |
| | kilometres | litres | litres | megalitres | megalitres | '000 | | |
| 630,020 | 11,808 | 386.2 | 1,309 | 911 | 332,506 | 2,318 | 696,018 | 1970-71 |
| 644,904 | 12,012 | 370.1 | 1,254 | 906 | 331,465 | 2,363 | 722,016 | 1971–72 |
| 663,994 | 12,268 | (a)342.7 | 1,153 | 864 | 315,208 | 2,415 | 748,990 | 1972–73 |
| 678,361 | 12,434 | 405.5 | 1,260 | 991 | 361,858 | 2,445 | 787,052 | 1973-74 |
| 688,753 | 12,724 | 393.7 | 1,204 | 974 | 355,625 | 2,475 | 809,372 | 1974–75 |

⁽a) Restrictions on use of water imposed due to drought conditions.

Metropolitan sewerage and drainage. Particulars of sewerage and drainage services for 1970-71 to 1974-75 are shown below.

MELBOURNE SEWERAGE AND DRAINAGE: SERVICES

| | | ge | aily dischar | Average de | | Esti- mated | Number of | |
|----------------------------------|---------------------------------|--|-----------------------------|------------|---|---|--|---------|
| Length of mains' drains | Length of sewers, etc. | Per head of esti- mated popu- lation | Per improved property | Total | Total sewage discharge for the year | popu- lation for which sewers are provided | improved properties for which sewers are provided | Year |
| kilometres | kilometres | litres | litres | megalitres | megalitres | '000 | | |
| 418 | 8,390 | 277 | 907 | 507 | 185,003 | 1,827 | 559,000 | 1970-71 |
| 426 | 8,501 | 279 | 915 | 526 | 192,750 | 1,885 | 575,221 | 1971-72 |
| 438 | 8,731 | 287 | . 940 | 556 | 202,792 | 1,939 | 591,673 | 1972-73 |
| 447 | 8,920 | 295 | 967 | 600 | 219,144 | 2,036 | 621,161 | 1973-74 |
| 454 | 9,331 | 297 | 958 | 613 | 223,879 | 2,068 | 640,165 | 1974–75 |

The metropolitan sewerage system consists of a major system (served by Brooklyn Pumping Station and the Werribee Board of Works Farm) serving an area of 52,500 hectares and the following seven subsidy systems—Braeside (2,800 hectares), Kew (46 hectares), Maribyrnong (74 hectares), Lower Plenty (900 hectares), Heatherton (850 hectares), Altona (180 hectares) and Chelsea (300 hectares).

In addition, regional purification facilities have been established in the Dandenong Valley at Nunawading, Waverley and Knox (Stud Road and Ferny Creek) to provide service to developing areas of the Dandenong Valley until such time as a major trunk sewer and a new South-Eastern purification complex are established.

The Board of Works Farm is situated about 39 kilometres south-west of Melbourne near Werribee. It is 10,850 hectares in area and purifies approximately 96 per cent of the metropolitan sewerage flow before discharging it into Port Phillip Bay.

Completion of the South-Eastern Sewerage System will allow diversion of flows on the eastern side of the metropolis away from the Farm, and also allow service of areas to the north-east, east and south-east of the metropolis, which cannot be served by the Board of Works Farm. Purified effluent from the South-Eastern Purification Plant, under construction at Carrum, south of Melbourne, will flow to Cape Schanck more than 50 kilometres further south.

Melbourne and Metropolitan Board of Works' finances. The following table provides for the year 1974-75 a summary of the financial operations of the water supply, sewerage and drainage services conducted by the Melbourne and Metropolitan Board of Works, and of the combined services for the years 1970-71 to 1974-75. The financial operations of the Board as the Authority responsible for metropolitan highways and bridges are referred to on page 635.

MELBOURNE AND METROPOLITAN BOARD OF WORKS: FINANCES (\$'000)

| | Capital cost of works and | | Expenditu | re | | | | Surplus |
|-----------------|------------------------------------|---------|---------------------|-------|-----------------------------|-------------------------|---------|-----------------------------|
| Service, etc. | buildings at 30 June(a) | Revenue | Working expenses | Works | Interest and exchange | Debt redemp- tion | Total | (+) or deficit (-) |
| Water | . 375,356 | 44,960 | 17,925 | 1,400 | 19,926 | | 39,251 | + 5,709 |
| Sewerage | . 541,686 | 62,180 | 23,179 | 2,600 | 29,378 | | 55,158 | + 7,022 |
| Drainage | . 57,104 | 8,381 | 3,787 | 1,000 | 2,404 | | 7,191 | + 1,190 |
| General(b). | . 42,211 | | 5,900 | | • • | 7,164 | 13,064 | -13,064 |
| Total 1974-75 | . 1,016,356 | 115,521 | 50,791 | 5,000 | 51,708 | 7,164 | 114,663 | + 858 |
| 1973–74 | . 871,984 | 89,878 | 36,199 | 5,000 | 42,027 | 6,148 | 89,373 | + 505 |
| 1972–73 | . 755,732 | 74,340 | 28,376 | 5,000 | 36,978 | 5,499 | 75,853 | -1,513 |
| 1971-72 | . 646,054 | 67,757 | 26,047 | 5,000 | 30,700 | 4,517 | 66,264 | +1,493 |
| 1970-71 | . 562,980 | 57,364 | 22,542 | 3,550 | 26,700 | 3,854 | 56,645 | + 719 |

⁽a) Total loan indebtedness—1974-75, \$866,683,000. (b) Statutory and general expenditure not distributed over services.

State Rivers and Water Supply Commission. Water supply and conservation throughout Victoria, (except for the area controlled by the Melbourne and Metropolitan Board of Works) is under the jurisdiction of the State Rivers and Water Supply Commission. The events leading to the establishment of the Commission, and its various works are described in the chapter, Water Resources.

Queensland

The Brisbane City Council operates the water supply and sewerage systems of the City of Brisbane and also supplies, in bulk, the whole of the water used by the City of Ipswich and a portion of that used by the City of Redcliffe, Albert Shire Council, Beaudesert Shire Council and Moreton Shire Council. Redcliffe supplements its supply from that of the Pine Rivers Shire Council, while Albert and Moreton also draw on their own reservoirs. The total number of service reservoirs for Brisbane Water Supply is 32 with a capacity of 531 megalitres. The Somerset reservoir is a dual purpose project with a designed total holding capacity of 910,000 megalitres, 370,000 megalitres to be for water storage and 540,000 megalitres for flood mitigation. The following table is a summary of operations of the water supply system of the City of Brisbane for the years 1970–71 to 1974–75.

CITY OF BRISBANE WATER SUPPLY: SERVICES

| Length of trunk | Average daily consumption | | Total | Average | | | | |
|----------------------------------|----------------------------------|----------------|-------------------------------------|--------------------------------------|-------------------------------|-----------------------|--|---------|
| and reticu lation main. | Per head of estimated population | Per service | con- sumption for the year | Average daily con- sumption | Estimated population supplied | Services connected | | Year |
| kilometre | litres | litres | megalitres | megalitres | | | | |
| 3,754 | 500 | 1,823 | 128,902 | 353.2 | 705,858 | 193,917 | | 1970–71 |
| 3,829 | 541 | 1,923 | 139,299 | 380.5 | 704,588 | 197,918 | | 1971-72 |
| 3,930 | 582 | 2,068 | 151,736 | 415.5 | 715,702 | 201,040 | | 1972-73 |
| 4,013 | 557 | 1,937 | 145,985 | 400.0 | 720,468 | 206,438 | | 1973-74 |
| 4,07 | 649 | 2,168 | 164,939 | 451.9 | 731,648 | 208,454 | | 1974-75 |

The sewerage treatment works of the *Brisbane sewerage scheme* is situated at Luggage Point at the entrance to the Brisbane River. The following table is a summary of operations of the Brisbane sewerage scheme for the years 1970–71 to 1974–75.

BRISBANE SEWERAGE: SERVICES

| Length of main, branch, reticulation, etc., sewers | Total sewage pumped for the year | Estimated population served | Premises connected | Year | |
|--|---|-----------------------------------|-----------------------|------|---------|
| kilometres | megalitres | | | | |
| 3,658 | 42,429 | 565,371 | 152,803 | | 1970-71 |
| 4,033 | 40,642 | 596,603 | 167,585 | | 1971-72 |
| 4,369 | 41,397 | 648,575 | 182,184 | | 1972-73 |
| 4,672 | 53,372 | 673,074 | 192,858 | | 1973-74 |
| 4,820 | 48,739 | 706,191 | 202,347 | | 1974-75 |

Brisbane City Council water supply and sewerage systems—finances. The following table shows particulars of the finances of the water supply and sewerage undertakings of the Brisbane City Council for the years 1970-71 to 1974-75.

BRISBANE WATER SUPPLY AND SEWERAGE: FINANCES
(\$'000)

| | | | C | | Expenditu | Expenditure | | | | |
|------------------|---|---|--|---------|---------------------|---|--------|----------------------------------|--|--|
| Service and year | | | Gross capital cost to 30 June | Revenue | Working expenses | Interest, redemption etc., charges Total(a) | | Surplus (+) or deficit (–) | | |
| Water supply— | _ | | | | | | | | | |
| 1970-71 . | | | 85,157 | 11.769 | 4,687 | 3,432 | 11,816 | - 47 | | |
| 1971-72 . | | | 95,135 | 13,604 | 5,436 | 4.052 | 10,748 | + 2,856 | | |
| 1972-73 . | | | n.a. | 14,539 | 5,857 | 4,445 | 14,182 | + 357 | | |
| 1973-74 . | | | n.a. | 16,377 | 7,036 | 5.683 | 15,110 | + 1,266 | | |
| 1974–75 . | | | n.a. | 19,089 | 9,442 | 6,590 | 19,667 | – 578 | | |
| Sewerage | | | | | | | | | | |
| 1970-71 . | | | 77,802 | 10,524 | 1,961 | 3,277 | 9,261 | + 1,263 | | |
| 1971-72 . | | | 77,876 | 11,171 | 2,531 | 3,620 | 6,979 | + 4.192 | | |
| 1972-73 . | | | n.a. | 13,346 | 2,851 | 4,108 | 13,052 | + 294 | | |
| 1973-74 . | | · | n.a. | 14,172 | 3,679 | 4,225 | 10,352 | + 3.820 | | |
| 1974–75 . | | | n.a. | 15,817 | 4,430 | 4,525 | 12,397 | + 3,420 | | |

(a) Total, including other expenditure.

Other areas. At 30 June 1974, of the 130 local authorities in addition to the City of Brisbane, 127 had water supply schemes and 89 operated sewerage systems. The receipts (other than loan and loan subsidy) of water undertakings controlled by these authorities amounted to \$20,365,000 in 1973-74. Expenditure amounted to \$20,361,000, included \$7,342,000 for debt charges. In addition, expenditure from loans and loan subsidy amounted to \$14,444,000. Finances of sewerage undertakings are incorporated with cleansing and sanitary services and are not available separately.

South Australia

The water supply and sewerage systems in this State were constructed mainly, and are maintained by the Engineering and Water Supply Department, under the control of the Minister of Works. Works controlled by the Department are the Adelaide, Barossa, Beetaloo, Bundaleer, Moorook, Tod River, Warren, Yorke Peninsula, and other country water districts systems, the Morgan-Whyalla water supply system, the metropolitan and country sewerage systems, the Metropolitan Flood Waters Scheme, and works on the River Murray constructed under the River Murray Waters Agreement. Several water supply schemes on the Murray River are administered by the Department of Lands in conjunction with irrigation works, and supplies to Woomera and Leigh Creek coalfield are controlled by the operating authorities.

Adelaide waterworks. At 30 June 1974 the Adelaide waterworks supplied districts covering 740 square kilometres of the metropolis and extending to near country areas. The capacity of the principal reservoirs was 189,000 megalitres and there were 6,651 kilometres of metropolitan mains. The Mannum-Adelaide pipeline conveys water from the River Murray. Water is delivered to a terminal storage near Adelaide and thence to the metropolitan distribution system or alternatively it can be delivered into metropolitan reservoirs on the River Torrens. The pipeline also supplies various country areas along and extending from its route. A second River Murray pipeline extending from Murray Bridge to the River Onkaparinga is also used to supplement storage.

ADELAIDE WATERWORKS: FINANCES (\$'000)

| | | | Invested | | Expenditure | | | |
|---------|--------------------------------------|---|----------------------------|----------|-------------|--------------------------|--------|---------|
| Year | capital at 30 June (a) Revenue | | Working expenses (b) | Interest | Total | Surplus(+) or deficis(-) | | |
| 1970-71 | | • | 1 33,509 | 14,513 | 6,787 | 5,887 | 12,674 | + 1.839 |
| 1971-72 | | | 143,880 | 15,772 | 7,130 | 6,414 | 13,544 | + 2,229 |
| 1972-73 | | | 145,156 | 18,417 | 8,606 | 6,750 | 15,356 | + 3.061 |
| 1973-74 | | | 153,239 | 20,699 | 10,120 | 7,543 | 17,664 | + 3,035 |
| 1974-75 | | | 159,853 | 22,332 | 13,117 | 8,996 | 22,114 | + 218 |

(a) After deduction of depreciation.

(b) Includes debt redemption.

Adelaide metropolitan sewerage system. The Adelaide metropolitan sewerage system, comprising the Adelaide, Glenelg, Port Adelaide, Christies Beach, and Salisbury-Elizabeth areas of 642 square kilometres in all, includes treatment works at Glenelg, Port Adelaide, Bolivar, and Christies Beach. Financial and other particulars for 1970-71 to 1974-75 are shown hereunder.

ADELAIDE METROPOLITAN SEWERAGE: SUMMARY

| | | | | | | Expenditure | ? | | | | |
|---------|---|------------------------|-------------------------------|--|--------|----------------------------|----------|--------|---------|--|--|
| Year | · | Length of sewers | Number of con- nections | Invested capital at 30 June(a) Revenue | | Working expenses (b) | Interest | Total | Surplus | | |
| | | km | ·- | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$.000 | | |
| 1970-71 | | 3,779 | 254,816 | 90,169 | 10,477 | 4,270 | 3,910 | 8,180 | 2,297 | | |
| 1971-72 | | 3,888 | 265,755 | 96.431 | 11,977 | 4,909 | 4,500 | 9,409 | 2,568 | | |
| 1972-73 | | 4,060 | 276,652 | 92,642 | 12,964 | 5,400 | 4,946 | 10,346 | 2,618 | | |
| 1973-74 | | 4,193 | 288,166 | 96,467 | 14,325 | 6,950 | 5,328 | 12,278 | 2,047 | | |
| 1974-75 | | 4,400 | 297,300 | 101,020 | 16,137 | 9,751 | 5,963 | 15,714 | 423 | | |

(a) After deduction of depreciation.

(b) Includes debt redemption.

Country sewerage schemes. Sewerage schemes are operating at Port Lincoln, Naracoorte, Mount Gambier, Millicent; Lobethal, Gumeracha, Myponga, Mannum, Stirling, Whyalla, Angaston and Murray Bridge. At Port Lincoln and Mount Gambier the sewers discharge to ocean outfalls and treatment works are used on the other systems. There are 604 kilometres of sewers and 23,871 connections in the country systems. Sewerage schemes for Port Pirie, Victor Harbor and Gawler are under construction and operating in part.

Country water supply. Water districts systems at 30 June 1974 comprised an area of 6,830,000 hectares. Supply came from reservoirs having a capacity of 36,000 megalitres, from minor reservoirs, from the River Murray, and from underground sources. Apart from local supplies, water from the River Murray is distributed over wide areas through Mannum-Adelaide, Morgan-Whyalla, Swan Reach-Stockwell and Tailem Bend-Keith pipelines and branches of these pipelines. The principal areas of underground supplies are in the south-east of the State, where water from the Murray basin can be had at moderate depths or from lakes, and from sand beds on Eyre Peninsula. In the year 1973-74 supplies made to Mount Gambier, Naracoorte and other towns in the south-east amounted to 8,411 megalitres, and the Uley-Wanilla, Lincoln and Polda Basins contributed 4,445 megalitres to the Tod River Water District.

Morgan-Whyalla water supply scheme. This scheme, which has 359 kilometres of main via Port Augusta and 283 kilometres of main via the Spencer Gulf undersea crossing, was officially opened on 31 March 1944, the capital invested to 30 June 1975 being \$31,386,000. Apart from supplying Whyalla, the mains have been used to allow expansion of reservoir supplies in the northern agricultural area of the State, and to meet new demands caused by industrial growth at Whyalla, Port Pirie and Port Augusta. During 1973-74 water used from the scheme amounted to 21,000 megalitres.

Western Australia

The principal water supply systems of Western Australia are under the control of two State authorities, the Metropolitan Water Supply, Sewerage and Drainage Board and the Public Works Department. The area which constitutes the territory administered by the Board encompasses approximately 4,144 square kilometres and extends from Perth southward to Rockingham and Serpentine, northward to Wanneroo, and eastward to Sawyers Valley and Kalamunda. The Public Works Department controls the Goldfields and Agricultural Water Supply and the Great Southern Towns Water Supply as well as 125 local water supplies (see also Chapter 23, Water Resources). Four independent town schemes are controlled by local Water Boards in country areas, and individual water supplies serve railways, timber mill towns, isolated mines, pastoral properties, stock routes, and agricultural areas, mainly from dams, tanks, wells and bores.

Metropolitan water supply, sewerage and drainage. The main sources of the metropolitan water supply are several reservoirs on the Darling Escarpment, the total capacity of these being 493,397 megalitres. The largest of these are the South Dandalup Reservoir, the Serpentine Reservoir and the Canning Reservoir which have capacities of 208,210 megalitres, 184,882 megalitres and 93,400 megalitres respectively. Water from storage on the Darling Escarpment is conveyed to service reservoirs with a combined capacity of 1,675 megalitres which serve the territory administered by the Board. Underground water is used to augment hills supplies. The amount used during 1974–75 was 21,157 megalitres, which was 11.7 per cent of the total consumption from all sources.

The following table shows particulars of the metropolitan water supply services for 1970-71 to 1974-75.

| METROPOLITAN WATER SUPP | LY. WESTERN | AUSTRALIA: | SERVICES |
|-------------------------|-------------|------------|----------|
|-------------------------|-------------|------------|----------|

| Number of meters | Length of mains | Average daily consumption per service (b) | Total consumption for year | Average daily consumption | Number of services (a) | | Year |
|------------------------|-----------------------|---|----------------------------------|---------------------------------|---------------------------------|------|---------|
| | kilometres | litres | megalitres | megalitres | | | |
| 178,857 | 5,641 | 2,055 | 148,080 | 405.5 | 200,597 | | 1970–71 |
| 187,313 | 5,934 | 2,068 | 155,017 | 424.6 | 210,465 | | 1971-72 |
| 196,220 | 6,171 | 1,922 | 156,757 | 429.5 | 223,393 | | 1972-73 |
| 206,527 | 6,250 | 2,036 | 172,394 | 472.3 | 231,938 | | 1973-74 |
| 215,555 | 6,464 | 2,074 | 181,228 | 496.5 | 239,426 | | 1974–75 |

⁽a) Figures relate to 30 June.

Some particulars of the metropolitan sewerage and main drainage services for 1970-71 to 1974-75 are shown in the following table.

METROPOLITAN SEWERAGE AND MAIN DRAINAGE WESTERN AUSTRALIA: SERVICES

| Year | | Services | Length of sewers | Length of main drains | | |
|---------|--|----------|------------------|--------------------------|------------|------------|
| | | | | | kilometres | kilometres |
| 1970-71 | | | | 81,940 | 1,828 | 253 |
| 1971-72 | | | | 87.318 | 1,991 | 253 |
| 1972-73 | | | | 93,402 | 2,158 | 260 |
| 1973-74 | | | | 99,698 | 2,432 | 277 |
| 1974-75 | | | | 111,300 | 2,635 | 283 |

⁽b) Calculated from averages for the year.

Metropolitan Water Supply, Sewerage and Drainage Board—finances. The following table shows particulars of the finances of the Western Australian Metropolitan Water Supply, Sewerage and Drainage Board.

METROPOLITAN WATER SUPPLY, SEWERAGE AND DRAINAGE BOARD WESTERN AUSTRALIA: FINANCES

(\$'000)

| | | ure | Expendit | | | | | |
|--|------|--------------------------------|---------------------|---------|-------------------------------|---|---|------------------|
| Surplus (+) oi Total Deficit (-) | To | Depreciation and other charges | Working expenses | Revenue | Capital cost to 30 June | | • | Service and year |
| | | | | | | | | Water supply- |
| 7,850 + 521 | 7.8 | 4,460 | 3,389 | 8,371 | 92,284 | | | 1970-71 . |
| 8,884 +2,073 | 8.8 | 4,931 | 3,953 | 10,956 | 101,509 | | | 1971-72 . |
| 10,293 + 1,189 | 10.3 | 5,581 | 4,712 | 11,482 | 114,971 | | | 1972-73 . |
| 12,627 - 683 | | 6,489 | 6,137 | 11,943 | 131,062 | | | 1973-74 . |
| 16,500 + 738 | | 8,099 | 8,402 | 17,238 | 148,932 | | | 1974–75 . |
| | | | | | | | | Sewerage— |
| 4,470 + 38 | 4.4 | 2,214 | 2,255 | 4,508 | 48,500 | | | 1970-71 . |
| 5.267 + 831 | 5.2 | 2,573 | 2,693 | 6.097 | 58,975 | | | 1971-72 . |
| 6.375 + 211 | 6.3 | 3,117 | 3,258 | 6,586 | 76,506 | | | 1972-73 . |
| 8,777 - 1,624 | | 3,924 | 4,854 | 7,153 | 96,363 | | | 1973-74 |
| 12,585 -2,024 | | 6,011 | 6,575 | 10,561 | 127,091 | | • | 1974–75 . |
| | | | | | | | _ | Main drainage- |
| 915 +228 | 9 | 467 | 448 | 1.144 | 10,699 | | | 1970-71 |
| 995 + 362 | • | 503 | 492 | 1,357 | 11,259 | | | 1971-72 |
| 1,139 +300 | 1. | 541 | 598 | 1,444 | 11,694 | | | 1972-73 . |
| 1,392 +128 | | 605 | 787 | 1,520 | 12,356 | · | | 1973-74 . |
| 1,741 -4 | | 716 | 1,025 | 1,737 | 13,517 | | | 1974-75 . |

Country water supplies. Information relating to country water supplies is included in Chapter 23, Water Resources.

Tasmania

Waterworks. In Tasmania, water supply was once the exclusive responsibility of the city and municipal councils. Two statutory authorities now operate bulk supply schemes, piping water for distribution by local government authorities in the Hobart and Launceston areas, and directly to certain industrial consumers.

The over-all control of water supply in the greater Hobart area, comprising the municipalities of Hobart, Clarence, Glenorchy, and Kingsborough, is vested in the Metropolitan Water Board, but the municipalities retain primary responsibility for reticulation. The Board maintains pumping stations at Bryn Estyn and Lawitta on the Derwent River near New Norfolk to supplement four water catchment and storage areas near Hobart. Total maximum capacity of the system at 30 June 1975 was 209 megalitres per day. The following table shows particulars of the finances of the Metropolitan Water Board.

METROPOLITAN WATER BOARD—TASMANIA: FINANCES (\$'000)

| | | re | Expenditu | | Civ-1 | | | | |
|----------------------------------|-------|---------------------------------|---------------------|---------|---|--|---------|--|--|
| Surplus (+) or deficit (-) | Total | Interest and depreciation | Working expenses | Revenue | Capital expenditure to 30 June | | Year | | |
| +109 | 2,490 | 1,301 | 1,189 | 2,599 | 13,119 | | 1970–71 | | |
| -242 | 2,862 | 1,484 | 1,378 | 2,620 | 13,714 | | 1971-72 | | |
| -181 | 3,216 | 1,600 | 1,616 | 3,035 | 13,908 | | 1972-73 | | |
| +216 | 3,334 | 1,669 | 1,665 | 3,550 | 14,255 | | 1973-74 | | |
| -39 | 3,960 | 1,863 | 2,096 | 3,921 | 14,801 | | 1974-75 | | |

The other statutory authority, the Rivers and Water Supply Commission, operates two schemes in the Launceston region. The North Esk Regional Water Supply Scheme supplies water to the municipalities of St Leonards, George Town, Lilydale and part of Westbury, and also supplies water directly to some industrial users situated near the Tamar River. The second scheme in this region, the West Tamar Water Supply, provides water to the Municipality of Beaconsfield. In addition to the above schemes, the Rivers and Water Supply Commission also operates an industrial water supply scheme on the east coast of Tasmania near Triabunna.

At 30 June 1975 water was supplied to approximately 110,540 properties throughout the State. Sewerage. At 30 June 1975 the number of tenements connected to sewerage services was about 93,044. Approximately 65 per cent of sewerage discharge is subject to treatment.

Northern Territory

Information relating to water supply in the Northern Territory may be found in Chapter 23, Water Resources.

Australian Capital Territory

Information relating to water supply and sewerage in the Australian Capital Territory may be found in Chapter 30, Territories of Australia.

Harbour boards and trusts

The number and net tonnage of vessels which entered the major ports in each State during the years 1973-74 and 1974-75 are shown in Chapter 12, Transport and Communication (see page 375). Particulars of overseas and interstate cargo discharged and shipped are shown on pages 375-9 of the same chapter.

New South Wales

The Maritime Services Board of New South Wales exercises general control over intra-state shipping, including the survey and certification of vessels, the licensing of harbour craft and the examination and issue of certificates to officers. It is responsible for the provision of pilotage services, lights, beacons, buoys and other port facilities, imposes and collects rates and charges on goods and vessels, and is vested with the general control and management of the navigable waters and ports within the State. At the ports of Sydney, Newcastle and Botany Bay the Board is also responsible for the provision of adequate wharfage and channels and carries out all construction, maintenance and dredging work. Since 1 February 1936 the State enactments on port charges, including the Navigation Act of New South Wales, the Harbour and Tonnage Rates Act and the Sydney Harbour Trust Act, have been administered by the Maritime Services Board.

The activities of the Maritime Services Board are financed through the Consolidated Revenue Fund and the Maritime Services Fund. Revenue and expenditure in connection with pilotage and navigation services and the administration and collection of fees at Port Kembla and the other smaller ports form part of the Consolidated Revenue Fund of the State Government (revenue and expenditure for the year 1974–75 was \$12,137,000 and \$5,438,000 respectively). The Maritime Services Fund is credited with all revenue earned at the Ports of Sydney, Newcastle, and Botany Bay with the exception of that derived from pilotage and navigation services. All expenditure on the administration and maintenance of these ports is met by this Fund.

Financial details relating to the Maritime Services Fund are shown in the following table.

MARITIME SERVICES BOARD FUND: FINANCES OF THE PORTS OF SYDNEY NEWCASTLE AND BOTANY BAY
(\$'000)

| | | | Revenue | | Expenditur | e | | |
|---------|--|----------------------------------|-------------------------------------|--------|----------------------------|---|--------|--|
| Year | | Capital debt at 30 June | Wharfage and tonnage rates | Total | Working expenses (a) | Interest debt redemption exchange, etc. | Total | Surplus (+) or deficit (-) |
| 1970-71 | | 87,073 | 17,217 | 30,297 | 25,025 | 5,502 | 30,527 | -229 |
| 1971-72 | | 93,620 | 19,406 | 30,371 | 23,857 | 6,459 | 30,316 | + 55 |
| 1972-73 | | 103,341 | 18,601 | 29,201 | 23,134 | 6,969 | 30,103 | 902 |
| 1973-74 | | 110,423 | 24,225 | 40,591 | 32,403 | 7,755 | 40,158 | +433 |
| 1974-75 | | 112,263 | 25,670 | 46,764 | 37,979 | 8,485 | 46,464 | +301 |

Port of Sydney. The wharves are situated close to the business centre of the city, about 6 or 8 kilometres from the Heads. At 30 June 1975 there were 5 dolphin berths, 1,020 metres long, and 73 effective commercial cargo berths, with a total length of 11,811 metres, controlled by the Board. Accommodation for harbour craft amounts to 685 metres, while the length of other berths, including oil and private wharves, totals 3,599 metres. Depth of water at wharves is up to 13 metres. Special facilities for the storage and handling of products such as wheat, wool, coal, etc., are provided. Docking facilities are available for large vessels at the Captain Cook Graving Dock. Container facilities became available in March 1969 with the opening of the eastern section of the Balmain container terminals to cellular container vessels.

Port of Newcastle. Shipping at Newcastle is concerned primarily with the coal, iron and steel and other heavy industries located in the district. However, facilities are available for the shipment of wool, wheat and frozen meat, and a wharf is available for timber.

Botany Bay. The port is primarily a discharging centre for the oil refinery at Kurnell, near Sydney, and one jetty with a tanker berth each side of the jetty is available as well as three tanker offshore moorings with submarine pipelines.

Port Kembla is the port of the southern coalfields and for the major industrial areas in and about Wollongong.

Other ports. In addition to the ports of Sydney, Newcastle, Port Kembla, and Botany Bay, the Board controls 29 outports along the coastline of 1,900 kilometres. The shipping trade of these outports is relatively small.

Victoria

The Port of Melbourne comes under the control of the Melbourne Harbor Trust Commissioners, a financially independent statutory organisation, with a full-time chairman and five part-time commissioners

The advanced methods of cargo handling which have developed with the advent of container, unit load, and roll-on roll-off vessels now entering the Port, have required, during the past 10 years, an expenditure in excess of \$60 million on capital works, and the current capital value of the Port of Melbourne is more than \$103 million. The Port covers an area of 27 square kilometres and provides 19 kilometres of berthage, with 92 commercial berths.

The main container complex, Swanson Dock, has four berths. Constructed at a cost of \$20 million, and taking some 6 years to complete, this 36 hectares complex handled 5.3 million tonnes of containerised cargo in 1975.

Currently, the Port of Melbourne has seven roll-on roll-off berths. The Webb Dock area. the Port's busiest roll-on roll-off complex, was originally a ferry berth (constructed in 1959) with a 2 hectares back-up area and has now been developed into a three berth complex, with a back-up area of 8 hectares. During 1975 Webb Dock handled 1.7 million tonnes of cargo.

The depth of water (low water ordinary spring tide) from the main channels to the principal wharves is 9.4 to 12.2 metres.

The following table shows particulars of the financial operations of the Trust.

MELBOURNE HARBOR TRUST: FINANCES (\$'000)

| | | | | Expenditu | re | | | |
|-------------------------------------|--|-------------------------------------|---------------------------|-------------------------------------|---------------------------------------|---|---------------------------|--------------------------------|
| | Gross loan | Revenue | | Opera- tion, adminis- | Interest, debt | General reserve, deprecia- tion, | | |
| Year | indebted- ness at 31 December | Wharfage and tonnage rates | Total | tration and mainten- ance | redemp- tion, exchange, etc. | renewals and insurance account | | Surplus(+) or Deficit(-) |
| 1971 . 1972 . | 44,059 45,644 | 10,038 | 16,263 15,478 | 9,719 | 3,152 | 3,158 | 16,029 15,942 | + 233 - 464 |
| 1973(a) . 1973-74 . 1974-75 . | (b) 48,051 51,060 | 9,398 5,485 12,702 14,124 | 8,777 21,338 24,156 | 10,569 5,368 11,451 14,461 | 2,506 1,298 2,820 3,141 | 2,867 1,930 3,818 4,648 | 8,596 18,089 22,250 | + 181 + 3,249 + 1,906 |

⁽a) From January 1973 the Trust's accounting period has been changed from a calendar year to a fiscal year. (b) Gross loan indebtedness at 30 June 1973 was \$46,201,000.

The *Port of Geelong* operated by the Geelong Harbor Trust, has available 17 effective berths, plus 2 berths at the Explosives Pier, Point Wilson, owned and operated by the Commonwealth Government. Two modern dry bulk berths (Lascelles Wharf Nos 1 and 2 berths) became fully operational in 1970 and a roll-on/roll-off berth at Corio Quay came into operation in January 1971.

Port of Portland. Development projects currently in hand will provide the port with facilities necessary to handle fully laden carriers up to 71,000 tonnes deadweight. In the first instance No. 1 berth and its approaches are being dredged from 11 metres to 12 metres low water and the bulk grain gallery extended to the outer limits of the K. S. Anderson wharf. Trade handled during 1974–75 amounted to 582,910 tonnes; operating revenue was \$1,094,131.

Oueensland

The ports of Queensland generally are administered by harbour boards with members representing the cities, towns and districts served by the ports. The ports of Bowen, Bundaberg, Cairns, Gladstone, Mackay, Rockhampton and Townsville are administered by Boards. Where no board is established, control is exercised by the Department of Harbours and Marine. The principal ports controlled by the Department are Brisbane, Hay Point, Lucinda, Maryborough, Mourilyan, Thursday Island and Weipa.

Brisbane, the busiest port in the State, is a river port of world standard dredged to a sufficient depth to accommodate most classes of vessels. The port, as well as providing wharves for containers, bulk grain fertiliser, freezer goods, petroleum products and general cargo, also provides shipbuilding and ship repair facilities including a dry dock accommodating vessels up to 71,000 tonnes deadweight. Two refineries, situated at the mouth of the river, can supply all ships' bunkering requirements.

The finances of Brisbane Harbour for the years 1970-71 to 1974-75 are shown in the following table.

| BRISBANE | HARBOUR: | FINANCES |
|----------|-----------------|----------|
| | (\$'000) | |

| | | T | Receipts | | Payments | |
|---------|------|------------------------------------|-----------------|-------|------------------------|-------|
| Year | | Loan indebtedness at 30 June | Harbour dues | Total | Working expenses(a) | Total |
| 1970–71 | | 5,576 | 2,685 | 3,788 | 3,556 | 4,004 |
| 1971-72 | | 6,352 | 3,001 | 4,349 | 3,308 | 3,789 |
| 1972-73 | | 6,653 | 3,010 | 5,586 | 3,700 | 4,228 |
| 197374 | | 6,866 | 3,265 | 6,451 | 4,308 | 4,862 |
| 1974-75 | | 7,482 | 3,490 | 7,940 | 5,380 | 5,989 |

(a) Excludes interest and redemption included in total.

South Australia

Department of Marine and Harbors. All South Australian harbours are controlled by the Department of Marine and Harbors, which is responsible to the Minister of Marine for the discharge of its duties and functions. The most important ports are the six deep-sea ports of Port Adelaide, Port Pirie, Wallaroo, Port Lincoln, Port Giles and Thevenard. In South Australia there are also six privately-owned and operated ports. The principal of these are Whyalla, Ardrossan, Rapid Bay, Proper Bay (Broken Hill Pty Co. Ltd), and Port Stanvac (Petroleum Refineries (Aust.) Pty Ltd). Maximum depths of water (low water) at the wharves of the main ports range from 8.2 metres at Port Pirie to 15.0 metres at Port Lincoln. The following table shows the finances of the Department for 1970–71 to 1974–75.

DEPARTMENT OF MARINE AND HARBORS, SOUTH AUSTRALIA: FINANCES (\$'000)

| | | | Loan | | Expenditure | | C 1 - (1 -) | |
|---------|--|--|----------------------------|---------|---------------------|----------|---------------|--------------------------------|
| Year | | | indebtedness at 30 June | Revenue | Working expenses | Interest | Total | Surplus(+) or Deficit(-) |
| 1970-71 | | | 55,081 | 7,628 | 5,056 | 2,431 | 7,487 | + 141 |
| 1971-72 | | | 57,824 | 7,611 | 5,346 | 2,796 | 8,142 | - 530 |
| 1972-73 | | | 62,655 | 7,324 | 5,453 | 3,028 | 8,481 | -1.157 |
| 1973-74 | | | 67,082 | 10,037 | 6,537 | 3,359 | 9.896 | +141 |
| 1974-75 | | | 73,013 | 10,889 | 8,425 | 3,828 | 12,253 | -1,365 |

Western Australia

The Port of Fremantle is operated and controlled by the Fremantle Port Authority. The port covers an extensive water area of some 466 square kilometres and comprises an inner and an outer harbour. The inner harbour includes 20 deep-water land-backed berths, providing more than 56,800 square metres of covered storage space and 3,994 metres of wharf berth accommodation. All inner harbour berths are dredged to a low water depth of 11 metres. The outer harbour includes 3 main anchorages, Gage Roads, Owen Anchorage and Cockburn Sound. Deep-water jetties, including the oil refinery jetty in Cockburn Sound, are available in the outer harbour. Ocean-going deep draft ships enter the Sound by means of a channel dredged through Success and Parmelia Banks to a low water depth of 14 metres and a bottom width of 152 metres. In the outer harbour there are 3 tanker berths each with a low water depth of 13 metres at the Kwinana oil refinery, 2 berths at the nearby steelworks jetties with a low water depth of 12 metres, 2 berths at the alumina works jetty with a low water depth of 12 metres and 1 berth at the bulk cargo jetty with a low water depth of 13 metres. There is also a special berth for the handling of explosives. Total effective berth accommodation in the outer harbour is 1,862 metres. Gross earnings amounted to \$15,509,000 for 1974–75, working expenses to \$11,784,000, interest charges on loan capital to \$1,510,000 and loan indebtedness totalled \$25,394,000.

The Ports of Albany, Bunbury, Esperance, Geraldton and Port Hedland are controlled by their respective Port Authorities.

Other ports. The following ports are controlled by the State Government Harbour and Light Department: Broome, Carnarvon, Derby, Onslow, Port Walcott and Wyndham. Ports privately controlled comprise Yampi and Dampier, both operated by iron ore mining companies, and Exmouth, the port serving the communications installation at North West Cape. A private buoyed sea terminal is operated at Barrow Island for the shipment of crude oil, and private interests ship salt at Cape Cuvier, and salt and gypsum from Useless Loop in Shark Bay.

Tasmania

Port services in Tasmania are under the control of seven port authorities: the Marine Boards of Hobart, Devonport, Burnie, Circular Head (Stanley), King Island (Currie), Flinders Island (Whitemark) and the Port of Launceston Authority. Port facilities previously under the control of the Smithton Harbour Trust were vested in the Circular Head Marine Board from July 1973. The ports at Hobart, Launceston (Bell Bay), Burnie and Devonport are general cargo terminals for overseas and interstate shipping. Other ports catering primarily for overseas export of specialised cargoes include Port Latta (iron ore pellets), Triabunna (wood chips), and Port Huon (fruit).

PUBLIC FINANCE

AUTHORITIES CONTROLLING PORTS, TASMANIA: FINANCES 1970-71 TO 1974-75

(\$'000)

| | | Receipts | Expenditur (revenue ac | | | | |
|-------------------|------------------------------------|---|---------------------------|-----------------|--------------|------------------------|---------------------|
| Authority | Loan indebtedness at 30 June | Loan (revenue Works indebtedness account) and | | Loan charges | Total (a) | New loans raised | Loan expenditure |
| Hobart | 9,721 | 3,062 | 1,175 | 784 | 2,883 | 2,014 | 2,921 |
| Launceston | 9,412 | 4,619 | 2,302 | 1,012 | 4,215 | 594 | 610 |
| Devonport | 7,589 | 2,051 | 789 | 799 | 1,838 | 500 | 773 |
| Burnie | 12,083 | 2,376 | 660 | 1,020 | 2,117 | 16 | 321 |
| Circular Head . | 1,046 | 154 | 32 | 98 | 150 | 90 | 60 |
| King Island . | 98 | 90 | 36 | 12 | 85 | | 7 |
| Flinders Island . | 184 | 50 | 37 | 15 | 57 | •• | 1 |
| Total 1974-75 | 40,133 | 12,402 | 5,031 | 3,740 | 11,345 | 3,214 | 4,693 |
| 1973-74 | 38,656 | 10,159 | 3,785 | 3,362 | 9,310 | 3,067 | 3,150 |
| 1972-73 | 36,973 | 9,007 | 2,761 | 3,026 | 7,170 | 3,457 | 4,805 |
| 1971-72 | 34,648 | 7,752 | 2,928 | 2,844 | 7,194 | 4,590 | 5,261 |
| 1970-71 | 31,057 | 7,133 | 2,618 | 2,535 | 6,366 | 4,471 | 5,042 |

⁽a) Includes expenditure not specified in component items.

CHAPTER 19

EDUCATION

Introduction

Year books prior to 1974 have given a detailed factual and historical account of education in Australia. In recent years there have been significant changes, particularly in the Commonwealth Government's programs of financial support for education. Other developments of importance are still in progress. In this issue, the descriptive section on education is confined to a general account of the major new developments that are taking place. For a comprehensive picture of the present scene, this account should be read in conjunction with the detailed material in the 1973 Year Book No. 59. This chapter does, however, include a full set of statistical tables giving the usual coverage of basic education statistics.

State and Commonwealth Government responsibilities in education

Briefly, the respective governmental responsibilities for education in Australia are as follows. The six State governments are responsible for providing education services for their citizens. They administer systems of primary, secondary and technical education; tertiary institutions in the States (universities and colleges of advanced education) are established under Acts of the State parliaments; and the conditions under which private educational institutions in the States may operate are determined by the State authorities. Detailed information on the education system of the States may be found in the respective State year books.

The Commonwealth Government is responsible for the provision of education facilities in the Australian Capital Territory, the Northern Territory, Norfolk Island, Christmas Island and the Cocos (Keeling) Islands (see Chapter 30 of this Year Book for details), for Australia's participation in education activities at the international level, and for migrant education. Also, in recent years, the Commonwealth Government has provided the State governments with substantial financial assistance specifically for schools, universities, colleges of advanced education, and technical colleges. In addition, the Commonwealth Government has administered Australia-wide schemes of financial assistance for students for many years.

Developments in Primary and Secondary Education

Government assistance to the States

Since 1945 education authorities in Australia have been faced with the task of rapidly providing more schools, more teachers and better facilities for a rapidly growing school population. In recent years the Commonwealth Government has made substantial financial grants to the States specifically for expenditure on government and non-government schools.

In December 1972 the Commonwealth Government appointed the Interim Committee for the Schools Commission (the Karmel Committee) to assess the financial needs of primary and secondary schools throughout Australia. In May 1973 this Committee made its recommendations on the needs of schools for assistance in the two years 1974 and 1975. These recommendations were substantially accepted by the Commonwealth Government. Expenditure in 1976 has been calculated to ensure that the level and standard of activities which were reached by the end of 1975 are maintained. There has however been a small reduction in capital expenditure.

The Schools Commission was established in December 1973 to administer the programs developed by the Karmel Committee. The Commission is a small expert body responsible to the Commonwealth Minister for Education and serviced by its own professional and secretarial staff. It is working closely with State, non-government, and other national education authorities: to develop a national perspective on primary and secondary education; to ensure that the needs of children throughout Australia are identified and met; to ensure that national resources are directed towards meeting educational priorities on a needs basis; and to encourage innovations in education.

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The broad programs of financial assistance provided by the Commonwealth Government through the Commission are intended to supplement the resources supplied by State and non-government school authorities for government and non-government schools. Decisions on the allocation and use of funds, including those provided by the Commission, are made by these authorities. The Commission operated seven programs of assistance in 1974 and 1975 but these have been reduced to six in 1976. They involve the provision of the following:

Recurrent grants related to the needs of schools.

Funds for general buildings.

Funds designated for the improvement of schools serving socio-economically disadvantaged areas. Supplementary building grants are being made and funds are also being provided for the running costs of compensatory education programs in these schools.

Funds for the improvement of special education for handicapped children. Grants are being provided for the building and replacement of special education facilities, and to augment the funds for the running costs of both government and non-government special schools and classes, and for special education teacher training and related teacher replacement.

Funds for experimental programs of an innovative nature at the school system level.

Funds for improvement of education services, particularly through the development of teachers and others involved in schools. This program, which began in 1976 is an extension of the previous Teacher Development Program. The funding of education centres for teachers, a school travel and exchange scheme and the training of Aborigines for educational leadership are parts of the program.

A seventh program, for school libraries, which operated in 1974 and 1975 to provide funds for the development of library-resource centres in schools and for basic courses in school librarianship for teachers was absorbed by several of the Commission's other programs in 1976.

The Australian Education Council

The State and Commonwealth Ministers for Education meet regularly as the Australian Education Council to consider matters of mutual interest. In recent years a number of significant developments have been initiated following agreements reached at these meetings: for example, in 1975 the Council commenced its second survey of education needs in Australia, and it established a working party to investigate the problems confronting young people in the transition from school to work. It has been instrumental in encouraging most of the recent projects involving inter-State co-operation in curriculum development (see School Curricula page 655). The Council is currently considering ways of increasing its effectiveness as a national education forum.

Decentralisation and community involvement

There is a trend in Australian education towards a degree of decentralisation in the administration of primary and secondary education. Most States have established regional administrations responsible to a greater or lesser extent for matters, such as staffing, which were formerly undertaken by the central administration, and for professional services to schools.

As well as this movement towards decentralisation of administration, greater responsibility is being given to representative bodies at the school and local community level for matters such as the educational objectives of the school and the development and upkeep of its physical, financial and other resources. There has also been a greater emphasis on the professional role of individual teachers and principals in developing the content and methods of education.

Public secondary examinations

There has been for a number of years a trend towards abolition of State-wide public examinations at the secondary level. The following is the position in each of the States and Territories in 1976.

New South Wales. The only external examination is for the Higher School Certificate at the end of the final year (Year 12). The School Certificate, which is based on teacher assessment and internal school examinations is awarded at the end of fourth year (Year 10) of secondary schooling.

Victoria. The only external examination is for the Higher School Certificate (Year 12). Schools issue a statement of achievement to students who do not sit for this examination or who leave school before Year 12.

Queensland. Those completing three years of secondary schooling (end of Grade 10) are issued with a Junior Certificate, based on teacher assessment and internal school examinations. The Senior Certificate, is awarded on the same basis at the end of the full secondary course (Grade 12).

South Australia. An achievement statement, based on school assessment, records progress in the first four years of secondary schooling (Years 8 to 11). An external certificate is issued at the end of Year 12 on the basis of the Matriculation Examination.

Western Australia. An Achievement Certificate, based on school assessment, records progress in the first three years of secondary schooling (Years 8 to 10). A Leaving Certificate is issued to students at the end of Year 12 based on School assessment and results in the Tertiary Admissions Examination which was introduced in 1975.

Tasmania. The School Certificate is awarded by individual schools at the end of four years of Secondary Schooling (Year 10). An external Higher School Certificate examination may be taken at the end of Year 11 or Year 12. Government Matriculation Colleges where students are exclusively concerned with Higher School Certificate subjects, are situated in Hobart, Launceston and Devonport and a college is planned for Burnie. Students in other districts attend ordinary high schools for the final two years of secondary education.

Northern Territory. Schools in the Northern Territory use the South Australian examination and certification system although some changes are expected to be made in the near future.

Australian Capital Territory. The New South Wales Higher School Certificate will be issued to A.C.T. students for the last time in 1976. The School Certificate (end Year 10) is being replaced in 1976 by formal reports issued by each school recording a student's achievements. Students in Year 11 in 1976 enrolled for the first time in Secondary Colleges receive profile reports at the end of Year 12 based on internal college assessment. Courses taught in the colleges are subject to accreditation by a centralised syllabus accreditation agency.

School curricula

Each State Education Department has a curriculum development unit. These units have worked in close co-operation with examination boards, but with reductions in the number of external examinations, the emphasis now is rather on ensuring that schools have available to them curriculum materials which they can use or adapt to meet the specific educational needs of their students.

This change in emphasis has been accentuated by the tendency in recent years for new schools (particularly primary schools) to be built in an open plan design. These open area schools are attempting to explore the possibilities of a more flexible learning situation by encouraging individual pupils to use a diverse range of educational materials suited to their particular needs under the guidance of a group of teachers working as a team.

An important development of recent years has been increasing co-operation between the States in the development of curricula. This co-operation has been fostered by Commonwealth Government involvement and financial support for national curriculum projects such as the Australian Science Education Project under which science learning materials for junior secondary classes have been developed.

A national Curriculum Development Centre has been established to foster curriculum and materials development from pre-school to post-secondary level. A major project being funded by the Curriculum Development Centre is the Social Education Materials Project. This project, covering a wide range of topics in social education, has development teams working in all States with the close collaboration of education authorities and teachers in social education.

The following two committees were established in 1974 to investigate on a national basis particular questions affecting curriculum.

- (1) A committee to inquire into the teaching of the languages of the major migrant groups in schools. The committee was established to investigate the extent to which the languages of the main migrant groups are taught in Australian schools and to recommend how such teaching can be extended. The committee included representatives of Commonwealth and State Education Departments, teachers, parents, non-government school authorities and migrant communities. It presented its report early in 1976.
- (2) A national committee on English teaching. The committee was established by the Commonwealth Minister for Education with the co-operation of the State education authorities. The committee is investigating ways in which written and spoken English may be taught more effectively in schools. Its activities are expected to be transferred to the Curriculum Development Centre in the second half of 1976.

Developments in the education of special groups

Aboriginal people

In those areas of Australia where Aboriginal people retain their own languages and communities, attempts are now being made to meet their educational needs as seen by the people themselves. Among recent innovations are a bilingual program in schools in Aboriginal communities and special methods planned to identify and cater for the educational needs of small 'outstation' groups, usually speakers of the one language, who have decided to establish themselves at some distance from larger communities.

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The teaching of Aboriginal children in their own languages was commenced in South Australia several years ago. The Commonwealth Government has established bilingual programs in nineteen Northern Territory schools and similar programs are being developed in schools in Queensland and Western Australia. These programs aim to ease the young child's entry to the school situation by establishing literacy in his own language and to recognise the place which the child's heritage of language and culture should occupy in his education. It is considered that the approach of establishing literacy in the child's own language followed by increasing use of English will lead to greater competence with the English language than has been the case for these children in the past.

The 'outstation' approach to the education of small and isolated Aboriginal communities, some of which do not remain permanently at one location, is an attempt to provide a modified education service for these people, having regard to the principle that services will be provided at the request of the community concerned and within the general terms which that community lays down. Use is being made of mobile schools and specially selected visiting advisory teachers for these communities. Aboriginal teachers have a central role in these programs.

Development of these new approaches to the education of Aboriginal people is still in the early stages, and they will be further developed and modified in the light of experience.

The Commonwealth Government has direct responsibility for the education of Aboriginal people living in the Northern Territory. Details of provisions made for these Aboriginal people are given in Chapter 30, The Territories of Australia.

Under the annual Appropriation Acts of the Commonwealth Parliament the Government provides grants to the States to assist the extension and improvement of educational facilities for Aborigines living in the States. The grants are administered by the Minister for Aboriginal Affairs. Additional pre-schools, homework centres, teaching materials, in-service courses for teachers, conferences and research activities, and the employment of special staff such as Aboriginal teaching assistants, remedial, resource and specialist teachers are some of the items resulting from this assistance.

Migrant education

For many years State and Commonwealth Government education authorities have co-operated in the provision of English language instruction for adult migrants and for migrant children in the schools. Until the end of 1975 the Commonwealth Government made grants to government and non-government school authorities in the States to reimburse the costs of teaching English to migrant children in special classes, in many cases in demountable classrooms provided specifically for this purpose. From the beginning of 1976 Commonwealth Government finance for the education of migrant children has been provided to the States as part of the Schools Commission's programs (see above), however, the policy and co-ordination role remains with the Commonwealth Department of Education. The intention is to encourage the States to use the funds more flexibly in accordance with local needs. Reimbursements of expenditure incurred in adult migrant education are made by the Commonwealth Minister for Education under the Immigration (Education) Act 1971.

The Commonwealth Department of Education, through its Language Teaching Branch, develops and produces teaching and learning materials and tests for use in Australian programs for teaching English as a second or foreign language. It provides professional advice on education aspects of language teaching programs and consults with education authorities and institutions on the implementation of new courses and programs.

Research is undertaken into materials, methods of teaching and general developments in the field of language teaching.

For further details on migrant education, see Chapter 7, Population.

Education of handicapped children

Information on the Special Education program administered by the Schools Commission has been provided earlier in this section.

Tertiary Education—Major Developments

Funding of tertiary institutions

Since 1 January 1974 the Commonwealth Government has had full financial responsibility for universities and colleges of advanced education throughout Australia. Prior to 1974 the State and the Commonwealth Governments shared the financial responsibility for these institutions in the States.

The Commonwealth Government is advised on its support for tertiary education by two statutory agencies, the Universities Commission (for universities), and the Commission on Advanced Education (for colleges of advanced education).

The Commonwealth Government decided that, from the beginning of 1974 when it assumed full financial responsibility for tertiary education, tuition fees should no longer be charged for courses which lead to formal qualifications at universities and colleges of advanced education. Tuition fees have been abolished for such courses at technical colleges also. Complementing the abolition of fees are arrangements for providing means-tested living allowances for students undertaking post-secondary courses (see page 658). All full-time students in approved courses at post-secondary institutions may receive these allowances subject to the means test requirements.

Teacher education

From July 1973, under the terms of an agreement between the Commonwealth and the States, the State teachers colleges which were administered by State Education Departments were brought under similar funding arrangements as those for colleges of advanced education. From then on these colleges moved towards assuming the characteristics of autonomous colleges of advanced education. Some are extending their range of courses and may develop as multi-faculty institutions. From January 1974 the Commonwealth Government assumed full financial responsibility for them along with the other colleges of advanced education.

Since January 1974, the Commonwealth Government has also provided assistance with the running costs of approved non-government teachers colleges training primary and secondary teachers.

Other current developments in tertiary education

The Government has agreed to provide special grants to universities to encourage the establishment of courses or Chairs of Community Practice in medical schools. To date, approval has been given for the development of programs in community practice in nine universities.

The Government is providing funds to establish Australia's first national post-graduate school management education, which will be located at the University of New South Wales.

New developments which will be supported over the next few years include:

the establishment of new medical schools at the University of Newcastle and the James Cook University of North Queensland;

the development of Deakin University at Geelong in Victoria.

Technical and Further Education

The term 'further education' has come into use in Australia, sometimes in association with 'technical education', to embrace the varied field of post-school educational provisions which do not come within the tertiary education area. 'Adult education' is a major component of the further education field.

Two States, South Australia and New South Wales, have Government Departments which are responsible only for technical and further education. In the Australian Capital Territory an interim Technical and Further Education Authority was established in September 1975. In all other States and the Northern Territory, technical and further education is administered by a division within the Department of Education.

In 1973 the Commonwealth Government established the Australian Committee on Technical and Further Education (ACOTAFE) to advise it on short-term needs in technical and further education with a view to the expansion of its financial assistance. The Committee was required to take into account promotion of the vigorous and well balanced development of technical and further education throughout Australia, overall manpower policy and national and local occupational requirements, and the needs and aspirations of individuals seeking to undertake technical and further education courses. After considering the Committee's recommendations the Government decided to introduce a program of capital and recurrent grants to the States for technical and further education from July 1974. The main elements of the program, which has been extended to continue until the end of 1976, are summarised below:

General building grants which may be used for the preparation of development plans for technical colleges and similar institutions, for the purchase of land and for the construction and equipping of buildings.

Grants to improve facilities and equipment at existing colleges.

Grants for construction of student residential accommodation.

General recurrent grants which the States may use as they see fit to supplement their own expenditure on technical and further education. These grants include a component to compensate the States for the loss of income from tuition fees. (Abolition of fees for post-secondary education was referred to earlier.)

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Recurrent grants for expenditure in a number of specified areas, including curriculum research and development, improvement of library services, the provision of external study facilities, student counselling services, and in-service teaching staff development.

In May 1975 the Commonwealth Government established, by Act of Parliament, the Technical and Further Education Commission to replace ACOTAFE. The Commission will advise the Commonwealth Government on assistance for technical and further education on a continuing basis,

Student assistance schemes

This section deals only with financial assistance to students available from the Commonwealth Government on a nation-wide basis. Other student assistance schemes and scholarships are administered by State authorities, educational institutions, and other agencies.

With the exception of post-graduate studies, all full-time students enrolled in approved courses may receive allowances to assist them in meeting living and study expenses, subject to a means test.

Secondary Education

The Secondary Allowances Scheme provides an unlimited number of grants on the basis referred to above for students enrolled in the final two years of secondary education.

A means-tested living allowance is available to full-time adult students who wish to complete the final year of secondary education.

Post-secondary Education

The Tertiary Education Assistance Scheme provides means-tested allowances for all full-time students who are enrolled in approved under-graduate courses in universities and colleges of advanced education, and in a wide range of approved courses in technical and further education institutions. Post-secondary students generally are benefiting from the abolition of tuition fees in 1974.

Post-graduate Education

A limited number of post-graduate awards are offered to students on the basis of relative academic merit. The awards provide a living allowance which is not subject to a means test. There are no fees for post-graduate study.

Early childhood services

In recent years the States and the Commonwealth Government have shown increasing concern for developing early childhood services (see the year books of the States for State developments in this field).

Under the Children's Services Program funds are appropriated to provide for capital and recurrent assistance for the establishment and operation of a range of care and associated services for children, including educational services for young children. Financial assistance is provided to community organisations, local government bodies and the States. The Commonwealth Government has established an Office of Child Care in the Department of Social Security. This Office advises on and administers the Children's Services Program, including projects and services administered by the former Interim Committee for the Children's Commission. This includes capital and recurrent grants under the provision of the Child Care Act 1972.

Educational training in the Defence Force

Detailed information on educational training in the Defence Force is contained in Chapter 4, Defence. Summary statistics of educational training provided by service establishments are shown on page 672.

EDUCATION STATISTICS

For the most recent statistics available on subjects dealt with in this chapter reference should be made to the series of mimeographed bulletins on social statistics issued by the Australian Bureau of Statistics. These bulletins comprise Schools (13.5), Teacher Education (13.12), Colleges of Advanced Education (13.10) and University Statistics Parts 1, 2, 3 (13.7, 13.8, 13.9). Financial aspects are dealt with in the annual bulletins Public Authority Finance—Federal Authorities (5.12), Public

Authority Finance—State and Local Authorities (5.43) and Expenditure on Education (5.44). The annual reports of the respective State education departments provide detailed statistical and other information about particular States. The Commonwealth Department of Education issues publications on aspects of primary, secondary and tertiary and other post-secondary education.

Summary tables

Statistics summarising the number of educational institutions in Australia and the number of students attending them in 1975 and earlier years are shown in the following tables. For details of technical and further education institutions and associated enrolments, see pages 663-5.

NUMBER OF EDUCATIONAL INSTITUTIONS, 1975

| | | | Schools | | | | | |
|--------------------------|-------|---|-----------------|-------------------|----------------------------------|-------------------|--|-----------------------------|
| | | | Govern- ment | Roman Catholic | Other non- govern- ment | Uni- versities | Colleges of Advanced Education (a) | Teachers Colleges (a) |
| New South Wales | | | 2,246 | 624 | 170 | 6 | 21 | 8 |
| Victoria | | | 2,161 | 467 | 111 | 3 | 31 | 5 |
| Queensland | | | 1,209 | 287 | 44 | 3 | 10 | 2 |
| South Australia . | | | 619 | 109 | 42 | 2 | 8 | |
| Western Australia | | | 629 | 156 | 35 | 2 | 6 | |
| Tasmania | | | 247 | 40 | 18 | 1 | 1 | |
| Northern Territory | | | 86 | 8 | 4 | | | |
| Australian Capital Terri | itory | • | 69 | 20 | 5 | 1 | 1 | 1 |
| Australia—1975 | | | 7,266 | 1,711 | 429 | 18 | 78 | 16 |
| 1974 | | | 7,295 | 1,731 | 426 | 17 | 78 | 17 |
| 1973 | | | 7,311 | 1,754 | 422 | 15 | 43 | 57 |
| 1972 | | | 7,362 | 1,768 | 422 | 15 | 45 | 59 |
| 1971 | | | 7,404 | 1,769 | 415 | 15 | 44 | 60 |

⁽a) All remaining government teachers colleges and all kindergarten teachers colleges were granted college of advanced education status from 1 July 1973.

NUMBER OF STUDENTS ENROLLED AT EDUCATIONAL INSTITUTIONS, 1975

| | Schools | | | | | |
|------------------------------|-----------------|-------------------|----------------------------------|-------------------|--|-----------------------------|
| | Govern- ment | Roman Catholic | Other non- govern- ment | Uni- versities | Colleges of Advanced Education (a) | Teachers Colleges (b) |
| New South Wales . | 788,943 | 185,201 | 33,667 | 58,666 | 26,227 | 2,281 |
| Victoria | 618,112 | 151,591 | 47,248 | 36,674 | 46,982 | 1,343 |
| Queensland | 327,574 | 76,100 | 15,048 | 20,047 | 13,473 | 121 |
| South Australia | 234,712 | 27,363 | 11,934 | 12,876 | 13,773 | |
| Western Australia . | 195,288 | 33,895 | 10,021 | 10,790 | 15,427 | |
| Tasmania | 79,283 | 9,831 | 4,265 | 3,399 | 2,435 | |
| Northern Territory . | 18,857 | 2,323 | 650 | | | |
| Australian Capital Territory | 35,210 | 9,895 | 2,269 | 5,886 | 4,240 | 98 |
| Australia—1975 . | 2,297,979 | 496,199 | 125,102 | 148,338 | 122,557 | 3,843 |
| 1974 . | 2,257,854 | 494,055 | 124,426 | 142,859 | 107,202 | (b)2,911 |
| 1973 . | 2,240,642 | 491,775 | 120,994 | 133,126 | 61,575 | (b)27,625 |
| 1972 . | 2,228,941 | 492,914 | 119,096 | 128,668 | 52,034 | (b)25,754 |
| 1971 . | 2,196,571 | 494,725 | 116,349 | 123,776 | 44,351 | (b)23,865 |

⁽a) All remaining government teachers colleges and all kindergarten teachers colleges were granted college of advanced education status from 1 July 1973. (b) Excludes students enrolled at both a teachers college and another type of institution; they are included in the statistics for the other institution at which they are enrolled.

Schools

Statistics of government and non-government schools, teachers and students in 1975 and earlier years are shown in the following tables. The number of schools and teachers refer to the position at dates which vary from State to State and in some instances from year to year. Institutions providing only pre-school education, senior technical and agricultural colleges, evening schools, continuation classes, and institutions such as business colleges and coaching establishments are not included in these statistics. Student statistics in the tables which follow refer to the number of students enrolled at the schools included in this collection at the August schools census date. For more detailed statistical information, see the annual bulletin Schools (13.5).

NUMBERS OF SCHOOLS, TEACHERS AND STUDENTS, BY CATEGORY OF SCHOOL STATES AND TERRITORIES, 1975

| | | Non-gov | ernment scho | ools | | | | | |
|---|---|--|---|--|---|---|--------------------------------------|---|--|
| | | Denomi | national | | | | | | |
| d | Sovernment schools | Church of England | Methodist | Presby- terian | Roman Catholic | Other | Undenom- inational | Total | Al schools |
| | | | | SCHOOL | s | | | | |
| New South Wales. Victoria Queensland. South Australia. Western Australia Tasmania. | 2,246 2,161 1,209 619 629 247 | 32 31 13 8 10 4 | 6 4 (a) 3 3 | 10 10 2 2 2 2 | 624 467 287 109 156 40 | 27 31 20 22 9 | 95 35 9 7 11 4 | 794 578 331 151 191 58 | 3,040 2,739 1,540 770 820 303 |
| Northern Territory Australian Capital Territory | 86 69 | | 2 | | 8 20 | 2 | | 12 25 | 98 92 |
| Australia—1975 . 1974 . | 7,266 7,295 | 101 102 | 19 19 | 28 30 | 1,711 1,731 | 119 121 | 162 154 | 2,140 2,157 | 9,400 9,452 |
| | | | TE | ACHERS | S(b) | | | | |
| New South Wales. Victoria Queensland South Australia Western Australia Tasmania Northern Territory | 40,692 35,264 17,183 12,957 9,824 4,251 1,096 | 925 1,331 356 228 289 116 | 217 283 (a) 145 136 25 | 357 598 40 102 107 46 | 7,808 6,301 3,061 1,148 1,433 424 97 | 188 502 240 133 55 94 | 678 481 254 142 49 12 | 10,172 9,497 3,951 1,899 2,069 717 123 | 50,864 44,76 21,134 14,85 11,89 4,96 1,219 |
| Australian Capital Territory | 2,174 | 124 | | | 423 | 2 | 14 | 563 | 2,73 |
| Australia—1975 . 1974 . | 123,441 114,360 | 3,370 3,318 | 822 826 | 1,250 1,278 | 20,695 19,871 | 1,224 1,195 | 1,630 1,526 | 28,990 28,010 | 152,43 142,37 |
| | | S | rudents | (\$СНОС | L CENSU | JS) | | | |
| New South Wales. Victoria Queensland South Australia Western Australia Tasmania Northern Territory Australian Capital Territory | 788,943 618,112 327,574 234,712 195,288 79,283 18,857 35,210 | 13,956 19,327 5,783 3,754 4,253 1,713 | 3,135 4,347 (a) 2,220 2,181 366 447 | 5,473 9,074 509 1,502 1,532 577 | 185,201 151,591 76,100 27,363 33,895 9,831 2,323 9,895 | 3,045 7,941 4,352 2,719 1,145 1,366 203 | | 218,868 198,839 91,148 39,297 43,916 14,096 2,973 | 1,007,81 816,95 418,72 274,00 239,20 93,37 21,83 |
| Australia—1975 1974 | 2,297,979 2,257,845 | 50,763 50,571 | 12,696 12,506 | 18,667 19,196 | 496,199 494,055 | 20,821 20,815 | 22,155 21,338 | 621,301 618,481 | 2,919,28 2,876,32 |

⁽a) There are no Methodist schools in Queensland. Schools conducted by the Presbyterian and Methodist Schools Association are included with 'other'. (b) Full-time teachers plus part-time teachers are expressed in equivalent full-time units and rounded to whole numbers. Teachers in training are excluded.

A.C.T.

GRADE 4

GRADE 3

GRADE 2

GRADE 1

(a) KINDER-GARTEN

GRADE 4

GRADE 3

GRADE 2

GRADE 1

GRADES IN GOVERNMENT SCHOOLS, STATES AND TERRITORIES, 1975

5.A.

YEAR 5

YEAR 4

YEAR 3

YEAR 2

YEAR 1

RECEPTION

Secondar Certificate (Year 12) YEAR 6 18 YEAR 12 FORM VI GRADE 12 YEAR 12 17 YEAR 12 FORM V YEAR 5 YEAR 11 YEAR 11 75 YEAR 11 GRADE 11 School Certificate FORM IV YEAR 4 Certificate YEAR 10 YEAR 10 GRADE 10 School Certificat (Pretiminary) YEAR 3 YEAR 10 FORM 411 YEAR 9 GRADE 9 YEAR 9 YEAR 9 FORM II YEAR 2 YEAR 8 YEAR 8 GRADE 8 8 RASY YEAR 1 FORM 1 GRADE 7 GRADE 7 YEAR 7 YEAR 7 GRADE 6 GRADE 6 GRADE 6 GRADE 6 YEAR 6 YEAR 6 GRADE 5 GRADE 5 GRADE 5 YEAR 5 GRADE 5

GRADE 4

GRADE 3

GRADE 2

GRADE 1

YEAR 4

YEAR 3

YEAR 2

YEAR 1

PRE-SCHOOL

PREP. ARATORY KINDER. GARTEN

N.S.W.

FORM VI

FORM V

FORM IV

FORM III

FORM II

FORM!

GRADE 6

GRADE 5

GRADE 4

GRADE 3

(#) GRADE 2

GRADE 1

KINDER-GARTEN

AUGUST CENSUS DATE

II) AVERAGE AGE OF STUDENTS IN EACH GRADE AT THE

VIC.

Higher School Certificate

YEAR 12

YEAR 11

YEAR 10

YEAR 9

YEAR B

YEAR 7

YEAR 6

YEAR 5

YEAR 4

YEAR 3

YEAR 2

YEAR 1

PREP. ARATORY

OLD

GRADE 4

GRADE 3

GRADE 2

GRADE 1

PRE-SCHOOL

Promony Grades 🔲 dary Grades 🔲

GOVERNMENT AND NON-GOVERNMENT SCHOOLS: STUDENTS, BY AGE AND SEX AUSTRALIA, 1975

(School census enrolment)

| Age last birthday | | | Govern | ment schools | 7 | Non-gove | ernment scho | ools | All schools | | |
|-------------------|--------|---------------|------------------------|------------------------|------------------------|--------------------|--------------------|--------------------|------------------------|------------------------|------------------------|
| year | | irinaay | Males | Females | Persons | Males | Females | Persons | Males | Females | Persons |
| Unde | er 6 | | 90,909 | 86,415 | 177,324 | 21,068 | 21,286 | 42,354 | 111,977 | 107,701 | 219,678 |
| 6 | | | 106,670 | 101,193 | 207,863 | 23,428 | 23,759 | 47,187 | 130,098 | 124,952 | 255,050 |
| 6 7 8 9 | | | 102,591 | 96,463 | 199,054 | 23,543 | 23,670 | 47,213 | 126,134 | 120,133 | 246,267 |
| 8 | | | 100,279 | 94,204 | 194,483 | 23,559 | 24,020 | 47,579 | 123,838 | 118,224 | 242,062 |
| 9 | | | 98,490 | 92,591 | 191,081 | 24,219 | 24,335 | 48,554 | 122,709 | 116,926 | 239,635 |
| 10 | | | 99,696 | 93,496 | 193,192 | 25,255 | 25,370 | 50,625 | 124,951 | 118,866 | 243,817 |
| 11 | | | 103,904 | 96,764 | 200,668 | 26,379 | 26,600 | 52,979 | 130,283 | 123,364 | 253,647 |
| 12 | | | 105,028 | 97,305 | 202,333 | 27,675 | 28,114 | 55,789 | 132,703 | 125,419 | 258,122 |
| 13 | | | 104,799 | 97,218 | 202,017 | 27,703 | 29,125 | 56,828 | 132,502 | 126,343 | 258,845 |
| 13 14 | | | 103,835 | 95,714 | 199,549 | 26,701 | 28,451 | 55,152 | 130,536 | 124,165 | 254,701 |
| 15 | | | 85,444 | 77,607 | 163,051 | 24.674 | 25,480 | 50,154 | 110,118 | 103,087 | 213,205 |
| 16 | | | 54,052 | 48,503 | 102,555 | 18,783 | 18,879 | 37,662 | 72,835 | 67,382 | 140,217 |
| 17 | | | 26,755 | 23,629 | 50,384 | 12,462 | 11,336 | 23,798 | 39,217 | 34,965 | 74,182 |
| 18 | | | 7,013 | 4,612 | 11,625 | 2,782 | 1,699 | 4,481 | 9,795 | 6,311 | 16,106 |
| 19 ar | ıd ov | er | 1,706 | 1,094 | 2,800 | 525 | 421 | 946 | 2,231 | 1,515 | 3,746 |
| Austi | ralia- | -1975 1974 | 1,191,171 1,171,995 | 1,106,808 1,085,850 | 2,297,979 2,257,845 | 308,756 307,413 | 312,545 311,068 | 621,301 618,481 | 1,499,927 1,479,408 | 1,419,353 1,396,918 | 2,919,280 2,876,326 |

SCHOOLS: STUDENTS, BY AGE, 1975

(School census enrolment)

| Age ((year | | irthday | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|----------------------------|-------|---------|---|-----------|---------|---------|---------|---------|-----------|--------|--------|-----------|
| Unde | -r 6 | | | 83.574 | 65,219 | 21,561 | 22,570 | 10,168 | 8.085 | 4,056 | 4,445 | 219,678 |
| | | • | • | 85,061 | 72,286 | 37,842 | 22,843 | 22,644 | 8.058 | 2,113 | 4,203 | 255,050 |
| 6 7 8 9 | • | • | • | 81,931 | 69,356 | 37,415 | 22,230 | 21,722 | 7,529 | 2,131 | 3,953 | 246,26 |
| é | • | • | • | 81,572 | 67,395 | 36,848 | 21.511 | 21,370 | 7.521 | 1.969 | 3,876 | 242,062 |
| ŏ | • | • | • | 80,528 | | | | | | | 3,812 | 239,63 |
| 17 | • | • | • | | 65,946 | 36,464 | 22,529 | 21,140 | 7,389 | 1,827 | | |
| 10 | • | • | ٠ | 82,056 | 67,332 | 37,089 | 22,946 | 21,363 | 7,545 | 1,717 | 3,769 | 243,81 |
| !1 | • | • | | 86,929 | 68,414 | 38,881 | 23,602 | 21,865 | 8,386 | 1,713 | 3,857 | 253,64 |
| 12 13 14 15 16 | | | | 88,833 | 68,576 | 39,598 | 24,219 | 22,577 | 8,428 | 1,585 | 4,306 | 258,122 |
| 13 | | | | 88,769 | 69,861 | 40,010 | 24,237 | 22,354 | 8,284 | 1,374 | 3,956 | 258,84 |
| 14 | | | | 87,416 | 68,749 | 38,970 | 24,469 | 21,726 | 8.587 | 1,312 | 3,472 | 254,70 |
| 15 | | | | 75,503 | 59,685 | 28,916 | 20,649 | 17,026 | 7,336 | 1,045 | 3,045 | 213,20 |
| 16 | | | | 48,675 | 44,075 | 16,296 | 14.365 | 10.046 | 3.632 | 601 | 2,527 | 140,21 |
| 17 | | | | 28,533 | 23,697 | 7,248 | 6.087 | 4,845 | 1,808 | 284 | 1,680 | 74,18 |
| 18 | - | | : | 7,450 | 4.756 | 1,244 | 1,364 | 324 | 479 | 77 | 412 | 16,10 |
| | ıd ov | er ' | • | 981 | 1.604 | (a)340 | 388 | 34 | 312 | 26 | 61 | 3,74 |
| | 01. | | • | 701 | 1,007 | (a)340 | .100 | 34 | 312 | 20 | 01 | 5,740 |
| Austi | alia— | -1975 | | 1,007,811 | 816,951 | 418,722 | 274,009 | 239,204 | (b)93,379 | 21.830 | 47,374 | 2,919,280 |
| | | 1974 | • | 996,720 | 805,063 | 412,085 | 271,372 | 232,113 | 92,356 | 22,243 | 44,374 | 2,876,32 |

⁽a) Excludes 3,800 correspondence students (1,479 males, 2,321 females) aged 19 years and over. (b) I correspondence students (2 males, 4 females) who are employed.

⁽b) Excludes 6

Technical and further education

The major part of technical and further education (T.A.F.E.) in Australia is provided in a network of government-administered institutions variously known as colleges, schools or centres of technical or further education. In addition, T.A.F.E. vocational courses are conducted by certain colleges of advanced education and by agricultural colleges in New South Wales and Victoria, and a large number of bodies, both statutory and voluntary, participate in the provision of adult education programs. With the exceptions noted in table footnotes, statistics given in the following section relate only to the technical and further education activities of the major government departments/divisions of T.A.F.E. in each of the six States and the two mainland Territories; they therefore exclude the activities of bodies such as the Board of Adult Education in New South Wales, in the network of evening colleges in that State, the Council of Adult Education in Victoria, and other bodies operating outside the auspices of a government department/division of technical and further education. For further information on the organisation of T.A.F.E. and associated statistical details, see the First Report of the Technical and Further Education Commission, July 1976 and previous reports of the Australian Committee on Technical and Further Education

TECHNICAL AND FURTHER EDUCATION: NUMBER OF INSTITUTIONS, 1975(a)

| | | _ | _ | _ | | | |
|--------------------|--------|-----|---|---|---------------------------|-------------------------------------|-----------------------|
| | | | | | Principal institutions(b) | Branches Annexes Centres(c) | Total institutions |
| New South Wales | | | | | 64 | 134 | 198 |
| Victoria . | | | | | 32 | (d)183 | 215 |
| Queensland . | | | | | 23 | 12 | (e)35 |
| South Australia | | | | | 29 | 254 | 283 |
| Western Australia | | | | | 25 | 79 | 104 |
| Tasmania(f) | | | | | 5 | 3 | 8 |
| Northern Territory | γ. | | | | 1 | 4 | 5 |
| Australian Capital | Territ | огу | | | 1 | (d)10 | 11 |
| Australia . | | | | | 180 | 679 | 859 |

⁽a) Includes parent institutions and branches/annexes as separate institutions. (b) Institutions (other than branches/annexes) having full-time principal officers. (c) Affiliated branches/annexes of parent institutions, or autonomous centres with part-time principal officers. (d) Includes government high schools in which T.A.F.E. evening classes are conducted (102 in Victoria and 5 in the A.C.T.). (e) Includes 10 Adult Education Districts of the Board of Adult Education. (f) Excludes centres administered by the Adult Education Division of the Department of Education.

TECHNICAL AND FURTHER EDUCATION: ENROLMENTS(a); BY ACADEMIC STREAM AND TYPE OF ENROLMENT: STATES AND TERRITORIES, 1975

| | • | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Australia |
|----------------------------------|---|---------|---------|--------|---------|---------|--------|---------|--------|--------------------|
| Academic Stream— Professional | | 1,133 | 589 | 650 | 674 | 285 | 26 | 6 | 144 | 3,507 |
| Para-professional . | | 53,623 | 22,901 | 7,931 | 26,869 | 35,880 | 2,879 | 239 | 3,570 | 153,892 |
| Trades | | 47,197 | 35,425 | 18,907 | 9,900 | 17,644 | 4,062 | 431 | 2,334 | 135,900 |
| Other skilled . | • | 75,470 | 12,873 | 5,909 | 18,212 | 2,306 | 2.728 | 289 | 3,808 | 121,595 |
| Preparatory | • | 19,823 | 34,187 | 14,310 | 17,609 | 10,015 | 955 | 387 | 3,476 | 100,762 155,357 |
| Adult education . | • | 14,436 | 22,903 | 31,909 | 36,236 | 42,583 | | 2,786 | 4,504 | 133,337 |
| Type of enrolment- | | | | | | | | | | |
| Full-time | | 16,537 | 9,611 | 2,643 | 3,422 | 3,790 | 806 | 61 | 1,269 | 38,139 |
| Part-time | | 180,697 | 113,537 | 64,692 | 94,592 | 92,232 | 9,466 | 4,069 | 16,567 | 575.852 |
| Correspondence . | • | 14,448 | 5,730 | 12,281 | 11,486 | 12,691 | 378 | 8 | • • • | 57,022 |
| Total-1975 . | | 211.682 | 128.878 | 79.616 | 109,500 | 108,713 | 10.650 | 4.138 | 17,836 | 671,013 |
| 1974 . | | 194,010 | 118,766 | 78,020 | 100,550 | 93,795 | 10,001 | (b)n.a. | | (b)612,617 |
| | | | | | | | | | | |

⁽a) Statistics shown refer to gross enrolments, no allowance having been made for students enrolled in more than one course. Details reported in this table represent the cumulative total for all enrolments registered in each State and Territory during 1975 up to 31 October.

(b) Enrolment details for the Northern Territory in 1974 are not available due to the loss of records in cyclone "Tracy". Total Australian enrolments for 1974 exclude the Northern Territory.

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TECHNICAL AND FURTHER EDUCATION: ENROLMENTS(a) BY ACADEMIC STREAM TYPE OF ENROLMENT AND FIELD OF STUDY, 1975

| | | Academic | stream | | | | | |
|--|-----|-------------------------|------------------------------------|---------------------------------|------------------------------------|-------------------------------|------------------------------------|------------------------------------|
| Field of study | | Pro- fessional | Para- pro- fessional | Trades | Other skilled | Pre- paratory | Adult Education | Tota |
| | | F | ULL-TIM | IE | , . | | | |
| Applied science | : : | 12 412 | 406 2,327 114 | 30 771 | 99 133 | 780 834 27 | | 1,198 3,702 1,045 |
| Business studies | | 30 14 | 3,976 4,691 173 | 962 | 8,492 171 481 | 932 651 28 | 46 | 13,430 6,53 68 |
| Music Para-medical services Service industries General studies | : : | 228 14 | 156 180 1,900 219 | 13 170 21 | 232 | 43 208 8,143 | :: i7 | 230 2,73 8,41 |
| Total—1975 | | 710 | 14,142 9,453 | 1,967 1,610 | 9,611 7,636 | 11,646 7,796 | 63 54 | 38,139 27,200 |
| | | F | ART-TIM | IE | | | | |
| Applied science | | 46 | 4,383 | 4 | 463 | 5,956 | 1,274 | 12,12 |
| Art and design | | 363 24 959 291 | 7,768 6,331 54,420 29,999 | 426 32,827 42 76,712 | 7,010 3,513 37,939 14,977 | 869 84 4,869 1,777 | 37,121 13,042 3,797 5,335 | 53,55 55,82 102,02 129.09 |
| Rural and horticultural . Music Para-medical services | | 112 | 4,050 2,643 7,109 | 1,141 348 | 4,827 41 207 | 147 130 1 | 2,683 3,731 160 | 12,845 3,905 3,47 |
| Service industries | : : | 132 411 | 1,499 | 16,116 | 31,853 2,149 | 1,419 55,887 | 29,008 57,427 | 85,631 117,373 |
| Total—1975 | : : | 2,338 1,946 | 118,202 115,505 | 127,616 122,707 | 102,979 88,095 | 71,139 64,665 | 153,578 135,597 | 575,852 528,51 |
| | | CORI | RESPONE | ENCE | | | | |
| Applied science Art and design Building industry | : : | 116 | 486 518 578 | i 921 | 244 102 482 | 290 14 | 62i | 1,020 1,250 2,091 |
| Business studies Engineering Rural and horticultural Music | : : | 83 | 13,623 4,512 913 | 3,973 157 | 2,837 1,388 1,776 | 180 101 | 274 444 25 | 16,73 10,24 3,290 25 |
| Para-medical services | | | 518 343 57 | 18 1,239 | 89 1,079 1,008 | 128 2 17,262 | 33 319 | 75. 2,86. 18,73 |
| Total—1975 1974(b) | : : | 459 566 | 21,548 24,479 | 6,317 8,358 | 9,005 6,410 | 17,977 16,156 | 1,716 925 | <i>57,022</i> 56,89 |
| | | ALL | ENROLM | IENTS | | | | |
| Applied science | : : | 58 775 | 5,275 10,613 | 4 457 | 707 7,211 | 7,026 1,717 | 1,274 37,742 | 14,344 58,51 58,96 |
| Building industry . Business studies Engineering Rural and horticultural . | | 140 1,072 305 | 7,023 72,019 39,202 5,136 | 34,519 50 81,647 1,298 | 4,128 49,268 16,536 7,084 | 5,981 2,529 175 | 13,042 3,797 5,655 3,127 | 132,18 145,87 16,82 |
| Music Para-medical services Service industries General studies | | 112 527 518 | 156 3,341 9,352 1,775 | 379 17,525 21 | 296 33,164 3,160 | 130 172 1,629 81,292 | 3,756 160 29,041 57,763 | 4,08 4,46 91,23 144,52 |
| Total—1975 | | 3,507 3,171 | 153,892 149,437 | 135,900 132,675 | 121,595 102,141 | 100,762 88,617 | 155.357 136,576 | 671.01 612,61 |

⁽a) Statistics shown refer to gross enrolments, no allowance having been made for students enrolled in more than one course. Details reported in this table represent the cumulative total of all enrolments registered during 1975 up to 31 October. (b) Figures for 1974 exclude enrolments in the Northern Territory, details of which are not available due to the loss of records in cyclone "Tracy". Northern Territory enrolments for 1975 numbered 4,138 (61 full-time, 4,069 part-time and 8 correspondence).

TEACHER EDUCATION

TECHNICAL AND FURTHER EDUCATION: TEACHING EFFORT(a) BY ACADEMIC STREAM, 1975 ('000 hours)

| Academic stream | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Australia |
|---|--|--|---|--|--|-------------------------------------|---|---|---|
| | | FUI | LL-TIM | E STAFF | (b) | | | | |
| Professional Para-professional Trades Other skilled Preparatory Adult education | . 5.3 . 385.8 . 644.7 . 319.1 . 98.1 . 19.0 | 25.0 414.0 821.0 93.0 255.0 37.0 | 10.6 34.9 376.4 60.6 43.8 5.4 | 1.4 181.8 302.4 24.4 45.9 23.7 | 6.3 276.1 194.9 20.4 21.4 6.6 | 19.0 100.1 21.5 2.4 | 0.3 2.8 15.3 2.3 1.3 2.6 | 4.5 40.1 38.3 19.4 4.4 2.1 | 1,354.6 2,493.1 560.6 472.3 |
| Total full-time— Teaching effort Number of teachers | . 1,472.0 s 2,743 | 1,645.0 3,402 | <i>531 . 7</i> 831 | 579.7 957 | 525.8 874 | 143.1 276 | 24.6 55 | <i>108.7</i> 164 | 5,030.5 9,302 |
| | | PA | RT-TIM | E STAFE | F(c) | | | | |
| Professional Para-professional Trades Other skilled Preparatory Adult education | 4.9 . 384.2 . 261.5 . 324.6 . 140.0 . 47.1 | 2.0 92.0 50.0 34.0 129.5 59.3 | 4.3 53.4 17.3 17.8 25.2 46.9 | 0.9 35.4 2.8 29.8 45.4 118.4 | 3.8 132.2 47.8 17.8 24.1 80.2 | 0.5 24.9 15.3 10.4 6.9 | 0.6 1.5 2.9 0.9 2.5 7.0 | 3.4 16.3 13.0 15.5 18.0 14.5 | 20.4 739.9 410.6 450.8 391.5 373.6 |
| Total part-time— Teaching effort Number of teachers | 1,162.4 s (d)5,739 | 366.8 (d)2,664 | <i>164.8</i> 1,855 | 232.8 (d)2,541 | 305.9 2,644 | 57.9 516 | 15.5 190 | 80.7 441 | 2,386.8 16,590 |
| | | ALL | TEACH | IING ST | AFF | | | | |
| Professional Para-professional Trades Other skilled Preparatory Adult education | 10.2 770.0 906.2 643.7 238.1 66.2 | 27.0 506.0 871.0 127.0 384.5 96.3 | 14.9 88.3 393.6 78.4 68.9 52.3 | 2.3 217.2 305.2 54.3 91.4 142.1 | 10.1 408.4 242.7 38.2 45.5 86.9 | 0.5 43.9 115.4 31.9 9.3 | 0.9 4.4 18.2 3.1 3.7 9.6 | 7.9 56.3 51.4 34.8 22.4 16.6 | 73.8 2,094.6 2,903.7 1,011.4 863.9 469.9 |
| Total— Teaching effort . Number of teachers | 2,634.4 8,482 | 2,011.8 6,066 | 696.4 2,686 | 812.5 3,498 | 831.7 3,518 | 201.0 792 | 40.0 245 | 189.5 605 | 7,417.3 25,892 |

⁽a) Hours of classroom duty performed by teachers during teaching year 1975 (excluding all non-teaching duty).
(b) All teaching staff employed full-time by the relevant TAFE authority, including "multi-sector" staff whose duties extend to teaching areas other than TAFE. Multi-sector staff numbered 1,602 in 1975, of whom 1,446 were employed in Victoria. Teaching hours reported in this table relate only to teaching duties undertaken in TAFE. (c) Statistics of part-time teaching effort relate to all teaching duty performed by staff employed part-time by the TAFE authority, and teaching hours worked on an overtime basis by full-time staff. Details of part-time teacher numbers refer only to teachers employed part-time. (d) No allowance has been made for staff who taught at more than one TAFE institution during 1975.

Teacher education

By 1 July 1973 all former government teachers colleges and kindergarten teachers colleges were within the Commission on Advanced Education's area of responsibility. Statistics for those colleges are included in statistics for colleges of advanced education (shown later in this chapter). The following table shows for 1975 the number of students undertaking teacher education courses in non-government teachers colleges.

STUDENTS ENROLLED IN NON-GOVERNMENT TEACHERS COLLEGES, 1975

| | | | | | N.S.W. | Vic. | Qld | A.C.T. | Australia |
|---|--------|-------|---|---|--------------|--------------|----------|---------|--------------|
| : | | | : | : | 168 1,200 | 278 1,000 | 56 65 | 6 92 | 508 2,357 |
| | | | | | 1,368 | 1,278 | 121 | 98 | 2,865 |
| | | | | | 229 160 | 20 2 | | •• | 249 162 |
| • | | | | | 389 | 22 | •• | • • | 411 |
| | · · | · · · | | | | | | | |

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STUDENTS ENROLLED IN NON-GOVERNMENT TEACHERS COLLEGES, 1975-continued

| Type of cou | rse | | | | | | | N.S.W. | Vic. | Qld. | A.C.T. | Australia |
|---------------|--------|--------|-------|--------|--------|------|-------|--------|-------|------|--------|-----------|
| Not classifia | ible a | s only | prima | агу ог | only s | econ | larv- | · | | | | |
| Males | | | ٠. | ٠. | · | | | 200 | 14 | | | 214 |
| Females | | | | | | | | 324 | 29 | | | 353 |
| Persons | • | | | | | | | 524 | 43 | | | 567 |
| Total— | | | | | | | | | | | | |
| Males | | | | | | | | 597 | 312 | 56 | 6 | 971 |
| Females | | | | | | | | 1,684 | 1,031 | 65 | 92 | 2,872 |
| Persons | | | | | | | | 2,281 | 1,343 | 121 | 98 | 3,843 |
| | | | | | | | : | | | | | |

Colleges of Advanced Education

The following statistics refer to operative institutions listed in the appropriate States Grants (Advanced Education) Acts as colleges of advanced education, and the Canberra College of Advanced Education. These tables show details of students commencing advanced level courses, the number of students and teaching staff in 1975 and the number of students who completed advanced level courses in 1974. The reference date for these statistics is 30 April 1975 except for students who completed advanced level courses for whom the reference date is 31 December 1974. For more detailed statistics, see the annual bulletin Colleges of Advanced Education (13.10).

COLLEGES OF ADVANCED EDUCATION: STUDENTS COMMENCING BY COURSE, LEVEL AND FIELD OF STUDY, 1975

| The late of the second of | 17 | ~ | D1-1 | | 4 | Total | | |
|------------------------------|------------------|---------------------|--------------------|---------|----------------------|--------|---------|---------|
| Field of study | Master degree | Graduate diploma | Bachelor degree | Diploma | Associate diploma | Males | Females | Persons |
| Agriculture | | 40 | 150 | 453 | 214 | 702 | 155 | 857 |
| Applied sciences | 43 | 186 | 2,389 | 176 | 295 | 2,460 | 629 | 3,089 |
| Art and design | | 22 | 171 | 1,965 | 509 | 1,212 | 1,455 | 2,667 |
| Building, surveying and | | | | , | | | | |
| architecture | | 186 | 682 | 288 | 440 | 1,377 | 219 | 1,596 |
| Commercial and business | | | | | | • | | • |
| studies | 39 | 1.285 | 5,770 | 1,754 | 1,536 | 8.341 | 2,043 | 10,384 |
| Engineering and technology . | 15 | 229 | 2,629 | 528 | 373 | 3,703 | 71 | 3.774 |
| Liberal studies | ĭ | 529 | 2,133 | 1,564 | 567 | 1,992 | 2,802 | 4,794 |
| Music | • | | 7,79 | 289 | | 141 | 7,232 | 373 |
| Para-medical | żi | 77 | 984 | 550 | 1.097 | 866 | 1.863 | 2,729 |
| Teacher advection | 49 | 3,751 | 1,402 | 18,025 | 463 | 7,865 | 15,825 | 23,690 |
| reacher education | 7,7 | 3,771 | 1,402 | 10,023 | 403 | 7,005 | 13,523 | 25,070 |
| Total—1975 | 168 | 6,310 | 16,389 | 25,592 | 5,494 | 28,659 | 25,294 | 53,953 |
| 1974 | 80 | 4,915 | 12,165 | 23,192 | 4,307 | 24,402 | 20,257 | 44,659 |

COLLEGES OF ADVANCED EDUCATION: STUDENTS WHO COMPLETED COURSES BY FIELD OF STUDY AND COURSE LEVEL, 1974

| Field of study | 1/ | a | n 1.1 | | 4 | Total | | Persons |
|------------------------------|------------------|---------------------|--------------------|---------|----------------------|-------|---------|---------|
| Tield of Study | Master degree | Graduate diploma | Bachelor degree | Diploma | Associate diploma | Males | Females | |
| Agriculture | | 35 | 68 | 208 | 24 | 299 | 36 | 335 |
| Applied sciences | 2 | 96 | 544 | 256 | 113 | 849 | 162 | 1,011 |
| Art and design | | 19 | • • • | 530 | 126 | 353 | 322 | 675 |
| Building, surveying and | | | | | | | | |
| architecture | | 14 | 116 | 170 | 92 | 358 | 34 | 392 |
| Commercial and business | | | | | | | | |
| studies | | 287 | 575 | 1,009 | 314 | 1,799 | 386 | 2,185 |
| Engineering and technology . | | 32 | 487 | 782 | 213 | 1,506 | 8 | 1,514 |
| Liberal studies | | 242 | 233 | 230 | 64 | 342 | 427 | 769 |
| Music | | - 6 | 19 | 144 | | 51 | 118 | 169 |
| Para-medical | i i | 51 | 304 | 290 | 414 | 223 | 837 | 1,060 |
| Teacher education . | Ī | 2,265 | 218 | 9,459 | 451 | 3,913 | 8,481 | 12,394 |
| Total—1974 | 4 | 3,047 | 2,564 | 13,078 | 1,811 | 9,693 | 10,811 | 20,504 |
| 1973 | 1 | 2,605 | 1,696 | 12,538 | 1,696 | 8,848 | 9,688 | 18,536 |

COLLEGES OF ADVANCED EDUCATION: STUDENTS BY TYPE OF ENROLMENT COURSE LEVEL AND FIELD OF STUDY, 1975

| First - Carrely | Master | Graduate | Doobalos | | Associate | Total | | |
|---|-------------------|--------------------|---------------------------------|--------------------------|-----------------------|-------------------------|-------------------------|-----------------------|
| Field of study | degree | diploma | Bachelor degree | Diploma | diploma | Males | Females | Person |
| | | F | ULL-TIM | E | | | | |
| Agriculture | iż | 39 80 | 360 | 946 386 | 246 127 | 1.327 | 264 796 | 1,59 |
| Applied sciences | | 27 | 2,904 222 | 3,486 | 610 | 2,718 1,881 | 2,464 | 3,51- 4,34 |
| architecture | •• | 184 | 1,200 4,770 | 508 2,171 | 189 704 | 1,607 | 290 1,988 | 1,89 |
| studies Engineering and technology Liberal studies | 8 | 26 341 | 4,365 1,985 | 1,247 1,431 | 295 164 | 5,841 5,856 1,643 | 85 2,278 | 7,82 5,94 3,92 |
| Music Para-medical | 16 10 | 10 64 3,036 | 156 2,021 1,670 | 536 1,066 35,556 | 773 827 | 247 976 12,263 | 455 2,964 28,836 | 70 3,94 41,09 |
| Total—1975 1974 | <i>51</i> 23 | <i>3,807</i> 3,135 | <i>19,653</i> 14,666 | <i>47,333</i> 44,026 | <i>3,935</i> 3,266 | <i>34,359</i> 30,262 | <i>40,420</i> 34,854 | <i>74,77</i> 65,11 |
| | | PART-T | IME—IN | TERNAL | | | | |
| Agriculture | 63 | 1 268 45 | 18 2,166 43 | 24 438 814 | 24 321 444 | 47 2,752 745 | 20 504 601 | 3,25 1,34 |
| Building, surveying and architecture | 1 | 339 | 690 | 713 | 922 | 2,482 | 183 | 2,66 |
| Commercial and business studies | 41 20 | 1,710 338 | 6,797 2,792 | 4,219 1,125 | 1,350 713 | 12,563 4,941 | 1,554 47 | 14,11 4,98 |
| Liberal studies | 1 | 419 2 | 1,922 117 | 1,291 | 522 | 1,902 96 | 2,253 255 | 4,15 35 |
| Para-medical | 20 115 | 24 949 | 377 1,243 | 109 5,132 | 843 30 | 641 3,309 | 732 4,160 | 1,37 7,46 |
| Total—1975 1974 | <i>261</i> 165 | 4,095 3,279 | 16,165 13,044 | <i>14,097</i> 14,821 | 5,169 4,324 | 29,478 27,719 | 10,309 7,914 | <i>39,78</i> 35,63 |
| | | PART-T | ІМЕ—ЕХ | TERNAL | | | | |
| Agriculture | | | 380 | 1 20 | 71 171 | 57 444 | 15 127 | 7: 57 |
| Art and design Building, surveying and architecture | •• | 5 | 2 | 11 | 9 | 9 15 | 2 1 | 1 |
| Commercial and business studies | | 210 | 721 | 609 | 765 | 1,956 | 349 | 2,30 |
| Engineering and technology . Liberal studies | | żi | 30 637 | 12 314 | 13 103 | 55 448 | 627 | 5 1,07 |
| Music | •• | 294 | 1 i ż | 2 58 3,065 | 355 | 1 155 1,116 | 258 2,355 | 41 3,47 |
| Total—1975 1974 | | <i>530</i> 418 | 1,882 1,194 | 4,092 3,645 | <i>1,487</i> 1,196 | 4,256 3,459 | 3,735 2,994 | 7,99 6,45 |
| | | ALL | STUDE | NTS | | | | |
| Agriculture | żò | 40 348 | 378 5,450 | 971 844 | 341 619 | 1,431 5,914 | 299 1,427 | 1,730 7,34 |
| Art and design Building, surveying and architecture | | 72 344 | 265 1,892 | 4,311 1,221 | 1,054 1,120 | 2,635 4,104 | 3,067 474 | 5,70: 4,57 |
| Commercial and business studies | 41 28 | 2,104 364 | | 6,999 2,384 | 2,819 1,021 | 20,360 10,852 | 3,891 132 | 24,25 10,98 |
| Liberal studies Music | | 781 12 | 12,288 7,187 4,544 273 | 3,036 770 | 789 | 3,993 344 | 5,158 711 | 9,15 1,05 |
| Para-medical | 36 125 | 88 4,279 | 2,398 3,025 | 1,233 43,753 | 1,971 857 | 1,772 16,688 | 3,954 35,351 | 5,72 52,03 |
| Total—1975 1974 | 312 188 | 8,432 6,832 | 37,700 28,904 | 65,52 2 62,492 | 10,591 8,786 | 68,093 61,440 | 54,464 45,762 | 122,55° 107,20° |

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COLLEGES OF ADVANCED EDUCATION: TEACHING STAFF BY FIELD OF TEACHING STATES AND A.C.T., 1975

(Full-time and part-time academic and non-academic staff in full-time equivalent units, rounded to whole numbers)

| Field of teaching | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Australia |
|---|----------------|----------------|---------------|------------|------------|------------|---|----------------|
| | | FULL | -TIME ST | TAFF | | | | |
| Agriculture | 75 | 52 | 48 | 23 | 8 | | | 205 |
| Applied sciences | 170 | 397 | 123 | 43 | 87 | 18 | 70 | 907 |
| Art and design | 83 | 182 | 27 | 42 | 28 | 21 | | 384 |
| Building, surveying and | 29 | 56 | 18 | 31 | 34 | 10 | 11 | 189 |
| architecture . Commercial and business | 29 | 30 | 18 | 31 | 34 | 10 | 11 | 169 |
| studies | 115 | 281 | 74 | 42 | 81 | 19 | 35 | 647 |
| Engineering and technology . | 66 | 424 | 68 | 77 | 66 | 16 | | 717 |
| Liberal studies | 60 | 330 | 20 | 100 | 93 | 8 | 45 | 656 |
| Music | 47 | 4 | 10 | 2 | | 15 | | 78 |
| Para-medical | 86 | 99 | 18 | 44 | 58 | _4 | | 309 |
| Teacher education | 919 | 1,202 | 458 | 400 | 364 | 88 | 43 | 3,475 |
| Not classifiable | 58 | 122 | •• | 20 | 4 | 4 | •• | 208 |
| Total—1975 | 1.709 | 3,148 | 864 | 823 | 821 | 203 | 204 | 7.773 |
| 1974 | 1,581 | 2,853 | (b)821 | 723 | 756 | 184 | 185 | 7,102 |
| | | PART-7 | IME STA | FF(a) | | | | |
| Agriculture | 2 | 1 | 5 | •• | 2 | | | 10 |
| Applied sciences | 15 | 46 | 19 | · ; | 20 | · ; | 16 | 122 |
| Art and design | 57 | 29 | | 9 | 11 | 4 | | 111 |
| Building, surveying and | | | 20 | | • | • | | |
| architecture | 12 | 19 | 28 | 4 | 3 | 2 | 1 | 68 |
| Commercial and business | 8 | 34 | 20 | 7 | 29 | 2 | 14 | 113 |
| studies | 17 | 28 | 6 | 2 | 29 | í | 14 | 63 |
| Liberal studies | ií | 45 | 6 | 23 | 22 | | i4 | 120 |
| Music | 23 | 3 | ğ | | | 5 | • | 40 |
| Para-medical | 11 | 24 | 4 | 14 | 16 | 1 | | 70 |
| Teacher education | 37 | 56 | 26 | 40 | 18 | 27 | 12 | 216 |
| Not classifiable | 2 | 54 | • • | 2 | 2 | • • | • • | 60 |
| Total1975 | 195 | 339 | 122 | 103 | 133 | 44 | 57 | 994 |
| 1974 | 193 | 289 | (a)170 | 105 | 92 | 43 | 44 | 936 |
| | | Al | LL STAFF | 7 | | | | |
| Agriculture | 77 | 53 | 53 | 23 | 9 | | | 214 |
| Applied sciences | 186 | 444 | 142 | 45 | 107 | 21 | 86 | 1,029 |
| Art and design | 141 | 211 | 27 | 51 | 39 | 25 | | 494 |
| Building, surveying and architecture | 42 | 75 | 46 | 35 | 37 | 12 | 12 | 257 |
| Commercial and business | | | | | | | | |
| _ studies | 123 | 315 | 93 | 49 | 109 | 21 | 49 | 760 |
| Engineering and technology . | 84 | 452 | 74 | 79 | 75 | 17 | ** | 780 |
| Liberal studies Music | 71 70 | 374 7 | 26 19 | 123 | 115 | 8 20 | 59 | 776 |
| Music Para-medical | 70 97 | 123 | 22 | 2 58 | 74 | 20 5 | • • | 119 379 |
| Teacher education | 955 | 1,258 | 484 | 440 | 381 | 116 | 55 | 3,690 |
| Not classifiable | 60 | 176 | *** | 22 | 6 | 4 | | 268 |
| | | | | | - | • | • • | 00 |
| ma . a | | | | | | | | |
| Total—1975 1974 | 1,905 1,774 | 3,488 3,143 | 986 (a)991 | 926 827 | 954 848 | 247 227 | 261 229 | 8,767 8,038 |

⁽a) Part-time teaching staff expressed in equivalent full-time units. (b) Includes some staff engaged in teaching courses which were not at an advanced level.

Universities

The following university statistics provide details of the total number of students enrolled in university courses, the teaching staff engaged, and the number of students commencing and completing courses. The reference date for the statistics is 30 April except for students completing courses for whom the reference date is the year ended 30 June. For more detailed statistics, see the annual publications University Statistics, Parts 1 and 2 (13.7 and 13.8).

UNIVERSITIES: STUDENTS COMMENCING DEGREE COURSES, 1975

| | | | | Doctorate (other than Ph.D.) | Ph.D. | Master | Bachelor | Total | | | | |
|--------------------|---------------|-----|---|---------------------------------------|-------------------|-------------------|-------------------|--------|---------|---------|--|--|
| | | | | courses | degree courses | degree courses | degree courses | Males | Females | Persons | | |
| New South Wales | | | | 6 | 321 | 2,195 | 15,480 | 11,294 | 6,708 | 18,002 | | |
| Victoria | | | | 14 | 152 | 899 | 10,465 | 6,790 | 4,740 | 11,530 | | |
| Queensland . | | | | 16 | 113 | 433 | 4,854 | 3,071 | 2,345 | 5,416 | | |
| South Australia | | | | 10 | 89 | 358 | 3,341 | 2,454 | 1,344 | 3,798 | | |
| Western Australia | | | | | 99 | 260 | 3,704 | 2,559 | 1,504 | 4,063 | | |
| Tasmania . | | | | | 29 | 50 | 1,081 | 731 | 429 | 1,160 | | |
| Australian Capital | Ferrit | ory | • | | 163 | 145 | 1,631 | 1,172 | 767 | 1,939 | | |
| Australia-197 | 5 . | | | 46 | 966 | 4,340 | 40,556 | 28,071 | 17,837 | 45,908 | | |
| 197 | 4 . | | | 28 | 1,004 | 3,863 | 39,012 | 27,444 | 16,463 | 43,907 | | |

UNIVERSITIES: FULL-TIME AND PART-TIME STUDENTS(a) BY SEX AND COURSE LEVEL, 1971 TO 1975

| | Males | | | | | Females | | | | |
|-----|---------------------------|---------------------------|---------------------------|------------------------------|--|--|--------------------------|--------------------------|--|--------------------------|
| | 1971 | 1972 | 1973 | 1974 | 1975 | 1971 | 1972 | 1973 | 1974 | 197 |
| | | | FUL | L-TIME | Ξ | | | | | |
| | 4,293 1,148 47,311 | 4,295 1,544 48,851 | 4,220 1,743 49,389 | 4,486 1,933 52,613 | 4,756 1,926 54,029 | 889 1,731 23,863 | 973 2,270 25,698 | 1,041 2,223 26,962 | 1,318 2,268 29,876 | 1,458 2,278 32,371 |
| | 753 | 740 | 225 | 213 | 157 | 508 | 446 | 313 | 298 | 135 |
| | 52,829 | 54,612 | 55,577 | 59,245 | 60,868 | 26,608 | 28,983 | 30,539 | 33,760 | 36,242 |
| | | | PART | -TIME(| d) | | | | | |
| | 6,032 1,561 22,232 | 6,429 1,532 21,902 | 6,967 2,179 21,967 | 7,634 2,307 21,645 | 8,288 2,497 20,764 | 1,255 831 9,238 | 1,360 848 9,849 | 1,549 1,050 10,750 | 1,824 1,151 12,234 | 2,174 1,279 12,955 |
| · · | 2,324 | 2,244 | 1,528 | 1,653 | 1,661 | 1,127 | 1,193 | 1,020 | 1,406 | 1,610 |
| | 31,971 | 31,928 | 32,641 | 33,239 | 33,210 | 12,368 | 13,145 | 14,369 | 16,615 | 18,018 |
| | , | | ALL S | ruden | TS | | | | | |
| | 10,325 2,709 69,543 | 10,724 3,076 70,753 | 11,187 3,922 71,356 | 12,120 4,240 74,258 | 13,044 4,423 74,793 | 2,144 2,562 33,101 | 2,333 3,118 35,547 | 2,590 3,273 37,712 | 3,142 3,419 42,110 | 3,632 3,557 45,326 |
| · · | 3,077 | 2,984 | 1,753 | 1,866 | 1,818 | 1,635 | 1,639 | 1,333 | 1,704 | 1,745 |
| | 84,800 | 86,540 | 88,218 | 92,484 | 94,078 | 38,976 | 42,128 | 44,908 | 50,375 | 54,260 |
| | certifi- | | | ## FUL 1971 1972 1973 | FULL-TIME FULL-TIME 4,293 4,295 4,220 4,486 1,148 1,544 1,743 1,933 certifi- 753 740 225 213 . 52,829 54,612 55,577 59,245 PART-TIME(. 6,032 6,429 6,967 7,634 . 1,561 1,532 2,179 2,307 certifi- 22,232 21,902 21,967 21,645 . 31,971 31,928 32,641 33,239 ALL STUDEN . 10,325 10,724 11,187 12,120 . 2,709 3,076 3,922 4,240 . 2,709 3,076 3,922 4,240 . 69,543 70,753 71,356 74,258 certifi- 3,077 2,984 1,753 1,866 | ## 1971 1972 1973 1974 1975 ## FULL-TIME ## 1,148 1,544 1,743 1,933 1,926 1,148 1,544 1,743 1,933 1,926 1,926 1,938 52,613 54,029 1,938 52,613 54,029 1,938 52,613 54,029 1,938 52,613 54,029 1,938 52,613 54,029 1,938 1,926 1,938 1,926 1,938 1,938 1,926 1,938 1,93 | FULL-TIME FULL-TIME . | FULL-TIME FULL-TIME . | ### FULL-TIME ## FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-TIME ### FULL-T | FULL-TIME FULL-TIME . |

⁽a) For the years 1971 and 1972, the components do not add to total students as students enrolled for two or more courses were included in each course for which they were enrolled. (b) Includes, as well as post-graduate diploma courses, masters and other post-graduate preliminary and qualifying courses which were included with Sub-graduate diploma, certificate and other prior to 1973. (c) Other refers to single and miscellaneous subjects of university standard. See also footnote(b). (d) Includes external students.

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UNIVERSITIES: STUDENTS COMPLETING DEGREE AND POST-GRADUATE DIPLOMA COURSES BY FIELD OF STUDY, YEAR ENDED 30 JUNE 1975

| | Degree | es | | | | | | |
|---|--------------------------------|----------------|----------------|-------------|---|------------|---------------|----------------|
| Field of study | Doctore (oth th Ph. I | her an | Ph.D. | Master | Bachelor | | Post luate | Total |
| | | | rn.D. | Musier | Ducheloi | игрго | | |
| Humanites | | 1 | 79 | 210 | 7,048 | | | 7,338 |
| Fine arts | | | 1 | 7 | 110 | | | 118 |
| Social and behavioural sciences | • | • • | 48 | 113 | 526 | | 552 | 1,239 |
| Law | • | • • | 3 | 38 | 1,006 | 2 | 39 | 1,086 |
| Education | • | • • | 12 18 | 221 309 | 807 3,065 | 3 | ,066 70 | 4,106 3,462 |
| Economics, commerce, government Medicine | • | 29 | 60 | 17 | 1,463 | | 82 | 1,651 |
| Dentistry | • | 2 | 3 | 13 | 218 | | 6 | 242 |
| Natural sciences | • | 11 | 379 | 238 | 4,862 | | 103 | 5,593 |
| Engineering, technology | | 1 | 107 | 268 | 1,718 | | 42 | 2,136 |
| Architecture | | | 3 | 49 | 474 | | 33 | 559 |
| Agriculture, forestry | | 1 | 29 | 66 | 358 | | 60 | 514 |
| Veterinary science | | 1 | 8 | 11 | 205 | | 1 | 226 |
| | | | | | | | | -0 |
| Total 1975 | | 46 | 750 | 1,560 | 21,860 | | ,054 | 28,270 |
| 1974 | • | 45 | 726 | 1,310 | 21,115 | 3 | ,966 | 27,162 |
| UNIVERSITIES: TEA | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Aust. |
| | FUL | L-TIMI | E STAFI | F | | | | |
| Humanities | 642 26 | 439 | 198 14 | 156 | 94 9 | 46 | 132 | 1,706 112 |
| Social and behavioural sciences | 469 | 36 210 | 115 | 28 91 | 85 | 27 | 47 | 1,042 |
| Law | 108 | 116 | 29 | 25 | 16 | 13 | 30 | 337 541 |
| Education | 237 429 | 140 242 | 61 130 | 46 80 | 45 63 | 12 27 | 58 | 1,028 |
| Medicine | 255 | 252 | 158 | 100 | 75 | 36 | 1 | 876 |
| Dentistry | 41 985 | 29 586 | 29 359 | 22 293 | 14 170 | 88 | 118 | 135 2,597 |
| Engineering, technology | 492 | 181 | 109 | 50 | 57 | 22 | | 910 |
| Architecture | 112 102 | 36 45 | 24 37 | 16 40 | 8 21 | · . | iċ | 196 269 |
| Veterinary science | 50 | 36 | 50 | | 7 | | | 143 |
| Other(b) | 2 | | 48 | | •• | 1 | • • | 51 |
| Total—1975 | 3,950 | 2,346 2,251 | 1,360 1,243 | 945 | 662 | 280 | 402 | 9,943 |
| 1974 | 3,640 | 2,251 | 1,243 | 883 | 575 | 271 | 369 | 9,231 |
| PART-T | IME STA | .FF (full | -time equ | uivalent un | its)(c) | | | |
| Humanities | 41 | 17 | 11 | 5 | 5 | 1 | 6 | 86 |
| Fine arts | 3 39 | 11 10 | 1 9 | 3 4 | 2 7 | • • | ż | 20 75 |
| Law | 7 | 3 | 2 3 | 2 2 | 2 | | 2 | 20 |
| Education Economics, commerce, government | 65 35 | 26 13 | 3 3 | 2 3 | 6 5 | 1 | ż | 103 63 |
| Medicine | 92 | 75 | 34 | 10 | 16 | 2 | | 229 |
| Dentistry | 19 15 5 | 10 | 7 | 15 42 | 8 29 | ίi | ġ. | 58 365 |
| Engineering, technology | 15 5 53 | 94 32 | 25 8 | 42 8 | 4 | 2 | | 107 |
| Architecture | 53 27 | 8 | 4 | 3 | 4 | | | 46 |
| Agriculture, forestry | 9 | 5 1 | 3 2 | 1 | 2 | 1 | 1 | 22 7 |
| Other(b) | i | | 7 | | • | • • | • • • | 8 |
| Total—1975 | 550 | 304 | 119 | 98 | 91 | 20 | 28 | ! 210 |
| 1974 | 512 | 374 | 99 | 103 | 82 | 17 | 17 | !,210 1,204 |
| | | | | | | | | |

UNIVERSITIES

UNIVERSITIES: TEACHING STAFF(a), BY FIELD OF TEACHING, 1975—continued

| Field of teaching | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Aust. |
|-----------------------------------|----------|-------------|-----------|------------|------|------|--------|--------|
| | ALL STAF | F (full-tir | ne equiva | alent unit | s) | | | |
| Humanities | . 683 | 456 | 209 | 161 | 98 | 47 | 138 | 1,792 |
| Fine arts | . 29 | 47 | 15 | 31 | 11 | :: | :: | 132 |
| Social and behavioural sciences . | . 508 | 220 | 123 | 94 | 92 | 27 | 52 | 1,117 |
| Law | . 115 | 119 | 31 | 27 | 19 | 13 | 32 | 356 |
| Education | . 302 | 166 | 64 | 48 | 51 | 13 | 1.1 | 644 |
| Economics, commerce, government | . 463 | 255 | 133 | 83 | 68 | 28 | 61 | 1,092 |
| Medicine | . 347 | 326 | 192 | 109 | 91 | 38 | 1 | 1,105 |
| Dentistry | . 60 | 38 | 36 | 37 | 22 | :: | , . | 193 |
| Natural sciences | . 1,140 | 679 | 384 | 334 | 199 | 99 | 127 | 2,962 |
| Engineering, technology | . 545 | 213 | 119 | 58 | 61 | 24 | | 1,017 |
| Architecture | . 139 | 44 | 28 | 19 | 11 | • • | | 242 |
| Agriculture, forestry | . 111 | 50 | 40 | 41 | 23 | 9 | 17 | 291 |
| Veterinary science | . 53 | 36 | 52 | | 7 | | ٠. | 150 |
| Other(b) | . 3 | • • | 55 | •• | •• | 1 | • • | 59 |
| Total-1975 | . 4,499 | 2,650 | 1,479 | 1,043 | 753 | 299 | 430 | 11,153 |
| 1974 | . 4,152 | 2,625 | 1,342 | 986 | 657 | 288 | 386 | 10,435 |

⁽a) Excludes research only staff. (b) Includes staff teaching in the field of general studies and also a small number of staff unallocated to field of teaching. (c) The conversion of part-time staff to equivalent full-time units is made on the following basis: lecturer—250 hours per annum; and tutor/demonstrator—700 hours per annum.

Overseas students

The following table shows the number of private students and sponsored overseas students and trainees in Australia at 30 June 1974 and 1975, respectively. The Department of Immigration and Ethnic Affairs and the Department of Education prepare statistics of overseas students admitted under the *Private Overseas Student Program*. Further details on sponsored overseas students and trainees in Australia are available from publications issued by the Australian Development Assistance Bureau within the Department of Foreign Affairs.

OVERSEAS STUDENTS: NUMBER OF PRIVATE STUDENTS AND SPONSORED STUDENTS AND TRAINEES BY LAST PLACE OF RESIDENCE, AS AT 30 JUNE

| | | | | | | | Sponsored students and trainees—1975 | | | | | | | | | | |
|-----------|-------|-----------------------------|-----------------|---|-------------------------|-------|--------------------------------------|-----|-----|-------|--|--|--|--|--|--|--|
| stude | | Private students 1974 | Colombo Plan | Common- wealth Co- operation in Edu- cation | Home govern- ment | Other | Total | | | | | | | | | | |
| Europe | | | | • | 72 | | 3 | | 4 | 7 | | | | | | | |
| Africa . | | | | | 76 | | 85 | 25 | 102 | 212 | | | | | | | |
| America | | | | | 265 | | 9 | 1 | 4 | 14 | | | | | | | |
| Asia— | | | | | - | | | | • | - 4 | | | | | | | |
| Burma | • | • | • | • | 7 | 51 | •• | • • | 3 | 54 | | | | | | | |
| China- | | | _ | | | | | | | | | | | | | | |
| Exclud | ing T | aiwan | Provi | ince | | • • | •• | • • | • • | • • | | | | | | | |
| Taiwar | | vince | only | • | 70 | | •: | :: | • • | :: | | | | | | | |
| Hong K | ong | • | • | • | 821 | :: | 1 | 19 | • • | 20 | | | | | | | |
| India | • | • | - | • | 119 | 14 | 5 | • • | :: | 19 | | | | | | | |
| Indonesi | а. | • | • | • | 530 | 214 | • • | • • | 15 | 229 | | | | | | | |
| Japan | • . | • | • | • | 261 | 11 | • • | • • | •• | .: | | | | | | | |
| Khmer I | Repub | olic | • | • | 14 | 64 | • • | • • | 4 | 68 | | | | | | | |
| Laos | | | | | 14 | 104 | | 1 | •• | 105 | | | | | | | |
| Malaysia | | | | | 4,853 | 330 | 6 | 60 | 6 | 402 | | | | | | | |
| Pakistan | | | | • | 67 | 36 | 1 | 1 | 1 | 39 | | | | | | | |
| Philippin | | | | • | 317 | 40 | | | 4 | 44 | | | | | | | |
| Singapor | | | | • | 629 | 173 | 1 | 120 | 2 | 296 | | | | | | | |
| Sri Lank | | | | | 70 | 49 | 5 | | 4 | 58 | | | | | | | |
| Thailand | | | | | 336 | 218 | • • | | 10 | 228 | | | | | | | |
| Viet Nar | | | | • | 79 | 315 | | • • | 20 | 335 | | | | | | | |
| Other As | sia | • | • | • | 60 | 167 | 5 | 8 | 12 | 192 | | | | | | | |
| Tota | ıl. | | | | 8,247 | 1,775 | 24 | 209 | 81 | 2,089 | | | | | | | |

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OVERSEAS STUDENTS: NUMBER OF PRIVATE STUDENTS AND SPONSORED STUDENTS AND TRAINEES BY LAST PLACE OF RESIDENCE, AS AT 30 JUNE—continued

| | | | Sponsored | students and t | rainees—1975 | ī | | |
|-------------------------|--|---|-----------------------------|-----------------|---|-------------------------|-------|-------|
| Last place of residence | | | Private students 1974 | Colombo Plan | Common- wealth Co- operation in Edu- cation | Home govern- ment | Other | Total |
| Oceania— | | | | | | | | |
| Fiji | | | 186 | | 19 | 3 | 29 | 51 |
| Nauru . | | | 81 | | | | | |
| New Caledonia. | | | 40 | | | | 1 | 1 |
| Papua New Guinea | | | 408 | | | | 206 | 206 |
| Solomon Islands | | | 50 | | 15 | | 5 | 20 |
| Tonga | | | 50 | | 22 | 1 | 20 | 43 |
| Other Oceania . | | • | 82 | • • | 34 | • • | 24 | 58 |
| Total | | | 897 | • • | 90 | 4 | 285 | 379 |
| Total overseas students | | | (a)9,563 | 1,775 | 211 | 239 | 476 | 2,701 |

⁽a) Includes six students for whom last place of residence was not stated.

Educational training in the Defence Force

The following table shows the number of students enrolled in training establishments for Service personnel.

SERVICE ESTABLISHMENTS PROVIDING EDUCATIONAL TRAINING: AUSTRALIA, 1974 AND 1975

| | Student: enrolled | | New ent during y | | Number completi course during y | ing |
|--|----------------------|------|---------------------|-----------|--|------|
| Establishment | 1974 | 1975 | 1974 | 1975 | 1974 | 1975 |
| Staff colleges— | | | | | | |
| Joint Services Staff College | 66 | 72 | 66 | 72 | 66 | 72 |
| Australian Staff College | 80 | 80 | 80 | 80 | 80 | 80 |
| Royal Australian Air Force Staff College | 36 | 36 | 36 | 36 | 35 | 35 |
| Officer cadet training establishments— | | | | | | |
| Royal Australian Naval College | 188 | 145 | 80 | 54 | 60 | 60 |
| Royal Military College | 359 | 482 | 107 | 134 | 55 | 61 |
| Royal Australian Air Force Academy . | 111 | 86 | 39 | 36 | 12 | 20 |
| Apprentice schools— | | | | 40# | 220 | 220 |
| Navy | 480 | 349 | 201 | 187 | 329 | 328 |
| Army | 401 | 353 | 113 | 240 | 207 | 126 |
| | 270 | 220 | 107 | 120 | 104 | 88 |
| Wagga Wagga | 270 94 | 229 | 127 | 130 17 | 20 | 22 |
| Other— | 94 | 64 | 31 | 17 | 20 | 22 |
| Royal Australian Navy Junior Recruit Training | | | | | | |
| School | 761 | 658 | 714 | 643 | 648 | 596 |
| Royal Australian Air Force School of Languages | 40 | 35 | 40 | 35 | 40 | 33 |

Student assistance schemes

The following table on student assistance schemes is taken from selected recent statistics published by the Department of Education.

STUDENT ASSISTANCE SCHEMES FUNDED BY THE DEPARTMENT OF EDUCATION

| | Number of | students | Expenditu | re(\$'000) |
|---|-----------|----------|-----------|------------|
| Scheme(a) | 1974 | 1975 | 197374 | 1974-75 |
| Postgraduate Awards(b) | 2,157 | 2,225 | 7,473 | 8,124 |
| Tertiary Education Assistance(b) | 70,099 | 73,886 | 34,867 | 77,336 |
| Technical Scholarships(b) | 1,548 | 486 | 516 | 128 |
| Pre-school Teacher Education(b) | 1,656 | 2,126 | 1,755 | 2,648 |
| Postgraduate Awards—Social Work(b) | | 19 | · | 33 |
| Secondary Scholarships(b) | 86 | | 968ገ | < 10m |
| Senior Secondary Scholarships(b) | 48,502 | 24,107 | 9,763 | 6,127 |
| Secondary Allowances(c) | 8,500 | 9,783 | 1,164 | 2,472 |
| Adult Secondary Education Assistance(b) | · | 1.021 | · | 759 |
| Aboriginal Secondary Grants(b) | 10,669 | 11,762 | 6,093 | 7,197 |
| Aboriginal Study Grants(c) | 1,460 | 1,875 | 905 | 1,403 |
| Aboriginal Study Grants—Overseas(c) | | 8 | | ´ S |
| Assistance for Isolated Children(c) | 17,882 | 19,037 | 8,188 | 9,539 |
| Education Assistance for Darwin Students(b) . | , | 9,968 | | 967 |
| Non-State Tertiary Institutions—Fees(c) | | 13,145 | | 1,615 |
| Ex-Servicemen's Vocational Training Schemes(b)(d) | 433 | (d) | 820 | (d)421 |
| Other(b) | 64 | 49 | 56 | 19 |

⁽a) In addition to the schemes listed below, there was expenditure in 1973-74 on the Commonwealth University Scholarship Scheme (\$36,826,000) and the Commonwealth Advanced Education Scholarship Scheme (\$5,397,000). No new awards were granted after 1973 under these schemes and from 1974 continuing scholars received assistance under the Tertiary Education Assistance Scheme. (b) For this scheme, number of students represents students receiving benefits at 30 June each year. (c) For this scheme, number of students represents students receiving benefits at some time during the year. (d) This scheme became the responsibility of the then Department of Labour and Immigration from 1 January 1975. Expenditure shown for 1974-75 is for July-December 1974 only.

Expenditure on education

The statistics in this section are intended to give a broad indication of the extent and direction of both government and private effort in the field of education in recent years. They have been compiled in accordance with national accounting concepts and, apart from some minor revisions which have been incorporated where later information became available, are consistent with the estimates included in Australian National Accounts: National Income and Expenditure, 1974–75 (7.1). These figures can therefore be related to other national accounts aggregates. For explanation of the relevant national accounting concepts, reference should be made to Australian National Accounts, 1974–75 and also to Public Authority Finance: Federal Authorities, 1975–76 (5.12), and Public Authority Finance: States and Local Authorities, 1973–74 (5.43), from which figures included in this section have also been taken.

The emphasis given in this section to the outlays of the public sector in part reflects the relative importance of that sector in the provision of education services, but is also a reflection of lack of detailed information relating to educational activities in the private sector. Sufficient information is given, however, to show the order of magnitude of private sector spending, and also to show aggregate demand for education services and facilities.

Total expenditure on education

Total expenditure on education can be measured by adding to the outlay of the public sector the final expenditure on education which the private sector finances from its own resources, or alternatively by adding together the final expenditures of both sectors (i.e. consolidating out the public authority transfers, and also any (net) transactions in existing fixed assets).

The figure derived for total expenditure on education can be regarded as a measure of the aggregate supply of education services and facilities and can therefore be related to the supply of goods and services available from domestic production (i.e. gross domestic product). Final consumption expenditure and capital expenditure on education, by sector, can also be related to the gross domestic product. In addition, total expenditure on education can be related, by financing sector, to the gross domestic product. These relationships are shown in the following table.

AUSTRALIA: EXPENDITURE ON EDUCATION
(\$ million)

| | (* 111111011) | | | | |
|---|---------------|--------------|--------------|--------------|--------------|
| | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974–75р |
| Public sector— . | | | | | |
| Final consumption expenditure Expenditure on new fixed assets | 1,018 246 | 1,213 286 | 1,450 324 | 1,894 378 | 2,766 645 |
| Final expenditure(1) | 1,264 | 1,499 | 1,773 | 2,272 | 3,411 |
| Transfers to the private sector and expen- | | | | | |
| diture on existing fixed assets (net) . | 143 | 170 | 215 | 253 | 317 |
| Outlay | 1,407 | 1,669 | 1,988 | 2,525 | 3,727 |
| Private sector— | | | | | |
| Final consumption expenditure Expenditure on new fixed assets | 171 46 | 196 41 | 214 38 | 208 43 | 200 74 |
| Final expenditure(2) | 217 | 237 | 252 | 251 | 274 |
| Total expenditure on education (1) | 1 401 | 1.536 | 2.025 | 2 522 | 2 (05 |
| +(2) | 1,481 | 1,736 | 2,025 | 2,523 | 3,685 |
| Gross domestic product | 32,928 | 36,725 | 41,852 | 50,694 | 59,551 |
| Expenditure on education as percentage of Gross domestic product— | | | | | |
| Final consumption expenditure— | | | | | |
| Public | 3.1 0.5 | 3.3 0.5 | 3.5 0.5 | 3.7 0.4 | 4.6 0.3 |
| Expenditure on new fixed assets— Public | 0.7 0.1 | 0.8 0.1 | 0.8 0.1 | 0.7 0.1 | 1.1 |
| Total expenditure | 4.5 | 4.7 | 4.8 | 5.0 | 6.2 |

Private sector

Final expenditure on education by the private sector consists of private final consumption expenditure on education services, and expenditure on new fixed assets—mainly by private non-profit organisations, and financed in part by the grant from public authorities for private capital expenditure. These grants are treated as transfers rather than final expenditure of public authorities as with the current grants, and are recorded as a source of funds for capital formation in the national capital account. Private final consumption expenditure on education services is an estimate of fees paid by persons to government schools (mainly technical and agricultural colleges), fees and gifts to universities and school fees (other than boarding fees) paid to non-government schools, business colleges, etc., and is based largely on information relating to fees charged and enrolments at these institutions. Expenditure on such items as school books, uniforms, etc., and expenditure by parents associations on school equipment are included in categories other than education services (such as clothing, etc., newspapers, books, etc., and household durables). Private gross fixed capital expenditure in the field of education is estimated from statistics of the value of work done on new building and major additions to buildings of privateeducational institutions.

Public sector

The statistics which follow form part of a comprehensive statistical program to reclassify the transactions recorded in the 'conventional' accounts of all public authorities into a national accounting presentation. As part of this program, the outlay of public authorities is classified by function, so as to reveal the broad purposes for which the public authorities undertake expenditure programs. These statistics relate to those outlays which have been identified as being primarily designed to serve the purposes of 'education', broadly as defined in the United Nations System of National Accounts. Included, therefore, are outlays on administration and regulation of school systems and institutions of higher learning and educational research; on provision, inspection and support of primary and secondary schools, colleges and universities, technical training institutions, schools for the handicapped, adult education facilities, pre-school centres, etc.; on scholarships, etc.; and on subsidiary services such as transportation of school children and fare concessions. Expenditures on school medical and dental services and provision of free milk for school-children are not included, as these are regarded as primarily serving the purpose of health.

Apart from giving emphasis to the broad purposes of public sector outlays, a national accounting presentation of the transactions of public authorities is also designed to facilitate the study of their impact on the rest of the economy. In the following tables the outlays of the public authorities engaged in providing education services or financing their provision by other bodies, public or private, have accordingly been broken into broad categories of final expenditure on goods and services (i.e. final consumption expenditure, and expenditure on new fixed assets); capital financing items (e.g. net expenditure on existing assets); transfers to the private sector (cash benefits, grants for private capital expenditure) which become a source of finance for that sector's own final expenditures; and transfers between public authorities (Commonwealth Government grants to the States).

Detailed analyses have not been prepared of the accounts of all public authorities providing or financing education services but methods of analysis have been adopted which reflect the net effect of the transactions of authorities not fully analysed (such as the State universities). Private non-profit organisations are covered by recording their final consumption expenditure as final expenditure by public authorities and persons: that is, the current grants to these organisations by public authorities are treated as public authorities' final expenditure, and fees, donations, etc. paid to them by persons are included in private final consumption expenditure. Current outlay of non-profit organisations is therefore covered, being approximately equal to their income from grants and fees. For reasons of practicality, grants for capital expenditure by public authorities to private non-profit organisations are treated as transfers, so that the capital expenditure of these organisations is wholly recorded in the private sector.

All public authorities

The outlay on education by all public authorities consists of the final expenditure on goods and services of the Commonwealth Government and State authorities and transfers by these authorities to the private sector. These figures are shown in the following table, and are related to the total outlay (on all functions) by all public authorities in order to give an indication of the share of government resources devoted to education.

ALL PUBLIC AUTHORITIES: OUTLAY ON EDUCATION
(\$ million)

| 1970-71 | 1971-72 | 1972–73 | 1973–74 | 1974–75р |
|---------|--|---|---|---|
| | | | | |
| 55.3 | 63.9 | 80.5 | 112.5 | 172.1 |
| 46.4 | 54.3 | 73.4 | 92.8 | 123.1 |
| 1.1 | 1.3 | 1.3 | 2.4 | 7.7 |
| 22.0 | 25.0 | 30.1 | 32.1 | 45.1 |
| -0.5 | -0.4 | -0.5 | -0.5 | -0.2 |
| | | | | |
| 100.9 | 118.9 | 153.9 | 433.5 | 910.7 |
| 74.0 | 86.0 | 105.6 | 189.1 | 415.5 |
| | • • | • • | 0.3 | 2.4 |
| 299.4 | 348.9 | 444.2 | 862.2 | 1,676.4 |
| | 55.3 46.4 1.1 22.0 -0.5 100.9 74.0 | 55.3 63.9 46.4 54.3 1.1 1.3 22.0 25.0 -0.5 -0.4 100.9 118.9 74.0 86.0 | 55.3 63.9 80.5 46.4 54.3 73.4 1.1 1.3 1.3 22.0 25.0 30.1 -0.5 -0.4 -0.5 100.9 118.9 153.9 74.0 86.0 105.6 | 55.3 63.9 80.5 112.5 46.4 54.3 73.4 92.8 1.1 1.3 1.3 2.4 22.0 25.0 30.1 32.1 -0.5 -0.4 -0.5 -0.5 100.9 118.9 153.9 433.5 74.0 86.0 105.6 189.1 0.3 |

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ALL PUBLIC AUTHORITIES: OUTLAY ON EDUCATION—continued
(\$ million)

| | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974–75p |
|--|------------------|----------|------------------|------------------|----------|
| State authorities— | | | | | |
| Final consumption expenditure | 961.0 | 1,147.2 | 1,367.2 | 1,778.8 | 2,590.1 |
| Cash benefits to persons | 76.3 | 96.9 | 115.6 | 127.0 | 138.6 |
| Grants for private capital purposes . | 10.3 | 7.7 | 8.5 | 13.7 | 31.4 |
| Expenditure on new fixed assets | 223.7 | 260.6 | 293.2 | 345.4 | 598.7 |
| Expenditure on existing fixed assets (net). | 9.7 | 10.5 | 16.4 | 17.2 | 15.9 |
| Total State | 1,281.0 | 1,522.9 | 1,800.9 | 2,282.2 | 3,374.6 |
| Less Grants from the Commonwealth | | | | | |
| Government for educational purposes . | 175.0 | 204.9 | 259.4 | 622.5 | 1,326.1 |
| Outlay financed from States' own resources and from non-specific Commonwealth | | | | | |
| Government grants | 1,106.0 | 1,318.0 | 1,541.5 | 1,659.7 | 2,048.5 |
| - | | | | | |
| Local authorities- | | | | | |
| Final consumption expenditure | 1.2 | 1.6 | 2.0 | 2.9 | 3.9 |
| Expenditure on new fixed assets | 0.3 | 0.4 | 0.3 | 0.7 | 0.8 |
| Total local | 1.5 | 2.1 | 2.3 | 3.6 | 4.7 |
| Less Grants from Commonwealth Govern- | | | | | |
| ment for education purposes | | | | 0.3 | 2.4 |
| Outlay financed from local authorities own | 1.5 | 2.1 | 2.2 | 2.2 | 2.1 |
| resources | 1.5 | 2.1 | 2.3 | 3.3 | 2.3 |
| Total outlay on education | 1,406.9 | 1,669.0 | 1,998.0 | 2,525.2 | 3,727.2 |
| Total outlay on all purposes | 10,575.6 | 12,015.9 | 13,379.2 | 16,175.1 | 22,724.4 |
| Outlay on education as percentage of total outlay | per cent 13.3 | per cent | per cent 14.9 | per cent 15.6 | per cent |

Federal Authorities

Details of outlay on education by authorities of the Commonwealth Government are given in the following table.

FEDERAL AUTHORITIES: OUTLAY ON EDUCATION

(\$ million)

| | | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75p |
|---------------------------------|------------|--------|----|---|---|---|---------|---------|---------|---|------------|
| General administration, regulat | ion and | resear | h— | | | | | | | | |
| Department of Education— | | | | | | | 4.4 | 5.4 | 5.8 | 8.8 | 12 7 |
| Salaries etc., n.e.c | | • | • | • | • | • | 2.0 | 1.7 | 2.1 | 3.4 | 5 5 |
| Administration expenses, r | 1.e.c. | | • | | • | • | | | | | |
| Building and works, office | | | | • | • | • | 0.2 | 0.3 | 5.7 | 0.2 2.2 | 0.2 3.0 |
| Other | | • | ٠ | • | • | • | 0.5 | 0.9 | 1.1 | 2.2 | 3.0 |
| Total general administra | tion, etc. | | | | | | 7.1 | 8.4 | 14.7 | 14.5 | 21.4 |
| Transportation of students— | | | | | | | | | | | |
| School bus service— | | | | | | | | | | | |
| Australian Capital Territo | ry . | | | _ | | | 0.5 | 0.5 | 0.6 | 0.8 | 0.9 |
| Northern Territory | • | | · | | | | 0.3 | 0.3 | 0.4 | 0.4 | 0.6 |
| | • | • | • | | • | • | 0.5 | 0.5 | | • | |
| Total transportation . | | | | | | | 0.8 | 0.8 | 1.0 | 1.2 | 1.5 |
| | • | | | | | - | | | | | |

EXPENDITURE ON EDUCATION

FEDERAL AUTHORITIES: OUTLAY ON EDUCATION—continued (\$ million)

| | | | | | | (\$ mil | llion) | | | | | |
|---|-------------|---------|-------|--------|--------|---------|--------|---------------------|---------------------|---------------------|----------------------|----------------------|
| | - | | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| Primary and secondary educa | ation- | | | | | | | | | | | |
| Schools Commission | | | | | | | | • • | | | 0.5 | 2.1 |
| Education services— Australian Capital Territ | tory | | | | | | | 13.7 | 15.6 | 19.8 | 27.0 | 45.1 |
| Northern Territory. | | | | | | | | 8.1 | 12.3 | 10.0 | 15.1 | 20.8 |
| School broadcasts . Student assistance . | • | • | • | • | • | • | • | 1.0 7.0 | 1.1 7.1 | 1.2 | 1.5 11.9 | 1.9 |
| Child migrant education p | rogras | m. | : | : | : | : | • | 0.2 | 0.5 | 8.8 1.1 | 2.9 | 8.6 3.7 |
| Assistance to isolated child | lren | | | | | | | •• | • • | 2.6 | 8.2 | 9.5 |
| Grants to independent sche Australian Capital Terri | | - | | | | | | 1.9 | 2.7 | 3.0 | 3.6 | 7.8 |
| Northern Territory. | | : | : | : | : | : | : | 0.3 | 0.3 | 0.4 | 0.6 | 1.1 |
| Grants to the States- | | | | | • | | • | | | | | |
| Independent schools Government schools | • | • | | • | • | • | • | 24.3 | 29.6 6.7 | 41.0 | 63.4 66.4 | 118.4 227.3 |
| School libraries . | : | : | : | : | : | · | : | 13.3 | 9.8 | 13.3 9.7 | 14.2 | 33.9 |
| Science laboratories | • | | | | | • | | 13.1 | 10.8 | 10.0 | 9.8 | 12.1 |
| Child migrant education Other | ٠. | • | • | • | • | • | • | 1.7 | 2.8 | 3.9 | 7.0 7.9 | 11.3 42.2 |
| Other | : | : | : | : | : | : | : | | 0. i | o. i | 0.3 | 0.3 |
| Total primary and seco | ondar | v | • | | | | | 84.4 | 99.4 | 125.1 | 240.2 | 546.3 |
| Vocational Training— Canberra School of Music | | | | | | | | 0.1 | 0.1 | 0.2 | 0.9 | 1.6 |
| Canberra Technical College | ė | : | : | : | : | : | • | 0.9 | 1.2 | 1.6 | 3.3 | 5.2 |
| Darwin Community College | ge | | | | | | | | | 2.5 | 3.3 | 3.4 |
| Student assistance . | • | • | • | • | • | • | • | 1.1 | 1.0 | 1.0 | 0.5 | 0.1 |
| Grants to the States— Technical training facilit | ies | | _ | | | | | 12.5 | 7.4 | 13.0 | 18.4 | 19.9 |
| Abolition of tuition fees | | | : | · | : | : | : | | | | 10.3 | 24.6 |
| Apprenticeship training | | • | • | • | • | • | • | 14.6 | 9.8 | 18.3 | 36.6 | 0.5 |
| Total vocational traini. University education— | ng . | • | • | • | • | • | • | 14.0 | 9.0 | 10.5 | 30.0 | 5 5 .3 |
| Australian Universities Co | | sion | | | | | | 0.2 | 0.3 | 0.3 | 0.5 | 0.6 |
| Australian National Unive | rsity | • | • | • | • | • | • | 31.4 | 32.7 | 38.0 | 41.9 | 59.6 |
| Student assistance— Undergraduate . | | | _ | | | | | 22.5 | 28.7 | 37.3 | 29.9 | 39.4 |
| Postgraduate . | | | | • | : | | ÷ | 5.2 | 5.9 | 6.7 | 7.4 | 8.1 |
| Grants to Australian Nat | ional | Unive | rsity | resid | dentia | l colle | ages | 1.0 | 0.1 | • • | 0.1 | 0.1 |
| School of Public Health and sity) | u iro | picai n | иеан | cine (| syane | y Uni | ver- | 0.9 | 1.0 | 0.9 | 1.3 | 1.7 |
| Grants to the States-Univ | versiti | ies | | • | | | | 75.2 | 90.6 | 107.3 | 249.0 | 444.0 |
| Other | • | • | • | • | • | • | | 0.5 137.0 | 159.3 | 190.4 | 330.1 | 0.1 553.6 |
| Other higher education— | • | • | • | • | • | • | • | 137.0 | 139.3 | 190.4 | 330.1 | 333.0 |
| Australian Commission on | | | | | n. | | | | 0.1 | 0.4 | 0.6 | 0.8 |
| Canberra College of Adva | nced | Educa | tion | • | • | • | • | 4.9 | 6.1 | 6.3 | 10.4 0.7 | 11.5 3.2 |
| Australian Film and Telev Student assistance . | 121011 | Schoo | | : | • | : | • | 2.8 | 3.6 | 0.2 6.7 | 22.3 | 41 8 |
| Commonwealth Teaching | Servic | e scho | olars | hips | | | • | ••• | 0.1 | 0.4 | 0.7 | 1.1 |
| Grants to the States— | ducat | i | | | | | | 30.6 | 34.0 | 41.2) | | |
| Colleges of Advanced E Teacher training college | | 1011 | : | : | : | : | • | 2.5 | 11.2 | 16.4 | 164.0 | 240.0 |
| Pre-school teacher traini | ing co | | | | | - | · | 0.9 | 0.6 | 0.4 | 164.9 | 349.2 |
| Pre-school teaching scho | olarsh | ips | • | • | • | • | • | 41.7 | 55.7 | 0.1 J 71.9 | 199.6 | 407.4 |
| Total other higher edu Other education programs— | | • • | • | • | • | • | • | 41.7 | 33.7 | 71.9 | 199.0 | 407.4 |
| Aboriginal education— | | | | | | | | | | | | |
| Study grants | • | | | • | ٠ | • | • | 0.3 | 0.5 | 0.6 4.3 | 0.9 | 1.4 |
| Secondary grants . Grants to private non-p | rofit d | organi | satio | ns. | • | : | • | 2.2 | 2.5 0.4 | 0.5 | 6.1 1.2 | 7.2 3.7 |
| Grants to the States | | | | | ÷ | · | : | 0.9 | 1.2 | 2.9 | 4.4 | 4.6 |
| Other | · | | • | • | | | | 3.5 | 3.2 | 6.2 | 8.2 3.5 | 14.3 3.7 |
| Soldiers' children education Migrant education program | n scn ms | eme | • | • | • | • | • | 3.4 2.0 | 3.6 3.0 | 3.6 3.1 | 4.3 | 6.0 |
| Pre-school child care prog | rams- | | • | • | • | • | • | 2.0 | 5.0 | 5.1 | | |
| Grants to States and loc | | thorit | ies | | • | | | -'- | | | 7.0 | 40.0 |
| Other . Adult education programs | • | • | • | • | • | • | • | 0.9 | 1.1 | 1.5 | 3.3 0.2 | 8.4 1.0 |
| Other | · : | : | ÷ | : | ÷ | : | : | 0.2 | | | 1.0 | 0.5 |
| Total other programs | | | • | ٠ | | • | • | 13.7 | 15.6 | 22.7 | 40.0 | 90.9 |
| Total outlay on education of which— | | | | | • | • | | 299.9 | 348.9 | 444.2 | 862.2 | 1,676.4 |
| Current outlay . | | | | | | | | 203.6 | 238.4 | 309.1 | 641.1 | 1,213.8 |
| | | | | | | | | 95.7 | 110.5 | 135.2 | 222.1 | 462.6 |
| Capital outlay . | ٠ | • | • | • | | | | | | 0.00 | 44 000 0 | 49 0 - 4 - |
| | : | : | | · | • | | | 7,771.9 per cent | 8,629.6 per cent | 9,741.0 per cent | 11,908.9 per cent | 17,364.2 per cent |

As may be seen from the table, Commonwealth Government outlays are directed largely towards financing outlays on education by the States and the private sector. Direct expenditure by the Commonwealth Government relates mainly to the costs of administering its support programs and its own educational research activities, the provision of education services in the internal territories, expenditures of statutory bodies (i.e. the Australian National University, the Canberra College of Advanced Education, and the Australian Broadcasting Commission), expenditure on the education of Aborigines by the Northern Territory administration, and the costs of the child migrant education program.

Outlay on education in the internal territories

As mentioned previously, the Commonwealth Government is responsible for the provision of education services in the Australian Capital Territory and the Northern Territory. Details of Commonwealth Government outlay on education in the Territories are given below; further information may be found in Chapter 30, The Territories of Australia.

FEDERAL AUTHORITIES: OUTLAY ON EDUCATION IN THE INTERNAL TERRITORIES, 1974-75 (\$'000)

| Australian Capital Territory | | Northern Territory | |
|--|----------------------|---|--------------------------|
| Current outlay- | | Current outlay— | |
| Government schools— | | Government schools— | |
| Pre-school education and training . | 1,688 | Pre-school education and training . | n.a. |
| Payment to N.S.W. Department of | | Payment to S.A. Department of Edu- | II.a. |
| Education | 357 | | 494 |
| School transport | 887 | | 566 |
| School cleaning | 1,763 | School transport | 479 |
| Fuel, light, power, etc | 425 | | 315 |
| School supplies and subsidies | 636 | Fuel, light, power, etc School supplies and subsidies | 541 |
| Textbook allowances to students in | | Repairs and maintenance | 494 |
| secondary schools | 156 | Incidental and other expenditure | 1,410 |
| Repairs and maintenance | 743 | • | 1, 110 |
| Incidental and other expenditure . | 509 | Non-government schools—assistance— | |
| Non-government schools assistance— | | Approved capital programs(a). | 522 |
| Student allowances | 3,516 | Interest subsidy | 124 |
| Textbook allowances | 53 | Other assistance | 451 |
| Library grants and subsidies | 20 | Educational services—salaries, etc | 14,154 |
| Interest subsidy | 794 | Darwin Community College | 2,846 |
| Approved capital programs(a). | 3,430 | Aboriginal education | 10,309 |
| Educational services—salaries, etc. | 25,904 | Scholarships, boarding and travelling | |
| Canberra Technical College | 3,718 | allowances(b) | 45 |
| School of Music | 412 | Total | 32,750 |
| Counsellor training program | 35 | | 0 - ,, 0 0 |
| Secondary school bursaries(b) | 2 | Less Fees—technical and other edu- | 105 |
| Total | 45,048 | cation | 105 |
| Less Fees-technical and other edu- | 126 | Total current outlay | 32,645 |
| cation | 136 <i>44,912</i> | | |
| Combone College of Advanced Edu | 44,912 | | |
| Canberra College of Advanced Education | 8,019 | | |
| Total current outlay | 52,931 | | |
| • | 32,931 | Capital outlay- | |
| Capital outlay— | | Government schools— | |
| Government schools and colleges— | | Buildings and works | 5,017 |
| By National Capital Development | | Furniture and fittings | 182 |
| Commission— | /00 | Plant and equipment | 770 |
| Pre-schools | 698 | Aboriginal education | 6,265 |
| Primary schools | 5,574 | Total capital outlay | 12,235 |
| Secondary schools | 6,567 | | , |
| Canberra Technical College Other educational buildings | 1,380 568 | Total outlay | 44,880 |
| By Department of Works— | 200 | | |
| Buildings and works | 93 | | |
| Furniture and fittings | 78 7 | | |
| Plant and equipment | | | |
| Canberra College of Advanced Edu- | 1,070 | | |
| cation | 3,514 | | |
| | | | |
| Total capital outlay | , | | |
| Total outlay(c) | 73,188 | | |

⁽a) Grants for private capital purposes. (b) Not allocable. Excludes Commonwealth secondary and technical scholarships. (c) Excludes the Australian National University. Commonwealth Government payments to the University in 1974-75 amounted to \$55,838,000 for current purposes and \$2,518,000 for capital purposes.

State and local authorities

The following table shows the outlay on education by State and local authorities, financed from their own resources (including general purpose grants from the Commonwealth Government) and from Commonwealth Government grants for educational purposes.

STATE AND LOCAL AUTHORITIES: OUTLAY ON EDUCATION
(\$ million)

| | | | | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75p |
|---------------------------|---------|---------|---------|----|---------|---------|---------|---------|----------|
| Final consumption exp | enditi | ıre | | | | | | | |
| New South Wales | | | | | 351.0 | 408.5 | 476.7 | 613.7 | 900.6 |
| Victoria | | | | | 286.8 | 340.2 | 419.7 | 537.3 | 768.9 |
| Queensland . | | | | | 108.8 | 132.1 | 166.0 | 221.2 | 323.6 |
| South Australia . | | | | | 97.7 | 121.6 | 140.2 | 189.3 | 270.7 |
| Western Australia | | | | | 83.4 | 106.9 | 119.4 | 158.8 | 234.0 |
| Tasmania | | | | • | 34.5 | 39.5 | 47.2 | 61.3 | 96.2 |
| Total | | | | | 962.2 | 1,148.8 | 1,369.2 | 1,781.7 | 2,594.0 |
| Expenditure on new fix | ed as | sets— | | | | | | | |
| New South Wales | | | | | 7Ó.1 | 87.0 | 88.9 | 107.8 | 202.5 |
| Victoria | • | • | • | Ċ | 70.3 | 75.3 | 86.9 | 100.5 | 168.6 |
| Queensland | • | ÷ | • | · | 28.9 | 34.9 | 37.8 | 48.0 | 85.8 |
| South Australia . | • | • | • | • | 28.0 | 28.4 | 38.3 | 42.2 | 71.0 |
| Western Australia | • | ÷ | • | · | 18.7 | 22.8 | 25.9 | 32.3 | 52.6 |
| Tasmania | : | ÷ | · | ÷ | 8.0 | 12.7 | 15.8 | 15.4 | 19.0 |
| Total | | | | | 224.0 | 261.0 | 293.5 | 346.1 | 599.5 |
| Expenditure on existing | ı fixed | i asset | s (net) | ١. | 9.7 | 10.5 | 16.4 | 17.2 | 15.9 |
| Cash benefits to person | | | ٠, | | 76.3 | 96.9 | 115.6 | 127.0 | 138.6 |
| Grants for private capi | | | | | 10.3 | 7.7 | 8.5 | 13.7 | 31.4 |
| Total outlay on education | on . | | | | 1,282.6 | 1,525.0 | 1,803.2 | 2,285.8 | 3,379.3 |
| of which- | | | | | | | | | |
| New South Wales | | | | | 457.5 | 541.0 | 620.1 | 783.5 | 1,169.8 |
| Victoria | ÷ | | Ċ | | 384.4 | 447.2 | 548.1 | 685.4 | 994.1 |
| Oueensland . | : | ÷ | | Ċ | 154.1 | 186.1 | 226.0 | 296.0 | 444.7 |
| South Australia | • | · | | | 133.2 | 158.6 | 188.3 | 241.7 | 354.1 |
| Western Australia | : | | | | 107.7 | 136.1 | 154.0 | 198.5 | 296.9 |
| Tasmania | • | · | | | 45.8 | 55.8 | 66.7 | 80.6 | 119.7 |
| | • | • | • | • | | | , | | |

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Specific grants to the States for educational purposes

Financial assistance to the States specifically for education purposes constitutes the major item of outlay on education by the Commonwealth Government. The following table summarises the allocation of the various categories of grants to the States for recent years. Subsequent tables show the allocation of these specific purpose grants to individual States for the same period.

GRANTS TO STATES FOR EDUCATIONAL PURPOSES (\$'000)

| | | (\$'000) | | | | |
|-------------------------------------|--------|-----------|----------|---------|---------|-----------|
| - | | 1970–71 | 1971-72 | 1972–73 | 1973-74 | 1974-75 |
| GRA | ANTS F | OR CURRE | NT PURPO | SES | | |
| Schools | | 24,253 | 29,594 | 40,979 | 85,662 | 234,549 |
| Technical Education | | | | | 10,268 | 24,622 |
| Colleges of Advanced Education | | 15,743 | 18,372 | 26,655 | 124,808 | 239,249 |
| Universities | | 58,878 | 67,596 | 80,826 | 200,042 | 377,990 |
| Aboriginal Advancement | | 274 | 347 | 1,167 | 2,174 | 3,36 |
| Child Migrant Education | | 1,672 | 2,778 | 3,956 | 6,014 | 9,84 |
| Child care and pre-school education | | | | | 4,096 | 20,37 |
| Educational Research | | 96 | 236 | 275 | 406 | 658 |
| Total | | 100,916 | 118,923 | 153,858 | 433,470 | 910,657 |
| GRA | ANTS F | OR CAPITA | L PURPOS | SES | | |
| Schools | | 26,319 | 27,264 | 33,019 | 75,976 | 199,36 |
| Technical Education | | 12,535 | 7,411 | 12,976 | 18,381 | 20,37 |
| Colleges of Advanced Education | | 18,163 | 27,425 | 31,390 | 40,112 | 109,91 |
| Universities | | 16,346 | 23,002 | 26,464 | 48,966 | 65,99 |
| Aboriginal Advancement | | 672 | 867 | 1,720 | 2,218 | 1,22 |
| Child Migrant Education | | | | | 995 | 1,47 |
| Child care and pre-school education | • | | • • | | 2,416 | 17,12 |
| Total | | 74,035 | 85,969 | 105,569 | 189,064 | 415,47 |
| | T | OTAL GRA | NTS | | | |
| Schools | | 50,572 | 56,858 | 73,998 | 161,638 | 433,91 |
| Fechnical Education | | 12,535 | 7,411 | 12,976 | 28,649 | 44,99 |
| Colleges of Advanced Education | | 33,906 | 45,797 | 58,045 | 164,920 | 349,16 |
| Universities | | 75,224 | 90,598 | 107,290 | 249,008 | 443,980 |
| Aboriginal Advancement | | 946 | 1,214 | 2,887 | 4,392 | 4,59 |
| Child Migrant Education | | 1,672 | 2,778 | 3,956 | 7,009 | 11,32 |
| Child care and pre-school education | | | · | | 6,512 | 37,500 |
| Educational Research | | 96 | 236 | 275 | 406 | 658 |
| Total | | 174,951 | 204,892 | 259,427 | 622,534 | 1,326,130 |

EXPENDITURE ON EDUCATION

TOTAL GRANTS TO STATES FOR SCHOOLS (\$'000)

| | | | | | (\$'000) | | | | |
|--|-------|---------------------------------------|------|-------|---|--|---|--|--|
| | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| Current grants— | | | | | | | | | |
| New South Wales | | | | | 9,017 | 10,854 | 15,046 | 28,147 | 84,719 |
| Victoria | • | | | • | 7,832 | 9,655 | 13,337 | 29,125 | 72,112 |
| Queensland . | • | • | • | • | 3,640 | 4,472 | 6,250 | 13,578 | 35,604 |
| | • | • | • | • | | , | • | | |
| South Australia . | • | • | • | • | 1,526 | 1,889 | 2,529 | 6,464 | 19,017 |
| Western Australia | • | • | • | | 1,682 | 2,064 | 2,903 | 6,389 | 17,184 |
| Tasmania | • | • | • | • | 556 | 660 | 914 | 1,958 | 5,91 |
| Total | • | • | • | ٠ | 24,253 | 29,594 | 40,979 | 85,662 | 234,549 |
| Capital grants— | | | | | | | | | |
| New South Wales | | | | | 10,653 | 10,018 | 10,637 | 30,208 | 71,70 |
| Victoria | | | | | 6,745 | 7,587 | 9,486 | 18,011 | 58,65 |
| Queensland . | | | | _ | 3,633 | 3,483 | 4,366 | 8,990 | 27,96 |
| South Australia . | · | · | | • | 2,545 | 2,629 | 3,805 | 9,430 | 19,16 |
| | • | | • | • | | | | | |
| Western Australia Tasmania | : | | | • | 1,700 1,043 | 2,296 1,251 | 3,017 1,708 | 6,810 2,527 | 15,789 6,093 |
| | - | | | | • | ŕ | | | , |
| Total | • ' | • | • | • | 26,319 | 27,264 | 33,019 | 75,976 | 199,36 |
| Total grants— | | | | | 10.670 | 20,872 | 25 602 | 50 255 | 156 43 |
| New South Wales | • | • | • | • | 19,670 | | 25,683 | 58,355 | 156,42 |
| Victoria | • | • | • | | 14,577 | 17,242 | 22,823 | 47,136 | 130,76 |
| Queensland . | | | | | 7,273 | 7,955 | 10,616 | 22,568 | 63,57 |
| South Australia . | | | | | 4,071 | 4,518 | 6,334 | 15,894 | 38,17 |
| Western Australia | _ | _ | | | 3,382 | 4,360 | 5,920 | 13,199 | 32,97 |
| Tasmania | • | : | : | · · | 1,599 | 1,911 | 2,622 | 4,485 | 12,00 |
| Tasiliallia | - | | | | | | | | |
| Total | FAL G | RAN | TS T | O ST | 50,572 ATES FOR | 56,858 TECHNICA | 73,998 L EDUCAT | 161,638 ION | 433,91 |
| Total | FAL C | RAN | тs т | O ST | 50,572 ATES FOR (\$'000) | TECHNICA | L EDUCAT | ION | |
| Total | FAL G | :RAN | TS T | O ST | 50,572 ATES FOR | | | | |
| Total TO | FAL C | RAN | TS T | O STA | 50,572 ATES FOR (\$'000) | TECHNICA 1971–72 | L EDUCAT | ION 1973–74 | 1974-7. |
| Total | TAL G | GRAN | TS T | O ST. | 50,572 ATES FOR (\$'000) | TECHNICA | L EDUCAT | 1973–74 5,801 | 1974-7. |
| Total | FAL G | RAN | TS T | O ST. | 50,572 ATES FOR (\$'000) | TECHNICA 1971–72 | L EDUCAT | 1973–74 5,801 1,772 | 1974–7. 10,33. 6,794 |
| Total | • | • | | • | 50,572 ATES FOR (\$'000) 1970-71 | TECHNICA 1971–72 | L EDUCAT | 1973–74 5,801 | 1974–7. 10,33. 6,794 |
| Total | • | • | | • | 50,572 ATES FOR (\$'000) 1970–71 | 1971-72 | 1972–73 | 1973-74 5,801 1,772 715 | 1974-7. 10,33. 6,79- 2,26: |
| Total | | · · · · · · · · · · · · · · · · · · · | · | : | 50,572 ATES FOR (\$'000) 1970-71 | 1971-72 | 1972-73 | 1973–74 5,801 1,772 715 889 | 1974-7. 10,33 6,79 2,26; 2,63 |
| Total | • | • | | • | 50,572 ATES FOR (\$'000) 1970–71 | 1971-72 | 1972–73 | 1973-74 5,801 1,772 715 | 1974-7. 10,33 6,79 2,26 2,63 2,16 |
| Total | | · · · · · · · · · · · · · · · · · · · | | : | 50,572 ATES FOR (\$'000) 1970-71 | 1971–72 | 1972-73 | 5,801 1,772 715 889 974 117 | 1974-7. 10,33 6,79 2,26: 2,63 2,16: 420 |
| Total | | · · · · · · · · · · · · · · · · · · · | · | : | 50,572 ATES FOR (\$'000) 1970-71 | 1971–72 | 1972-73 | 5,801 1,772 715 889 974 | 1974-7. 10,33 6,79 2,26: 2,63 2,16: 420 |
| Total | | · · · · · · · · · · · · · · · · · · · | | : | 50,572 ATES FOR (\$'000) 1970-71 | 1971–72 | 1972-73 | 5,801 1,772 715 889 974 117 | 1974-7. 10,33. 6,794 2,263 2,163 420 24,62. |
| Total | | · · · · · · · · · · · · · · · · · · · | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 | 1971-72 2,416 | 1972-73 | 5,801 1,772 715 889 974 117 10,268 | 1974-7. 10,33 6,79 2,26: 2,63: 2,16: 42: 24,62. 5,85: |
| Total | | · · · · · · · · · · · · · · · · · · · | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 | 1971-72 2,416 1,500 | 1972-73 5,040 3,350 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 | 1974-7. 10,33. 6,79. 2,26: 2,63: 2,16: 42: 24,62. 5,85: 6,58: |
| Total | | · · · · · · · · · · · · · · · · · · · | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 | 1971-72 2,416 | 1972-73 | 5,801 1,772 715 889 974 117 10,268 | 1974-7. 10,33. 6,79. 2,26. 2,63. 2,16. 42. 24,62. 5,85. 6,58. 4,07. |
| Total | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 | 1971-72 2,416 1,500 | 1972-73 5,040 3,350 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 | 1974-7. 10,33. 6,79. 2,26. 2,63. 2,16. 42. 24,62. 5,85. 6,58. 4,07. |
| Total | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 | 7971-72 2,416 1,500 1,238 1,130 | 1972-73 5,040 3,350 1,910 1,130 | 1973–74 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 | 1974-7. 10,33: 6,794 2,26: 2,63: 2,16: 42: 24,62. 5,85: 6,58: 4,07: 2,800 |
| Total | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 | 1971-72 2,416 1,500 1,238 | 1972-73 5,040 3,350 1,910 | 5,801 1,772 715 889 974 117 10,268 | 1974-7. 10,33 6,794 2,266 2,636 2,166 420 24,622 5,856 6,588 4,077 2,800 58 |
| Total TO' Current grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total Capital grants— New South Wales Victoria Queensland South Australia Western Australia | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 | 7971-72 2,416 1,500 1,238 1,130 747 | 1972-73 5,040 3,350 1,910 1,130 1,166 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 | 1974-7. 10,33. 6,79. 2,26: 2,63: 2,16: 42: 24,62. 5,85: 6,58: 4,07: 2,80: 58: 47: |
| Total | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 | 7971-72 2,416 1,500 1,238 1,130 747 380 | 1972-73 5,040 3,350 1,910 1,130 1,166 380 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 | 1974-7. 10,33. 6,79. 2,26: 2,63: 2,16: 42: 24,62. 5,85: 6,58: 4,07: 2,80: 58: 47: |
| Total TO' Current grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total Capital grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total New South Wales | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 | 7971-72 2,416 1,500 1,238 1,130 747 380 | 1972-73 5,040 3,350 1,910 1,130 1,166 380 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 | 1974-7. 10,33 6,794 2,26: 2,63: 2,16: 42: 24,62. 5,85: 6,58: 4,07: 2,800 58: 47: 20,37: |
| Total TO' Current grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total Capital grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total New South Wales | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 12,535 4,846 | 7,411 2,416 | 1972-73 5,040 3,350 1,910 1,130 1,166 380 12,976 5,040 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 18,381 | 1974-7. 10,33. 6,79. 2,26: 2,63: 2,16: 42: 24,62. 5,85: 6,58: 4,07: 2,800 58: 47. 20,37: |
| Total | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 12,535 4,846 3,912 | 7,411 2,416 1,500 1,238 1,130 7,47 380 | 1972-73 5,040 3,350 1,910 1,136 380 12,976 5,040 3,350 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 18,381 | 1974-7. 10,33. 6,79. 2,26: 2,63: 2,16: 42: 24,62. 5,85: 6,58: 4,07: 2,80: 58: 47: 20,37: 16,19: 13,379 |
| Total TO Current grants— New South Wales Victoria Queensland South Australia Tasmania Total Capital grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 12,535 4,846 3,912 1,457 | 7,411 2,416 1,500 1,238 1,130 7,47 380 7,411 | 1972-73 5,040 3,350 1,910 1,130 1,166 380 12,976 5,040 3,350 1,910 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 18,381 | 1974-7. 10,33: 6,794 2,26: 2,63: 2,16: 420 24,62. 5,85: 6,58: 4,07: 2,800 58: 47: 20,37: 16,192: 13,37: 6,33: |
| Total TO' Current grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total Capital grants— New South Wales Victoria Queensland South Australia Tasmania Total | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 12,535 4,846 3,912 1,457 1,191 | 7,411 2,416 1,500 1,238 1,130 7,411 2,416 1,500 1,238 1,130 | 1972-73 5,040 3,350 1,910 1,130 1,166 380 12,976 5,040 3,350 1,910 1,130 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 18,381 | 1974-7. 10,33. 6,794 2,26: 2,633 2,16: 42: 24,62. 5,859 6,58: 4,07: 2,800 58: 47: 20,37: 16,192 13,379 6,335 5,439 |
| Total | | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 12,535 4,846 3,912 1,457 1,191 804 3804 | 7,411 2,416 1,500 1,238 1,130 7,411 2,416 1,500 1,238 1,130 7,47 | 1972-73 5,040 3,350 1,910 1,130 1,166 380 12,976 5,040 3,350 1,910 1,130 1,166,166 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 18,381 | 1974-7: 10,33: 6,794 2,262 2,639 2,168 426 24,622 5,859 6,583 4,073 2,800 583 471 20,373 |
| Total TO' Current grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania Total Capital grants— New South Wales Victoria Queensland South Australia Tasmania Total | : | | : | 50,572 ATES FOR (\$'000) 1970-71 4,846 3,912 1,457 1,191 804 325 12,535 4,846 3,912 1,457 1,191 | 7,411 2,416 1,500 1,238 1,130 7,411 2,416 1,500 1,238 1,130 | 1972-73 5,040 3,350 1,910 1,130 1,166 380 12,976 5,040 3,350 1,910 1,130 | 5,801 1,772 715 889 974 117 10,268 6,873 5,500 1,945 2,063 1,311 689 18,381 | 1974-7 10,33 6,79 2,26 2,63 2,16 42 24,62 5,85 6,58 4,07 2,80 58 47 20,37 16,19 13,37 6,33 5,43 |

12,535

7,411

12,976

28,649

44,997

Total . .

682 EDUCATION

Total .

TOTAL GRANTS TO STATES FOR COLLEGES OF ADVANCED EDUCATION AND TEACHERS COLLEGES

(\$'000)

| | | | | | (\$'000) | | | | |
|--|-------|-------|------|-------|--|---|---|--|--|
| | - | - | | | 1970–71 | 1971-72 | 1972–73 | 1973–74 | 1974–7 |
| Current grants— | | | | | | | | | |
| New South Wales | | | | | 3,478 | 3,713 | 5,525 | 28,935 | 62,12 |
| Victoria | | | | | 6,191 | 7,341 | 10,443 | 46,711 | 86,119 |
| Oueensland . | | | | | 1,567 | 1,860 | 2,906 | 14,438 | 27,230 |
| South Australia . | • | : | · | · | 1,420 | 1,651 | 2,638 | 13,518 | 24,53 |
| Western Australia | • | • | • | • | 2,333 | 2,920 | 4,015 | 17,247 | 32,359 |
| Tasmania | : | : | : | • | 754 | 887 | 1,128 | 3,959 | 6,888 |
| Total | _ | | | | 15,743 | 18,372 | 26,655 | 124,808 | 239,24 |
| Capital grants— | - | • | - | - | , | , | , | , | , |
| New South Wales | | | | | 4,639 | 7,381 | 9,691 | 7,644 | 41,19 |
| Victoria | • | • | • | • | 6,153 | 8,330 | 9,275 | 13,680 | 32,45 |
| Queensland . | • | • | • | • | 1,878 | 3,776 | - , | • | |
| | • | • | • | • | | | 3,806 | 5,078 | 13,438 |
| South Australia | • | • | • | • | 2,973 | 2,872 | 3,639 | 6,196 | 12,579 |
| Western Australia | • | • | • | • | 1,906 | 3,031 | 3,554 | 7,222 | 7,28 |
| Tasmania | • | • | • | • | 614 | 2,035 | 1,425 | 292 | 2,969 |
| Total | • | • | • | | 18,163 | 27,425 | 31,390 | 40,112 | 109,916 |
| Total grants— | | | | | | | | | |
| New South Wales | | | | | 8,117 | 11,094 | 15,216 | 36,579 | 103,319 |
| Victoria | | | | | 12,344 | 15,671 | 19,718 | 60,391 | 118,57 |
| Queensland . | | | | | 3,445 | 5,636 | 6,712 | 19,516 | 40,668 |
| South Australia . | • | • | | • | 4,393 | 4,523 | 6,277 | 19,714 | 37,110 |
| Western Australia | • | • | • | • | 4,239 | 5,951 | 7,569 | 24,469 | 39,640 |
| Tasmania | • | • | • | • | 1,368 | 2,922 | 2,553 | 4,251 | 9,857 |
| | • | • | • | • | | • | | • | - |
| Total | | | | | 33,906 | 45,797 | 58,045 | 164,920 | 349,165 |
| | TO | TAL (| GRAN | TS 7 | TO STATES | | | | |
| | то | FAL (| GRAN | TS 7 | O STATES (\$'000) | FOR UNIV | ERSITIES | | 1074_74 |
| | то | FAL (| GRAN | TS T | TO STATES | | | 1973–74 | 1974–75 |
| Current grants— | TO | ΓAL (| GRAN | TS T | (\$'000) | FOR UNIV | 1972-73 | 1973–74 | |
| Current grants— New South Wales | TO | ΓAL (| GRAN | NTS 7 | 70 STATES (\$'000) 1970-71 23,594 | FOR UNIV | 1972–73 32,155 | 1973–74 79,572 | 149,997 |
| Current grants— New South Wales Victoria | TO' | : | | NTS 7 | 70 STATES (\$'000) 1970-71 23,594 16,238 | 1971-72 27,223 18,586 | 7972-73 32,155 21,896 | 79,572 53,468 | 149,997 99,798 |
| Current grants— New South Wales Victoria Queensland | . TO' | ΓAL (| GRAN | TSTN | 70 STATES (\$'000) 1970-71 23,594 16,238 7,517 | 1971-72 27,223 18,586 8,412 | 7ERSITIES 1972–73 32,155 21,896 10,664 | 79,572 53,468 26,169 | 149,997 99,798 49,876 |
| Current grants— New South Wales Victoria Queensland South Australia | | : | | | 23,594 16,238 7,517 5,811 | 1971-72 27,223 18,586 8,412 6,676 | 32,155 21,896 10,664 7,898 | 79,572 53,468 26,169 19,808 | 149,997 99,798 49,876 38,067 |
| Current grants— New South Wales Victoria Queensland | TO' | : | | NTS T | 70 STATES (\$'000) 1970-71 23,594 16,238 7,517 | 1971-72 27,223 18,586 8,412 | 7ERSITIES 1972–73 32,155 21,896 10,664 | 79,572 53,468 26,169 | 149,997 99,798 49,876 38,067 |
| Current grants— New South Wales Victoria Queensland South Australia | | : | | | 23,594 16,238 7,517 5,811 | 1971-72 27,223 18,586 8,412 6,676 | 32,155 21,896 10,664 7,898 | 79,572 53,468 26,169 19,808 | 149,997 99,798 49,876 38,067 27,978 |
| Current grants— New South Wales Victoria Queensland South Australia Western Australia | | · : | | | 23,594 16,238 7,517 5,811 3,900 | 1971-72 27,223 18,586 8,412 6,676 4,594 | 32,155 21,896 10,664 7,898 5,683 | 79,572 53,468 26,169 19,808 14,610 | 149,997 99,798 49,876 38,067 27,978 12,274 |
| Current grants— New South Wales Victoria Queensland South Australia Western Australia Tasmania | | · : | | | 70 STATES (\$'000) 1970-71 23,594 16,238 7,517 5,811 3,900 1,818 | 27,223 18,586 8,412 6,676 4,594 2,105 | 32,155 21,896 10,664 7,898 5,683 2,530 | 79,572 53,468 26,169 19,808 14,610 6,415 | 149,997 99,798 49,876 38,067 27,978 12,274 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania | | · : | | | 70 STATES (\$'000) 1970-71 23,594 16,238 7,517 5,811 3,900 1,818 | 27,223 18,586 8,412 6,676 4,594 2,105 | 32,155 21,896 10,664 7,898 5,683 2,530 | 79,572 53,468 26,169 19,808 14,610 6,415 | 149,997 99,798 49,876 38,067 27,978 12,274 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 | 27,223 18,586 8,412 6,676 4,594 2,105 67,596 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria | | · : | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 | 27,223 18,586 8,412 6,676 4,594 2,105 67,596 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia . | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia . Western Australia | | | | | 70 STATES (\$'000) 1970-71 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia . | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia . Western Australia | . TO' | | | | 70 STATES (\$'000) 1970-71 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 1,279 |
| Current grants— New South Wales Victoria Queensland . South Australia . Total . Capital grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total Total | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 16,346 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 48,966 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 1,279 65,990 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 | 7971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 36,905 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 42,677 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,320 7,714 1,279 65,990 |
| Current grants— New South Wales Victoria Queensland . South Australia . Total . Capital grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total Total | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 16,346 27,644 | 7971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 36,905 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 42,677 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 48,966 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 1,279 65,990 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Capital grants— New South Wales Victoria Queensland . South Australia Tasmania Total Total Total grants— New South Wales Victoria | . TO' | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 16,346 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 36,905 25,255 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 42,677 29,223 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 48,966 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,714 1,279 65,990 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia Tasmania Total Total grants— New South Wales Victoria Queensland | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 16,346 27,644 22,228 10,641 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 36,905 25,255 11,009 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 42,677 29,223 13,209 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 48,966 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 65,990 172,523 117,128 59,697 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia Tasmania Total Total grants— New South Wales Victoria Queensland . South Australia Tasmania | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 16,346 27,644 22,228 10,641 8,180 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 36,905 25,255 11,009 8,494 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 42,677 29,223 13,209 10,595 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 48,966 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 1,279 65,990 172,523 117,128 59,697 45,387 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia Tasmania Total . Total grants— New South Wales Victoria Queensland . South Australia Tasmania Total . | . TO' | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 16,346 27,644 22,228 10,641 8,180 4,284 | 771-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 36,905 25,255 11,009 8,494 6,165 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 42,677 29,223 13,209 10,595 8,214 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 48,966 96,461 67,596 31,793 26,858 19,191 | 1974–75 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 1,279 65,990 172,523 117,128 59,697 45,387 35,692 |
| Current grants— New South Wales Victoria Queensland . South Australia . Western Australia Tasmania Total . Capital grants— New South Wales Victoria Queensland . South Australia Tasmania Total Total grants— New South Wales Victoria Queensland . South Australia Tasmania | | | | | 23,594 16,238 7,517 5,811 3,900 1,818 58,878 4,050 5,990 3,124 2,369 384 429 16,346 27,644 22,228 10,641 8,180 | 1971-72 27,223 18,586 8,412 6,676 4,594 2,105 67,596 9,682 6,669 2,597 1,818 1,571 665 23,002 36,905 25,255 11,009 8,494 | 32,155 21,896 10,664 7,898 5,683 2,530 80,826 10,522 7,327 2,545 2,697 2,531 842 26,464 42,677 29,223 13,209 10,595 | 79,572 53,468 26,169 19,808 14,610 6,415 200,042 16,889 14,128 5,624 7,050 4,581 694 48,966 | 149,997 99,798 49,876 38,067 27,978 12,274 377,990 22,526 17,330 9,821 7,320 7,714 1,279 65,990 172,523 117,128 59,697 45,387 |

75,224

90,598

107,290

249,008

443,980

TOTAL GRANTS TO STATES FOR EDUCATIONAL ADVANCEMENT OF ABORIGINES (\$'000)

| | | | 1970–71 | 1971-72 | 1972-73 | 1973–74 | 1974–75 |
|-------------------|--|---|---------|---------|---------|---------|---------|
| Current payments— | | | | | | | |
| New South Wales | | | 135 | 184 | 229 | 482 | 546 |
| Victoria | | | 65 | 83 | 167 | 275 | 262 |
| Queensland . | | | 13 | | 293 | 193 | 361 |
| South Australia . | | | 28 | 49 | 279 | 489 | 614 |
| Western Australia | | | 26 | 26 | 193 | 732 | 1,582 |
| Tasmania | | | 7 | . 5 | 6 | 4 | 3 |
| Total | | | 274 | 347 | 1,167 | 2,174 | 3,367 |
| Capital payments— | | | | | | | |
| New South Wales | | | 11 | 20 | 98 | 101 | |
| Victoria | | | | | 60 | | 67 |
| Queensland . | | | 327 | 441 | 981 | . 988 | 249 |
| South Australia . | | | 84 | 116 | 156 | 625 | 108 |
| Western Australia | | | 250 | 290 | 425 | 505 | 799 |
| Tasmania | | | | | | | |
| Total | | | 672 | 867 | 1,720 | 2,218 | 1,224 |
| Total grants— | | | | | | | |
| New South Wales | | | 146 | 204 | 327 | 583 | 546 |
| Victoria | | | 65 | 83 | 227 | 275 | 329 |
| Queensland . | | | 340 | 441 | 1,274 | 1,181 | 610 |
| South Australia . | | | 112 | 165 | 435 | 1,114 | 722 |
| Western Australia | | | 276 | 316 | 618 | 1,237 | 2,381 |
| Tasmania | | | 7 | 5 | 6 | 4 | 3 |
| Total | | • | 946 | 1,214 | 2,887 | 4,392 | 4,591 |

TOTAL GRANTS TO STATES FOR CHILD MIGRANT EDUCATION (\$'000)

| | | _ | | | 1970–71 | 1971–72 | 1972–73 | 1973–74 | 1974–75 |
|-------------------|---|---|---|---|---------|---------|---------|---------|---------|
| Current grants— | | | | | - | | | | |
| New South Wales | | | | | 780 | 1,191 | 1,521 | 2,238 | 3,890 |
| Victoria | | | | | 667 | 1,158 | 1,819 | 2,732 | 4,482 |
| Queensland . | | | | | 57 | 81 | 98 | 165 | 255 |
| South Australia . | | | | | 87 | 169 | 326 | 587 | 810 |
| Western Australia | | | | | 62 | 150 | 138 | 157 | 229 |
| Tasmania | | | • | • | 20 | 28 | 53 | 135 | 179 |
| Total | | • | | | 1,672 | 2,778 | 3,956 | 6,014 | 9,845 |
| Capital Grants— | | | | | | | | | |
| New South Wales | | | | | | | | 90 | 475 |
| Victoria | | | | | | | | 550 | 709 |
| Queensland . | | | | | | | | 50 | 106 |
| South Australia . | | | | | | | | 165 | 92 |
| Western Australia | | | | | | | | 100 | 89 |
| Tasmania | • | • | • | • | • • | • • | • • | 40 | 6 |
| Total | | • | | • | | • • | | 995 | 1,477 |
| Total grants— | | | | | | | | | |
| New South Wales | | | | | 780 | 1,191 | 1,521 | 2,328 | 4,365 |
| Victoria | | | | | 667 | 1,158 | 1,819 | 3,282 | 5,191 |
| Queensland . | | | | | 57 | 81 | 98 | 215 | 361 |
| South Australia . | | | | | 87 | 169 | 326 | 752 | 902 |
| Western Australia | | | | | 62 | 150 | 138 | 257 | 318 |
| Tasmania | | • | • | | 20 | 28 | 53 | 175 | 185 |
| Total | | | | | 1,672 | 2,778 | 3,956 | 7,009 | 11,322 |

TOTAL GRANTS TO STATES FOR RECURRENT EXPENDITURE ON EDUCATIONAL RESEARCH

(\$'000)

| | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-------------------|------|------|---------|---------|---------|---------|---------|
| Current grants— | | | | | | | |
| New South Wales | | | 28 | 81 | 91 | 97 | 145 |
| Victoria | | | 32 | 81 | 87 | 142 | 187 |
| Oueensland . | | | 18 | 59 | 60 | 109 | 219 |
| South Australia . | | | 10 | 8 | 13 | 18 | 60 |
| Western Australia | | | 8 | 7 | 17 | 26 | 28 |
| Tasmania | | | | | 7 | 14 | 19 |
| Total | | • | 96 | 236 | 275 | 406 | 658 |

TOTAL GRANTS TO STATES(a) FOR CHILD CARE AND PRE-SCHOOL EDUCATION (\$'000)

| | | | | | | | | | 1973–74 | 1974-75 |
|-------------------|---|---|---|---|---|---|---|---|---------|---------|
| Current grants— | | | | | | - | | | · | |
| New South Wales | | | | | | | | | 1,281 | 5,417 |
| Victoria | | | | | | | | | 1,226 | 6,660 |
| Queensland . | | | | | | | | | 436 | 1,734 |
| South Australia | | | | | | | | | 690 | 3,233 |
| Western Australia | | | | | | | | | 385 | 2,316 |
| Tasmania . | • | | | • | • | | | | 78 | 1,017 |
| Total . | • | | | | | | | | 4,096 | 20,377 |
| Capital grants— | | | | | | | | | | |
| New South Wales | | | | | | | | | 160 | 4,819 |
| Victoria | | · | | | | | · | | 288 | 2,637 |
| Oueensland . | | | | | | | | | 1,003 | 3,806 |
| South Australia | | | | | | | | | 514 | 2,773 |
| Western Australia | | | | | | | | | 166 | 1,911 |
| Tasmania . | • | | | | • | | | | 285 | 1,177 |
| Total . | • | • | | | | | | | 2,416 | 17,123 |
| Total grants | | | | | | | | | | |
| New South Wales | | | | | | | | | 1,441 | 10,236 |
| Victoria | | | | | | | | | 1,514 | 9,297 |
| Queensland . | | | | | | | | | 1,439 | 5,540 |
| South Australia | | | | | | | | | 1,204 | 6,006 |
| Western Australia | | | | | | | | | 551 | 4,227 |
| Tasmania . | ٠ | | • | ٠ | • | | • | • | 363 | 2,194 |
| Total . | | | | | | | | | 6,512 | 37,500 |

⁽a) There were no grants to the States for this purpose prior to 1973-74.

CHAPTER 20

EMPLOYMENT AND UNEMPLOYMENT

Further detail on subjects dealt with in this chapter is contained in the Labour Report (6.7) and other publications of the ABS. For subjects relating to population censuses reference should be made to the series of mimeographed and printed publications listed in the Publications of the Australian Bureau of Statistics (1.8). Detailed information on the labour force and on employment and unemployment is contained in mimeographed bulletins The Labour Force (6.22, annual and 6.20, quarterly) and Employment and Unemployment (6.4, monthly). Current information is also available in the Monthly Review of Business Statistics (1.4) and the Digest of Current Economic Statistics (1.5). Preliminary estimates of unemployment and of the labour force are issued quarterly in Unemployment (6.35) and The Labour Force (6.32) respectively, and preliminary employment estimates are issued in a monthly statement Employed Wage and Salary Earners (6.12).

THE LABOUR FORCE

This chapter contains a number of series relating to the labour force and its components. The labour force comprises two categories of persons: those who are employed and those who are unemployed. In the first category are included employers, self-employed persons, wage and salary earners, and unpaid helpers. Comprehensive details for each State and Territory and for Australia as a whole in respect of persons in the labour force, classified according to industry, occupation and occupational status (i.e. whether employers, self-employed persons, wage and salary earners or unpaid helpers) and personal characteristics such as age, sex, marital status and birthplace, are obtained only at a general census of population. Information about the labour force questions in the population census of June 1971 and a table showing the industry and occupational status of the labour force are given on this and the following four pages.

In the periods between population censuses, estimates of the labour force for the whole of Australia are obtained through the population survey, which is carried out by means of personal interviews at a sample of households throughout Australia in February, May, August and November each year (see pages 689-702). The survey provides, in addition to particulars of the demographic composition of the labour force, broad estimates of occupational status, occupation, industry and hours of work.

Detailed industry estimates for each State and Territory are obtained only in respect of wage and salary earners, through a monthly collection from employers. These estimates, which exclude employees in agriculture and private households employing staff, are based on benchmarks established by analysing data from the 1971 population census and other relevant sources, such as special returns from government bodies and the Bureau's economic censuses and surveys. Further information about estimates of employed wage and salary earners, and in particular the reason for differences between estimates and census data, is given on pages 717–18.

The population census

General

For the 1971 Census of Population and Housing the term 'labour force' is used in place of 'work force' in conformity with the Bureau's quarterly population survey and with international usage.

The labour force is defined as those persons aged 15 years and over who answered 'yes' to any of the following questions on the 1971 Census schedule:

- (a) Did this person have a full or part-time job, or business or farm of any kind last week?
- (b) Did this person do any work at all last week for payment or profit?
- (c) Was this person temporarily laid off by his employer without pay for the WHOLE of last week?
- (d) Did this person look for work last week?

Thus the labour force comprises those persons who worked, those who had a job from which they were temporarily absent, those who were temporarily laid off without pay for the whole of the reference week and those who did not work, did not have a job and were actively looking for work.

Persons helping but not receiving wages or salary who usually worked less than 15 hours a week are excluded from the labour force. Bonded trainees (including trainee teachers) and cadets engaged in full-time study at educational institutions are also excluded, even though such institutions were conducted by their employer.

The unemployed members of the labour force are those persons who answered 'No' to questions (a) and (b) and 'Yes' to question (d) and those who answered 'Yes' to question (a), 'No' to question (b) and 'Yes' to question (c). Thus the unemployed consist of those who did no work during the reference week and either looked for work (having no job) or were temporarily laid off from a job.

This approach conforms closely to the recommendations of the Eighth International Conference of Labour Statisticians held in Geneva in 1954 and to the approach used at the 1966 Census.

According to the definition any labour force activity during the previous week, however little, results in the person being counted in the labour force.

Thus many persons whose main activity is not a labour force one (e.g. housewife, full-time student) are drawn into the labour force by virtue of part-time or occasional labour force activity in the previous week. Answers to the questions on usual major activity indicate that there were substantially more of such persons at the Census of 1971 than at the Census of 1966 and that they were predominantly females.

On the other hand, the definition excludes persons who may frequently or usually participate in the labour force but who in the previous week happened to have withdrawn from the labour force. Answers to the question on usual major activity indicate that there were substantially more of such persons at the 1971 Census than at the 1966 Census, especially among males.

A similar definition of the labour force is used in the quarterly population sample survey conducted by the Bureau by the method of personal interview. This survey is used to measure changes in the labour force from quarter to quarter in the intercensal period.

Evidence from post-enumeration surveys and pilot tests indicates that the personal interview approach tends to identify a larger number of persons as in the labour force than does the completion of the census questionnaire by the householder. This tendency has increased between the 1966 and 1971 Censuses.

The above considerations should be borne in mind if comparisons of the total labour force or labour force participation rates are made between the 1966 and 1971 Censuses, or between the 1971 Census and the 1971 labour force quarterly estimates, or if the 1971 Census figures for wage and salary earners are compared with estimates of employed wage and salary earners shown on pages 718-21.

Occupational status, employment status and labour force status

At the 1971 Census the terms occupational status, employment status and labour force status were used, and the relationship between these terms is illustrated by the following classifications.

| Occupational status | _ | | Employment status | Labour force status |
|---------------------|---------------|----------|---|---------------------|
| Employer | · · | ;} ;} | Employed Unemployed Not in the labour force | In the labour force |

Prior to the 1971 Census unemployed persons were classified according to their last job held. For the 1971 Census however, details of occupation and industry were sought only in respect of *employed* persons.

Occupation

Occupation is defined as the type of work performed by an employed person and should not be confused with the type of productive activity, business or service carried out by the establishment in which a person works, e.g. a carpenter employed by a steel-making establishment would have the occupation of 'carpenter' and industry 'steel manufacture'; an electrician working at an oil refinery would have the occupation of 'electrician' but his industry would be that of 'oil refining' (see Industry).

In accordance with the International Standard Classifications of Occupations the structure of the Australian classification used for the 1971 and previous censuses is based primarily on the nature of the work done. The 1971 classification was prepared from the International Standard Classification of Occupations 1958 (revised 1966). The changes in the revised classification were given careful consideration in the preparation of the 1971 Australian classification. A number of new entries have been created to maintain convertibility to the international classification and others created to give more precise codes in certain occupation groups.

Industry

Industry is defined as the branch of productive activity, business or service carried out by the establishment in which a person is employed.

For the 1971 Census the classification of industry was based on the Australian Standard Industrial Classification Preliminary Edition (ASIC). For the purposes of the population census an 'undefined' category was added, where appropriate, to individual divisions, subdivisions and groups of the classification to facilitate the coding of imprecise or generalised descriptions of industrial activities on the census schedules.

At the 1966 and previous censuses, industry was determined from the respondent's own stated description of the 'kind of industry, business or service' in which he worked. With the adoption of ASIC for the 1971 Census comparability with previous censuses is greatly impaired, not only because of changes in the classification itself but also because in 1971 the industry coding in general was not determined from the stated description. Instead the name and address of the establishment at which the respondent worked, in general, provided the industry code for employees of that establishment. However, in a number of cases, owing to deficient replies concerning name and address of employer or because the establishment had not been pre-coded for industry, recourse still had to be made in coding to the respondent's own description of the industry in which he worked.

EMPLOYED POPULATION(a), INDUSTRY BY OCCUPATIONAL STATUS AUSTRALIA, CENSUS 30 JUNE 1971

| | Occupation | ral status | | | | |
|--|------------------|-------------------|------------------------------------|--------------------|--------------------|--------------------------------------|
| Industry (division) | Employer | Self- employed | Employee (on wage or salary) | Helper (unpaid) | Total | Proportion of total (per cent) |
| | MALES | } | | | | _ |
| Agriculture, forestry, fishing, and hunting | 52,681 | 139,286 | 120,951 | 5,300 | 318,218 | 8.87 |
| Mining | 436 | 1,566 | 68,349 | 96 | 70,447 | 1.96 |
| Manufacturing | 14,818 | 11,315 | 876,910 | 231 | 903,274 | 25.19 |
| Electricity, gas and water | 36 | 28 | 83,685 | 1 194 | 83,750 | 2.34 |
| Construction | 31,074 62,243 | 40,516 48,403 | 320,024 489,315 | 750 | 391,808 600,711 | 10.92 16.73 |
| Transport and storage | 10,025 | 24,111 | 204,131 | 132 | 238,399 | 6.6 |
| Communication | 10,023 | 102 | 78,184 | 132 | 78,316 | 2.18 |
| Finance, insurance, real estate and business services. | 18,263 | 12,200 | 174,766 | 190 | 205,419 | 5.73 |
| Public administration and defence | 10,200 | , | 214,219 | | 214,219 | 5.97 |
| Community services | 11,526 | 3,350 | 207,249 | 1,331 | 223,456 | 6.23 |
| Entertainment, recreation, restaurants, hotels and | - | | | | | |
| personal services | 14,218 | 11,717 | 83,231 | 304 | 109,470 | 3.0 |
| Other and not stated | 2,443 | 7,828 | 137,658 | 1,110 | 149,039 | 4.16 |
| Total males employed | 217,792 | 300,422 | 3,058,672 | 9,640 | 3,586,526 | 100.00 |
| | FEMALE | ES. | | | | |
| Agriculture, forestry, fishing, and hunting | 11,888 | 27,182 | 19,916 | 9,203 | 68,189 | 4.12 |
| Mining | 52 | 84 | 5,416 | 24 | 5,576 | 0.34 |
| Manufacturing | 3,657 | 3,846 | 304,308 | 533 | 312,344 | 18.89 |
| Electricity, gas and water | 7 | 4 | 7,490 | 1 | 7,502 | 0.4 |
| Construction | 2,779 | 1,564 25,954 | 15,575 333,214 | 503 | 20,421 387,377 | 1.2: 23.4: |
| Wholesale and retail trade | 24,879 1,413 | 1,790 | 29,806 | 3,330 305 | 33,314 | 2.0 |
| Communication | 1,413 | 81 | 25,068 | 303 | 25,169 | 1.5 |
| Finance, insurance, real estate and business services. | 2,058 | 3,733 | 151,897 | 311 | 157,999 | 9.5 |
| Public administration and defence | 2,000 | | 68,933 | | 68,933 | 4.1 |
| Community services | 2,014 | 4,536 | 330,936 | 3,707 | 341,193 | 20.63 |
| Entertainment, recreation, restaurants, hotels and | | | | | | |
| personal services | 10,391 | 7,110 | 139,280 | 1,260 | 158,041 | 9.5 |
| Other and not stated | 491 | 1,753 | 62,459 | 3,141 | 67,844 | 4.10 |
| Total females employed | 59,646 | 77,637 | 1,494,298 | 22,321 | 1,653,902 | 100.00 |
| | PERSON | s | | | | |
| Agriculture, forestry, fishing, and hunting | 64,569 | 166,468 | 140,867 | 14,503 | 386,407 | 7.37 |
| Mining | 488 | 1,650 | 73,765 | 120 | 76,023 | 1.4 |
| Manufacturing | 18,475 | 15,161 | 1,181,218 | 764 | 1,215,618 | 23.20 |
| Electricity, gas and water | 43 | 42.090 | 91,175 | 607 | 91,252 | 1.74 |
| Construction | 33,853 87,122 | 42,080 74,357 | 335,599 822,529 | 697 4,080 | 412,229 988,088 | 7.8° 18.8 |
| Transport and storage | 11,438 | 25,901 | 233,937 | 4,080 | 271,713 | 5.18 |
| Communication | 46 | 183 | 103,252 | 437 | 103,485 | 1.9 |
| | 20,321 | 15,933 | 326,663 | 50 i | 363,418 | 6.9 |
| Finance, insurance, real estate and business services. | ., | | 283,152 | | 283,152 | 5.40 |
| | | | 538,185 | 5,038 | 564,649 | 10.73 |
| Public administration and defence | 13,540 | 7,886 | 230,103 | 2,030 | 207,072 | |
| Public administration and defence. Community services Entertainment, recreation, restaurants, hotels and | • | | - | • | , | |
| Public administration and defence. Community services Entertainment, recreation, restaurants, hotels and personal services | 24,609 | 18,827 | 222,511 | 1,564 | 267,511 | 5.10 |
| Community services | • | | - | • | , | |

⁽a) Persons who, during the week prior to the census were unemployed or who were classified as 'not in the labour force' are not included in this table.

EMPLOYED POPULATION(a), BY OCCUPATION, AUSTRALIA: CENSUS 30 JUNE 1971

| Occupation (major group) | Males | Females | Persons | Proportion of total (per cent) |
|---|-----------|-----------|-----------|--------------------------------------|
| Professional, technical and related workers | 309,329 | 227,179 | 536,508 | 10.24 |
| Administrative, executive and managerial workers. | 306,842 | 42,032 | 348,874 | 6.66 |
| Clerical workers | 300,712 | 529,696 | 830,408 | 15.85 |
| Sales workers | 217,991 | 203,895 | 421,886 | 8.05 |
| Farmers, fishermen, hunters, timber getters and related workers | 341,128 | 62,778 | 403,906 | 7.71 |
| Miners, quarrymen and related workers | 33,797 | 90 | 33.887 | 0.65 |
| Workers in transport and communication | 251,033 | 39,757 | 290,790 | 5.55 |
| Tradesmen, production-process workers and | • | | , | |
| labourers, n.e.c. | 1,456,850 | 223,841 | 1,680,691 | 32.07 |
| Service, sport and recreation workers | 144,371 | 243,191 | 387.562 | 7.39 |
| Members of armed services | 62,605 | 2,591 | 65,196 | 1.24 |
| Occupation inadequately described or not stated . | 161,868 | 78,852 | 240,720 | 4.59 |
| Total employed | 3,586,526 | 1,653,902 | 5,240,428 | 100.00 |

⁽a) Persons who, during the week prior to the census, were unemployed or who were classified as 'not in the labour force' are not included in this table.

The population survey

The population survey is the general title given to the household sample survey carried out in February, May, August and November of each year in all States and Territories. Emphasis in the survey is placed on the collection of data on demographic and labour force characteristics, the principal survey component being referred to as the labour force survey. The remaining part of the population survey consists of supplementary collections which are carried out from time to time in conjunction with the labour force survey.

The survey is based on a multi-stage area sample of private dwellings (about 30,000 houses, flats, etc.) and non-private dwellings (hotels, motels, etc.), and covers about two-thirds of one per cent of the population of Australia. The information is obtained each quarter from the occupants of selected dwellings by carefully chosen and specially trained interviewers. The interviews are carried out during a period of four weeks, so that there are four survey weeks in each of the months to which the survey relates. These four survey weeks are chosen so as to fall within the limits of the calendar month or with minimum encroachment into the adjacent months.

A description of the labour force survey and a selection of principal statistics obtained from it are given in this section. Data from supplementary surveys are published in mimeographed bulletins which are available on request. Results of the principal surveys held in the past have been published in earlier issues of the Year Book. Supplementary surveys for which results are contained in this chapter are leavers from schools, universities or other educational institutions, May 1975; multiple jobholding, August 1975; labour force experience during 1975; labour mobility, February 1976; frequency of pay, August 1974; annual leave, August 1974; school leavers, 1970 to 1974, employment status in May 1975 and persons not in the labour force, November 1975. Summaries of results of a survey of income distribution, 1973–74, conducted in November 1974 and of a survey of weekly earnings of employees conducted in August 1975 are shown in Chapter 10, Labour, Wages and Prices. A survey of journey to work and journey to school conducted in August 1974 is referred to in Chapter 12, Transport and Communication. Reference is also made to a survey of chronic illnesses, injuries and impairments conducted in May 1974 in Chapter 14, Public Health.

The labour force survey

The first Australia-wide labour force survey was carried out in February 1964. Estimates are published quarterly in *The Labour Force* (6.20) and in the preliminary statements *The Labour Force* (6.32) and *Unemployment* (6.35). More comprehensive statistics have been published in special bulletins entitled *The Labour Force* (6.22), covering the period 1964 to 1968, and generally single years thereafter.

The survey includes all persons fifteen years of age and over (including full-blood Aborigines), except members of the permanent armed forces and certain diplomatic personnel customarily excluded from census and estimated populations.

The classification used in the survey conforms closely to that recommended by the Eighth International Conference of Labour Statisticians held in Geneva in 1954. In this classification, the labour force category to which an individual is assigned depends on his actual activity (i.e. whether working, looking for work, etc.) during a specified week, known as 'survey week,' which is the week immediately preceding that in which the interview takes place. The interviews are carried out during a period of four weeks, so that there are four survey weeks in each of the months to which the survey relates. These survey weeks generally fall within the limits of the calendar month.

A person's activity during survey week is determined from answers given to a set of questions specially designed for this purpose. The principal categories appearing in the tables in this section are the employed and unemployed, who together constitute the labour force, and the remainder, who are classified as not in the labour force. Definitions of these categories are as follows:

- (i) The labour force comprises all persons who, during survey week, were employed or unemployed as defined in (ii) and (iii) below.
- (ii) Employed persons comprise all those who, during survey week,
 - (a) did any work for pay, profit, commission or payment in kind, in a job or business, or on a farm (including employees, employers and self-employed persons), or
 - (b) worked fifteeen hours or more without pay in a family business (or farm), or
 - (c) had a job, business or farm, but were not at work because of illness, accident, leave, holiday, production hold-up due to bad weather, plant breakdown, etc., or because they were on strike.

A person who had a job but was temporarily laid off by his employer for the whole week without pay is excluded, and is classified in the tables as unemployed. A person who did some work during the week, however, before he either lost his job or was laid off, is classified as employed. A person who held more than one job is counted only once, in the job at which he worked most hours during survey week.

Previously, unemployed persons comprised all those who, during survey week, did no work at all, and who either,

- (a) did not have a job or business and were actively looking for full-time or part-time work (including those who stated that they would have looked for work if they had not been temporarily ill or believed no work was available, or had not already made definite arrangements to start work in a new job after survey week); or
- (b) were laid off from their jobs without pay for the whole week.
- (iii) Unemployed persons, for May 1976, comprise all those who either,
 - (a) during the survey week did not work and did not have a job, but could have taken one had it been available, and had been looking for full-time or part-time work in the four weeks up to and including the survey week (including persons who would have been prevented from taking a job in the survey week by their own temporary illness or injury, or by their having made arrangements to start after the survey week in a new job in which they would have preferred to start in the survey week); or
 - (b) were waiting to be called back to a job from which they had been temporarily stood down without pay for four weeks or less (including the whole of the survey week).

Estimates for May 1976 on pages 692 to 702 are based on the revised definitions of unemployed, labour force and not in labour force. For further details see the May issue of The Labour Force (6.20).

(iv) Persons not in the labour force are all those who, during survey week, were not in the categories 'employed' or 'unemployed' as defined. This category therefore includes persons without a job, business or farm who were not actively looking for work, and who, during survey week, were either keeping house (unpaid), attending an educational institution (e.g. school or university), retired or voluntarily inactive, permanently unable to work or inmates of institutions. A person who worked less than fifteen hours without pay in a family business during survey week is also classified as not in the labour force.

Figures of total population fifteen years of age and over for each sex are derived from the official population estimates, which in turn are based on results of population censuses. Figures of marital status and all labour force characteristics of these populations are derived from the sample survey data. For this and other reasons, including differences in timing, methods of collection (personal interview in the survey, self-enumeration in the census) and, in some cases, concepts and definitions, the survey estimates of marital status and labour force characteristics may not agree closely with the corresponding census figures.

Reliability of the estimates

Since the estimates which appear in the following tables are based on a sample, they may differ from the figures that would have been obtained from a complete census using the same questionnaires and procedures. One measure of the likely difference is given by the standard error, which indicates the extent to which an estimate might have varied by chance because only a sample, and not the whole population, was enumerated. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained from a comparable complete enumeration, and about nineteen chances in twenty that the difference will be less than two standard errors.

Space does not allow for the separate indication of the standard errors of all estimates in this section. A table of standard errors which is intended to be of general application is therefore given below.

The figures in this table will not give a precise measure of the standard error of a particular estimate since they are averages based on calculations for a limited number of past surveys over a wide range of labour force characteristics. However, they will provide an indication of the magnitude of the standard error of any particular estimate for any particular survey. An example of the use of the table is as follows: if the estimate for Australia obtained from the sample is 100,000 the standard error is 3,000; i.e. there are then about two chances in three that the true figure is within the range 97,000 to 103,000 and about nineteen chances in twenty that this figure is between 94,000 and 106,000.

| | | | | | | | | | | Austi | alia |
|-------------|-------|---------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|--------|------------------------|
| Size of est | imate | N.S.W. No. | Vic. No. | Qld No. | S.A. No. | W.A. No. | Tas. No. | N.T. No. | A.C.T. No. | No. | er cent of estimate |
| 1,500 | | | | | | | 250 | 300 | 300 | | |
| 2,000 | | | | | | 400 | 250 | 350 | 350 | | |
| 2,500 | | | | | 500 | 450 | 250 | 400 | 400 | | |
| 3,000 | | | | 600 | 500 | 450 | 300 | 400 | 450 | | |
| 4,000 | | 900 | 900 | 700 | 500 | 500 | 300 | 450 | 550 | 800 | 20.0 |
| 5,000 | | 1,000 | 1,000 | 750 | 550 | 550 | 350 | 500 | 600 | 900 | 18.0 |
| 10,000 | | 1,300 | 1,300 | 900 | 800 | 700 | 400 | 650 | 800 | 1,200 | 12.0 |
| 20,000 | | 1,600 | 1,600 | 1,200 | 1,100 | 1,000 | 400 | 900 | 1,050 | 1,600 | 8.0 |
| 50,000 | | 2,500 | 2,500 | 1,500 | 1,500 | 1,500 | 500 | 1,300 | 1,500 | 2,300 | 4.6 |
| 100,000 | | 3,000 | 3,000 | 2,000 | 2,000 | 2,000 | 600 | | 2,000 | 3,000 | 3.0 |
| 200,000 | | 4,000 | 4,000 | 2,000 | 2,000 | 2,000 | | | | 4,000 | 2.0 |
| 500,000 | | 5,000 | 5,000 | 3,500 | 3,200 | 3,000 | | | | 6,000 | 1.2 |
| 1,000,000 | | 8,000 | 8,000 | | | | | | | 8,000 | 0.8 |
| 2,000,000 | | | | | | | | | | 10,000 | 0.5 |

STANDARD ERRORS OF QUARTERLY ESTIMATES

The standard errors of estimates relating to agricultural employment are generally somewhat higher than the standard errors of other estimates of the same magnitude. Estimates for females also tend to have higher standard errors than estimates of equivalent size for males in similar employment categories.

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the numerator and the size of the denominator. However, the percent standard error of the estimated percentage will generally be lower than the per cent standard error of the estimate of the numerator. The per cent standard errors of the numerators can be obtained from the table above.

As the standard errors in the table show, the smaller the estimate the higher is the relative standard error. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the following tables, estimates less than the lowest levels shown in the above table have not been included. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

⁻⁻⁻ Estimates below the levels indicated have not been published—see below.

The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by interviewers and respondents. Inaccuracies of this kind are referred to as the *non-sampling error*, and they may occur in any enumeration, whether it be a full count or only a sample. Every effort is made to reduce the non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers and efficient operating procedures.

CIVILIAN POPULATION 15 YEARS OF AGE AND OVER(a), BY EMPLOYMENT STATUS AUSTRALIA

| | | | Employe | d(b) | | Unemploy | yed(b) | Total labo | our force(b) | | Civilian population |
|-------------|---|--|----------------------------|-------------------------------|-----------------|------------------|--------------------------------|------------------|-----------------------------------|--|-----------------------------------|
| May— | | | Agri- culture ('000) | Other industries ('000) | Total ('000) | Number ('000) | Per cent of labour force | Number ('000) | Per cent of popu- lation(c) | Not in labour force(b) ('000) | aged 1: and ove (a ('000 |
| | | | | | | MALES | | | | | |
| 1973 . | | | 305.1 | 3,429.2 | 3,734.3 | 50.4 | 1.3 | 3,784.7 | 81.9 | 836.9 | 4,621.6 |
| 1974 . | | | 305.9 | 3,499.5 | 3,805.4 | 45.2 | 1.2 | 3,850.6 | 81.8 | 856.6 | 4,707.2 |
| 1975 . | | | 297.6 | 3,474.3 | 3,771.9 | 124.5 | 3.2 | 3,896.3 | 81 1 | 910.7 | 4,807.0 |
| 1976(e) | • | • | 284.2 | 3,543.9 | 3,828.1 | 132.4 | 3.3 | 3,960.5 | 81.0 | 930.1 | 4,890.6 |
| | | | | | MAR | RIED W | OMEN | | | | |
| 1973 . | | | 54.7 | 1,103.3 | 1,157.9 | 26.1 | 2.2 | 1,184.1 | 37.5 | 1,976.6 | 3,160.7 |
| 1974 . | | | 48.9 | 1,197.5 | 1,246.5 | 25.6 | 2.0 | 1,272.1 | 39.5 | 1,948.7 | 3,220.8 |
| 1975 . | | | 52.1 | 1,185.5 | 1,237.6 | <u>51.0</u> | 4.0 | 1,288.6 | 39.8 | 1,951.0 | 3,239.6 |
| 1976(e) | • | • | 57.1 | 1,230.7 | 1,287.8 | 50.9 | 3.8 | 1,338.8 | 41.0 | 1,924.4 | 3,263.2 |
| | | | | | ОТНЕ | R FEMA | LES(d) | | | | |
| 1973 . | | | 10.7 | 672.9 | 683.5 | 23.7 | 3.4 | 707.3 | 45.3 | 852.4 | 1,559.6 |
| 1974 . | | | 10.9 | 687.3 | 698.2 | 24.5 | 3.4 | 722.7 | 45.6 | 863.7 | 1,586.3 |
| 1975 . | | | 10.3 | 690.8 | 701.1 | <u>54.1</u> | 7.2 | 755.2 | <u>45.3</u> | 910.5 | 1,665.6 |
| 1976(e) | • | | 10.6 | 714.0 | 724.6 | 64.2 | 8.1 | 788.8 | 46.0 | 926.8 | 1,715.6 |
| | | | | | ALI | . FEMAI | LES | | | | |
| 973 . | | | 65.3 | 1,776.1 | 1,841.5 | 49.9 | 2.6 | 1,891.4 | 40.1 | 2,828.9 | 4,720.3 |
| 974 . | | | 59.9 | 1,884.8 | 1,944.7 | 50.1 | 2.5 | 1,994.7 | 41.5 | 2,812.4 | 4,807.1 |
| 975 . | | | 62.4 | 1,876.3 | 1,938.7 | 105.1 | <u>5.1</u> | 2,043.8 | <u>41.7</u> | 2,861.5 | 4,905.3 |
| 976(e) | · | <u>. </u> | 67.8 | 1,944.7 | 2,012.5 | 115.1 | 5.4 | 2,127.6 | 42.7 | 2,851.2 | 4,978.8 |
| | | | | | P | ERSONS | | | | | |
| 973 . | | | 370.4 | 5,205.4 | 5,575.8 | 100.3 | 1.8 | 5,676.1 | 60.8 | 3,665.8 | 9,341.9 |
| 974 . | | | 365.8 | 5,384.3 | 5,750.1 | 95.2 | 1.6 | 5,845.3 | 61.4 | 3,669.0 | 9.514.3 |
| 975 . | | ٠. | 360.0 | 5,350.6 | 5,710.6 | 229.6 | 3.9 | 5,940.1 | 61.2 | 3,772.1 | 9,712.3 |
| 976(e) | | | 352.0 | 5,488.6 | 5,840.6 | 247.6 | 4.1 | 6,088.1 | 61.7 | 3,781.3 | 9,869.4 |

⁽a) For a note on persons excluded see explanatory notes on page 689. (b) For definitions see page 690. (c) The labour force in each group as a percentage of the civilian population aged 15 years and over in the same group (labour force participation rate). (d) Never married, widowed and divorced. (e) Revised definition of unemployed, labour force, and not in labour force. See page 690.

THE LABOUR FORCE SURVEY

CIVILIAN POPULATION 15 YEARS OF AGE AND OVER(a), BY EMPLOYMENT STATUS MAY 1976

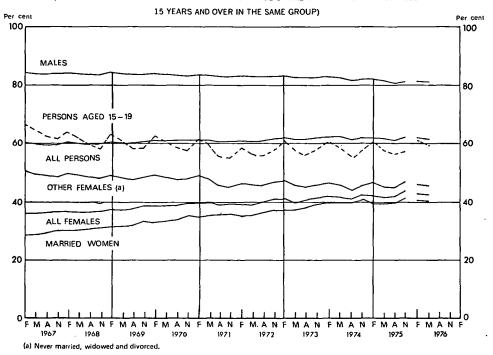
| | Employee | d(b) | | Unemplo | yed(b) | Total lab | our force(b) | | Civilian population |
|---|--|--|---|---|--|---|--|--|---|
| State or Territory | Agri- culture ('000) | Other industries ('000) | Total ('000) | Number ('000) | Per cent of labour force(c) | Number ('000) | Per cent of popu- lation(d) | Not in labour force(b) ('000) | aged 15 and over (a) ('000) |
| | | | | MALES | | | | | |
| New South Wales . Victoria . Queensland . South Australia . Western Australia . Tasmania . Northern Territory Australian Capital Territory . | 84.1 62.9 59.0 32.2 34.9 9.3 1.5 | 1,278.2 975.5 491.8 320.7 298.4 102.2 24.0 53.0 | 1,362.3 1,038.4 550.8 352.9 333.3 111.5 25.5 53.4 3,828.1 | 57.9 (e)27.0 19.5 10.5 10.4 3.7 2.7 | 4.1 (e)2.5 3.4 2.9 3.0 3.2 * | 1,420.3 1,065.3 570.3 363.4 343.7 115.1 26.3 56.1 3,960.5 | 81.0 81.1 79.4 80.8 83.0 79.6 81.8 88.0 | 333.4 249.1 147.7 86.6 70.3 29.5 5.8 7.7 930.1 | 1,753.7 1,314.4 718.0 450.0 414.0 144.6 32.1 63.8 4,890.6 |
| | | | | FEMALES | ; | | | | |
| New South Wales. Victoria Queensland South Australia Western Australia. Tasmania Northern Territory Australian Capital | 21.0 14.4 13.4 6.7 9.1 3.1 | 697.7 543.3 248.4 187.8 168.7 51.7 | 718.7 557.7 261.8 194.5 177.8 54.8 12.8 | 42.3 29.0 15.9 8.2 12.5 4.7 | 5.6 4.9 5.7 4.0 6.6 7.9 | 761.0 586.7 277.7 202.6 190.3 59.5 13.3 | 42.5 43.2 38.2 43.8 47.3 40.4 50.1 | 1,029.0 770.3 449.3 259.8 211.8 87.7 13.2 | 1,790.0 1,357.0 727.0 462.4 402.1 147.2 26.5 |
| Territory | • | 34.5 | 34.5 | 2.1 | 5.7 | 36.5 | 54.9 | 30.1 | 66.6 |
| Australia . | 67.8 | 1,944.7 | 2,012.5 | 115.1 | 5.4 | 2,127.6 | 42.7 | 2,851.2 | 4,978.8 |
| | | | | PERSONS | , | | | _ | |
| New South Wales. Victoria Queensland . South Australia . Western Australia . Tasmania . Northern Territory Australian Capital Territory . | 105.1 77.3 72.4 38.9 44.0 12.3 1.6 | 1,975.9 1,518.8 740.2 508.5 467.2 153.9 36.8 | 2,081.0 1,596.1 812.6 547.4 511.2 166.3 38.3 | 100.2 (e)56.0 35.4 18.7 22.9 8.3 | 4.6 (e)3.4 4.2 3.3 4.3 4.8 | 2,181.2 1,652.1 847.9 566.1 534.1 174.6 39.5 | 61.6 61.8 58.7 62.0 65.4 59.8 67.5 | 1,362.5 1,019.3 597.1 346.4 282.0 117.2 19.1 | 3,543.7 2,671.4 1,445.0 912.4 816.1 291.8 58.6 |
| Australia . | 352.0 | 5,488.6 | 5,840.6 | 247.6 | 4.1 | 6,088.1 | 61.7 | 3,781.3 | 9,869.4 |

⁽a) For a note on persons excluded see page 689. (b) For definitions see page 690. (c) The number of unemployed in each group as a percentage of the labour force in the same group. (d) The labour force in each group as a percentage of the civilian population aged 15 years and over in the same group (labour force participation rate). (e) This estimate appears low; as pointed out on page 691, there is one chance in twenty that it could be more than two standard errors below the figure which would have been obtained from a complete census.

[•] Subject to sampling variability too high for most practical uses. For an explanation of the standard error of the estimates see page 691.

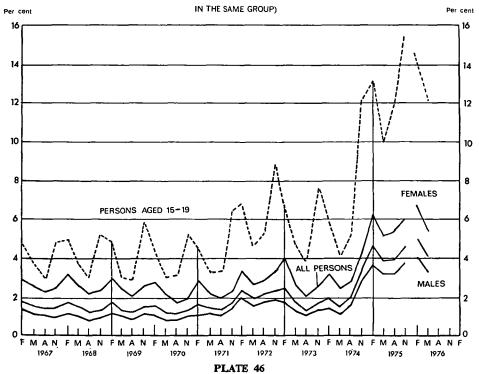
EMPLOYMENT AND UNEMPLOYMENT LABOUR FORCE PARTICIPATION RATES

(THE LABOUR FORCE IN EACH GROUP AS A PERCENTAGE OF THE CIVILIAN POPULATION AGED



UNEMPLOYMENT RATES

(THE UNEMPLOYED IN EACH GROUP AS A PERCENTAGE OF THE CIVILIAN LABOUR FORCE



CIVILIAN LABOUR FORCE(a): EMPLOYMENT STATUS, BIRTHPLACE AND PERIOD OF ARRIVAL IN AUSTRALIA, MAY 1976

| | | Unemploy | ed(b) | Total labo | ur force(b) |
|----------------------------------|-----------------------|------------------|-----------------------------|------------------|---------------------------|
| Birthplace and period of arrival | Employed(b) ('000) | Number ('000) | Per cent of labour force | Number ('000) | Per cent of population(c) |
| | МА | LES | | | |
| Born in Australia | . 2,785.6 | 96.6 | 3.4 | 2,882.2 | 81.1 |
| Born outside Australia | . 1,042.5 | 35.8 | 3.3 | 1,078.3 | 84.1 |
| Arrived before 1955 | . 301.4 | 6.2 | 2.0 | 307.6 | 71.0 |
| 1955 to 1961 | . 232.7 | 7.2 | 3.0 | 239.9 | 92.1 |
| 1962 to 1967 | . 209.0 | 7.3 | 3.4 | 216.4 | 90.0 |
| 1968 to 1974 | . 267.6 | 13.0 | 4.6 | 280.6 | 90.5 |
| Jan. 1975 to May 1976 | . 31.8 | * | <u> </u> | 33.9 | 80.1 |
| | MARRIED | WOMEN | | | |
| Born in Australia | . 894.6 | 31.5 | 3.4 | 926.0 | 38.5 |
| Born outside Australia | . 393.3 | 19.5 | 4.7 | 412.8 | 48.6 |
| Arrived before 1955 | . 86.3 | * | * | 88.9 | 36.0 |
| 1955 to 1961 | . 96.9 | 4.8 | 4.7 | 101.7 | 51.3 |
| 1962 to 1967 | . 86.0 | 4.0 | 4.4 | 90.0 | 53.5 |
| 1968 to 1974 | . 113.4 | 5.6 | 4.7 | 119.0 | 56.5 |
| Jan. 1975 to May 1976 | . 10.7 | * | | 13.2 | 51.1 |
| | ALL FE | MALES | | | |
| Born in Australia | . 1,495.0 | 84.9 | 5.4 | 1,579.9 | 42.1 |
| Born outside Australia | . 517.5 | 30.2 | 5.5 | 547.7 | 47.6 |
| Arrived before 1955 | . 107.0 | * | * | 110.9 | 31.5 |
| 1955 to 1961 . | . 122.0 | 6.8 | 5.3 | 128.8 | 52.1 |
| 1962 to 1967 | . 113.9 | 6.6 | 5.5 | 120.4 | 53.5 |
| 1968 to 1974 | . 157.4 | 9.6 | 5.7 | 166.9 | 58.1 |
| Jan. 1975 to May 1976 | . 17.2 | <u> </u> | <u> </u> | 20.6 | 52.1 |
| | PERS | ONS | | | |
| Born in Australia | . 4,280.6 | 181.5 | 4.1 | 4,462.1 | 61.1 |
| Born outside Australia | . 1,560.0 | 66.0 | 4.1 | 1,626.0 | 66.8 |
| Arrived before 1955 | . 408.4 | 10.0 | 2.4 | 418.5 | 53.6 |
| 1955 to 1961 | . 354.7 | 14.1 | 3.8 | 368.7 | 72.6 |
| 1962 to 1967 | . 322.9 | 13.9 | 4.1 | 336.8 | 72.3 |
| 1968 to 1974 | . 424.9 | 22.5 | 5.0 | 447.5 | 74.9 |
| Jan. 1975 to May 1976 | . 49.1 | 5.5 | 10.1 | 54.5 | 66.6 |

⁽a) Aged 15 years and over. (b) For definitions see page 690. (c) See note (c) to table on page 692. Persons in institutions for whom, for the purposes of the survey, the institution was regarded as their usual place of residence, have been omitted since it is not practicable to ascertain the birthplace or the year of arrival in Australia for such persons.

^{*} Estimates less than, or based on a figure less than 4,000 are not published because they would be subject to sampling variability too high for most practical purposes. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

CIVILIAN LABOUR FORCE(a), BY AGE AND MARITAL STATUS AUSTRALIA, MAY 1976

| Age | Married | i | | Not ma | rried(b) | | Total | | | |
|------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|--|
| group (years) | Males | Females | Persons | Males | Females | Persons | Males | Females | Persons | |
| | | | N | UMBER | (000) | | | | | |
| 15-19 | 6.7 | 22.7 | 29.5 | 378.7 | 313.9 | 692.6 | 385.4 | 336.6 | 722.0 | |
| 20-24 | 187.6 | 179.2 | 366.8 | 335.3 | 190.5 | 525.8 | 522.9 | 369.7 | 892.6 | |
| 25-34 | 818.7 | 378.0 | 1,196.7 | 208.9 | 100.6 | 309.5 | 1,027.7 | 478.6 | 1,506.2 | |
| 35-44 | 686.9 | 360.5 | 1,047.4 | 79.0 | 53.3 | 132.3 | 765.9 | 413.8 | 1,179.7 | |
| 45-54 | 654.1 | 300.5 | 954.6 | 81.1 | 65.4 | 146.5 | 735.2 | 365.9 | 1,101.1 | |
| 55-59 | 231.7 | 65.8 | 297.6 | 32.9 | 28.8 | 61.7 | 264.6 | 94.6 | 359.3 | |
| 60-64 | 157.2 | 23.8 | 181.0 | 25.5 | 20.4 | 45.9 | 182.7 | 44.2 | 227.0 | |
| 65 and over . | 60.3 | 8.2 | 68.5 | 15.9 | 15.9 | 31.7 | 76.1 | 24.1 | 100.2 | |
| Total . | 2,803.3 | 1,338.8 | 4,142.1 | 1,157.2 | 788.9 | 1,946.1 | 3,960.5 | 2,127.6 | 6,088.1 | |
| | | I | PER CEN | T OF PO | PULATIO | N(c) | | | | |
| 15~19 | 90.9 | 51.0 | 56.7 | 61.5 | 56.6 | 59.2 | 61.9 | 56.2 | 59.1 | |
| 20-24 | 97.4 | 53.9 | 69.9 | 87.6 | 82.6 | 85.7 | 90.9 | 65.7 | 78.4 | |
| 25-34 | 98.4 | 42.5 | 69.5 | 93.0 | 77.8 | 87.5 | 97.2 | 47.0 | 72.6 | |
| 35-44 | 98.0 | 52.9 | 75.8 | 91.7 | 72.2 | 82.7 | 97.3 | 54.8 | 76.5 | |
| 45-54 | 95.7 | 47.0 | 72.2 | 82.6 | 57.8 | 69.3 | 94.1 | 48.6 | 71.8 | |
| 55-59 | 89.5 | 28.0 | 60.2 | 77.1 | 37.8 | 52.0 | 87.8 | 30.4 | 58.6 | |
| 60-64 | 68.3 | 12.3 | 42.6 | 60.2 | 21.4 | 33.4 | 67.0 | 15.3 | 40.4 | |
| 65 and over . | 16.9 | 3.3 | 11.3 | 11.7 | 3.6 | 5.5 | 15.5 | 3.5 | 8.5 | |
| Total . | 85.9 | 41.0 | 63.5 | 71.1 | 46.0 | 58.2 | 81.0 | 42.7 | 61.7 | |
| | | | | | | | | | | |

(a) Aged 15 years and over. For definitions see page 690. (b) Never married, widowed and divorced. (c) The labour force in each group as a percentage of the civilian population in the same group (labour force participation rate).

CIVILIAN LABOUR FORCE(a), BY INDUSTRY(b), AUSTRALIA, MAY 1976 ('000)

| Industry division of | r su | ıb-divisi | on(b) | _ | | | Males | Females | Persons |
|----------------------|-------|-----------|-------|-----|-----|-------|---------|---------|---------|
| Agriculture . | | | | | | | 292.5 | 70.3 | 362.8 |
| Forestry, fishing a | | | | | | | 19.7 | * | 20.2 |
| Mining | | | | | | | 77.5 | 5.3 | 82.8 |
| Manufacturing | | | | | | | 970.1 | 347.3 | 1.317.4 |
| Camataniatian | | | | | | | 495.6 | 37.3 | 532.9 |
| Wholesale and ret | ail i | | | | | | 699.1 | 495.4 | 1,194.5 |
| Transport and sto | | | | | | | 291.7 | 43.8 | 335.5 |
| Finance, insuran | | | state | and | bus | iness | | | |
| services . | | | | | | | 257.1 | 211.5 | 468.6 |
| Community service | | | | | | | 316.3 | 531.0 | 847.3 |
| Entertainment, ho | | | | | | | 163.1 | 237.6 | 400.7 |
| Other industries(d | | | | | ٠. | | 367.5 | 131.3 | 498.8 |
| Looking for first j | | | | | | • | 10.5 | 16.2 | 26.6 |
| Total . | | | | | | | 3,960.5 | 2,127.6 | 6,088.1 |

⁽a) Aged 15 years and over. For definitions see page 690. (b) The industry estimates are based on the Australian Standard Industrial Classification (ASIC). (c) Comprises health; education, libraries, etc.; welfare and religious institutions; and other community services. (d) Comprises electricity, gas and water; communication; and public administration and defence.

^{*} Estimates less than, or based on a figure less than 4,000 are not published because they would be subject to sampling variability too high for most practical purposes. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

THE LABOUR FORCE SURVEY

CIVILIAN LABOUR FORCE(a), BY OCCUPATION, AUSTRALIA, MAY 1976 ('000)

| Occupation group | | | | | Males | Females | Persons |
|---------------------------------------|-------|-----|--------|-------|---------|---------|---------|
| Professional and technical | | | | | 421.3 | 323.0 | 744.3 |
| Administrative, executive and manage | дегіа | al | | | 317.6 | 39.5 | 357.2 |
| Clerical | | | | | 333.2 | 706.8 | 1.040.0 |
| Sales | | | | | 249.8 | 281.2 | 530.9 |
| Farmers, fishermen, timber-getters, e | tc. | | | | 348.3 | 67.4 | 415.7 |
| Transport and communication . | | | | | 304.1 | 46.7 | 350.8 |
| Tradesmen, production-process work | ers : | and | laboui | rers. | | | |
| n.e.c.(b) | | | | | 1.766.4 | 263.4 | 2,029.9 |
| Service, sport and recreation | | | | | 209.3 | 383.4 | 592.8 |
| Looking for first job | | • | | | 10.5 | 16.2 | 26.6 |
| Total | | | | | 3,960.5 | 2,127.6 | 6,088.1 |

(a) Aged 15 years and over. For definitions see page 690. (b) Includes miners, quarrymen and related workers.

AVERAGE HOURS WORKED(a) BY EMPLOYED PERSONS(b), AUSTRALIA, MAY 1976

| Industry division or sub-division(c) | Males | Married women fo | Other emales(d) | All females | Persons |
|--|-------|---------------------|--------------------|----------------|---------|
| Agriculture | 52.0 | 27.7 | 33.5 | 28.6 | 47.5 |
| Forestry, fishing and hunting | 41.4 | * | * | * | 40.8 |
| Mining | 39.9 | * | | 32.9 | 39.5 |
| Manufacturing | 38.4 | 32.6 | 36.2 | 33.5 | 37.2 |
| Construction | 38.9 | 18.3 | 35.1 | 21.2 | 37.6 |
| Wholesale and retail trade | 40.6 | 28.9 | 31.0 | 29.7 | 36.2 |
| Transport and storage | 39.1 | 26.4 | 36.8 | 30.6 | 38.0 |
| Finance, insurance, real estate and business | 37.1 | 20.4 | 50.0 | 20.0 | 50.0 |
| | 38.7 | 27.7 | 34.6 | 30.9 | 35.2 |
| Community completely | 34.1 | 23.3 | 30.8 | 26.2 | 29.2 |
| | 34.1 | 23.3 | 30.6 | 20.2 | 29.2 |
| Entertainment, recreation, restaurants, hotels | 20.0 | 25.0 | 20.0 | 26.4 | 31.4 |
| and personal services | 38.8 | 25.0 | 29.0 | | |
| Other industries (g) | 34.8 | 31.0 | 34.3 | 32.6 | 34.2 |
| Total | 39.3 | 27.4 | 32.3 | 29.2 | 35.8 |
| Wage and salary earners | 37.4 | 27.1 | 32.3 | 29.1 | 34.4 |
| Other(f) | 48.8 | 29.7 | 34.3 | 30.3 | 44.3 |
| Full-time workers | 40.5 | 36.3 | 36.5 | 36.4 | 39.4 |
| Part-time workers | 14.2 | 14.9 | 13.0 | 14.5 | 14.5 |

⁽a) Persons with jobs who did not work during survey week have been included in the calculation of average hours worked. When recording hours worked, fractions of an hour are disregarded. This procedure results in a slight lowering of the average hours figures. (b) Civilians aged 15 years and over. For definition see page 690. (c) The industry estimates are based on the Australian Standard Industrial Classification (ASIC). (d) Never married, widowed and divorced. (e) Comprises health; education, libraries, etc.; welfare and religious institutions; and other community services. (f) Employers, self-employed and unpaid family helpers. (g) Comprises electricity, gas and water; communication; and public administration and defence.

^{*} See note * to the second table on the previous page.

EMPLOYMENT AND UNEMPLOYMENT

EMPLOYED PERSONS(a), BY HOURS WORKED(b), AUSTRALIA ('000)

| | | | | Hours v | vorked dur | ing survey | week | | | | | Average l worked(d | |
|------------------------------|---|---|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|----------------------------------|----------------------------------|--|------------------------------|------------------------------|
| May- | - | | | 0(c) | 1-29 | 30-34 | 35-39 | 40 | 41–48 | 49 and over | Total | Full-time workers (e) | Ali persons |
| | | | | | | | MA | LES | | | - | | |
| 1973 1974 1975 1976 | : | : | : | 237.5 261.3 270.3 299.1 | 175.2 196.7 208.6 225.6 | 178.4 140.7 161.3 154.7 | 332.3 351.1 369.4 395.4 | 1,471.0 1,426.5 1,551.7 1,529.5 | 534.7 585.8 469.6 507.9 | 805.1 843.4 740.9 715.9 | 3 734.3 3,805.4 3,771.9 3,828.1 | 41.9 41.7 40.8 40.5 | 40.9 40.7 39.8 39.3 |
| | • | | | | | MA | ARRIEC | WOME | 7 | | | | |
| 1973 1974 1975 1976 | | : | : | 104.0 113.5 133.2 149.0 | 344.9 372.2 379.3 422.1 | 87.7 93.3 93.7 97.2 | 143.7 158.1 164.3 159.7 | 364.5 373.1 361.7 350.0 | 54.9 71.8 48.8 50.5 | 58.2 64.6 56.6 59.2 | 1,157.9 1,246.5 1,237.6 1,287.8 | 37.3 37.4 36.4 36.3 | 29.4 29.5 28.2 27.4 |
| | | | • | - | | ОТ | HER FE | MALES(| f) | | | _ | |
| 1973 1974 1975 1976 | : | : | : | 46.2 47.9 45.0 58.6 | 82.4 92.3 98.7 114.6 | 41.0 38.2 37.8 39.9 | 144.2 145.7 152.9 152.2 | 296.2 290.8 289.3 283.0 | 44.9 52.5 49.5 45.1 | 28.6 30.7 27.8 31.1 | 683.5 698.2 701.1 724.6 | 36.7 37.0 37.1 36.5 | 33.9 33.6 33.4 32.3 |
| | | | | - | | | ALL FE | MALES | | | | | |
| 1973 1974 1975 1976 | : | : | : | 150.3 161.4 178.2 207.7 | 427.2 464.5 478.0 536.7 | 128.8 131.4 131.5 137.1 | 287.9 303.9 317.2 311.9 | 660.7 663.9 651.1 633.1 | 99.8 124.3 98.3 95.7 | 86.8 95.3 84.4 90.3 | 1,841.5 1,944.7 1,938.7 2,012.5 | 37.0 37.2 36.7 36.4 | 31.1 31.0 30.1 29.2 |
| | | | | | | | PERS | ONS | | | | | |
| 1973 1974 1975 1976 | : | : | : | 387.8 422.7 448.5 506.8 | 602.5 661.2 686.5 762.3 | 307.2 272.1 292.9 291.8 | 620.2 654.9 686.6 707.3 | 2,131.7 2,090.4 2,202.8 2,162.6 | 634.5 710.1 567.8 603.5 | 891.9 938.6 825.4 806.3 | 5,575.8 5,750.1 5,710.6 5,840.6 | 40.6 40.4 39.7 39.4 | 37.7 37.4 36.5 35.8 |

⁽a) Civilians 15 years of age and over. For definitions see page 690. (b) Actual hours worked during survey week, not hours paid for. The figures may be affected by public holidays, leave, absenteeism; temporary absence from work due to sickness, accidents, and industrial disputes; and work stoppages due to bad weather, plant breakdown, etc. (c) Excludes persons laid off for the whole of survey week without pay; these persons are classified as unemployed. (d) Persons with jobs who did not work during survey week have been included in the calculation of average hours worked. When recording hours worked, fractions of an hour are disregarded. This procedure results in a slight lowering of the average hours figures. (e) Persons who usually work 35 hours a week or more and others who, although usually part-time workers, worked 35 hours or more during survey week. (f) Never married, widowed and divorced.

THE LABOUR FORCE SURVEY

EMPLOYED PERSONS(a) WHO WORKED LESS THAN 35 HOURS(b), BY REASON, AUSTRALIA ('000)

| | | | Usually | work 35 hours | or more | | Usually we | ork less than . | 35 hours |
|------------------|---|---|----------------------|--------------------------|------------------|----------------|---------------------------|------------------|----------------|
| | | | Reason f 35 hours | or working less | than | | Reason for less than 3 | | Total |
| May | | | Leave or holiday | Own illness or injury | Other reasons | Total | Lack of work | Other reasons | |
| | | | | | MALES | | | | |
| 1973 . | | | 333.2 | 95.1 | 33.8 | 462.1 | 10.2 | 118.9 | 129.1 |
| 1974 . | • | • | 287.6 | 116.1 | 60.4 | 464.0 | 5.7 | 128.9 | 134.6 |
| 1975 . 1976 . | • | : | 323.2 349.7 | 107.8 121.6 | 66.4 35.0 | 497.4 506.3 | 15.3 21.8 | 127.5 151.4 | 142.9 173.2 |
| | | | | | FEMALES | | | | |
| 1973 . | | | 160.8 | 33.5 | 7.7 | 202.0 | 18.7 | 485.5 | 504.2 |
| 1974 . | | | 132.2 | 50.6 | 14.2 | 197.1 | 12.9 | 547.4 | 560.3 |
| 1975 . 1976 . | • | • | 146.6 162.4 | 37.9 44.1 | 14.4 12.3 | 198.8 218.8 | 27.2 36.4 | 561.7 626.4 | 588.9 662.8 |
| | _ | | | | PERSONS | | | | |
| 1973 . | | | 494.0 | 128.6 | 41.5 | 664.1 | 28.9 | 604.4 | 633.3 |
| 1974 . | | | 419.8 | 166.7 | 74.6 | 661.1 | 18.6 | 676.3 | 694.9 |
| 1975 . | | • | 469.7 | 145.7 | 80.8 | 696.2 | 42.5 | 689.2 | 731.8 |
| 1976 . | • | • | 512.1 | 165.7 | 47.3 | 725.0 | 58.2 | 777.7 | 836.0 |

⁽a) Civilians 15 years of age and over. For definitions see page 690. (b) See note (b) to previous table.

UNEMPLOYMENT RATES(a), STATE CAPITAL CITIES AND OTHER AREAS (Per cent)

| | | | State cap | oital cities(b) | | Other areas | | | | | |
|-------------|---|-------|-----------|-----------------|-------|-------------|------------|-----|--|--|--|
| <i>May—</i> | | Males | Females | Persons | Males | Females | Persons | | | | |
| 1973 . | | | 1.2 | 2.1 | 1.6 | 1.5 | 3.6 | 2.1 | | | |
| 1974 . | | | 1.0 | 1.9 | 1.3 | 1.5 | 3.9 | 2.2 | | | |
| 1975 . | • | | 3.4 | 5.1 | 4.0 | 2.9 | <u>5.3</u> | 3.6 | | | |
| 1976(c) | | | 3.3 | 5.1 | 3.9 | 3.5 | 6.2 | 4.3 | | | |

⁽a) The unemployed in each group as a percentage of the labour force in the same group. (b) The figures relate to persons residing within the boundaries of the relevant Statistical Divisions. Explanatory notes on the delimitation of urban boundaries are shown on pages 142-3. Maps showing the boundaries of the capital city Statistical Divisions were published in Census of the Commonwealth of Australia, 30 June 1966—Field Count Statement No. 4, and Census of Population and Housing, 30 June 1971—Field Count Statement Nos 3 to 8. (c) Based on revised definition of unemployed. See page 690.

UNEMPLOYED PERSONS(a), AUSTRALIA

| | Age (year | rs) | | | | | | | | | |
|---------------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|-----------------------------------|------------------------------------|------------------------------------|---------------------------------|
| | 15-19 | | 20 and ov | er | Duration | on of unem | ployment(| b) | Looking j | for- | |
| May- | Number unem- ployed ('000) | Per cent of labour force | Number unem- ployed ('000) | Per cent of labour force | Under 2 weeks ('000) | 2 and under 4 weeks ('000) | 4 and under 13 weeks ('000) | 13 weeks and over ('000) | Full- time work(c) ('000) | Part- time work(d) ('000) | Total (*000) |
| | | | | | MA | LES | | | | | |
| 1973 . 1974 . 1975 . 1976(e) | 14.7 10.4 30.8 41.7 | 4.2 2.9 8.5 10.8 | 35.7 34.8 93.7 90.7 | 1.0 1.0 2.7 2.5 | 9.3 8.7 12.1 9.0 | 15.7 15.8 21.4 22.4 | 16.0 14.1 48.4 38.3 | 9.3 6.6 42.6 62.7 | 44.9 40.8 117.4 123.3 | 5.5 4.3 7.1 9.2 | 50.4 45.2 124.5 132.4 |
| | | | | | FEMA | ALES | | | | | |
| 1973 . 1974 . 1975 . 1976(e) | 16.5 18.2 38.7 45.7 | 5.3 5.6 11.7 13.6 | 33.4 31.9 66.4 69.4 | 2.1 1.9 3.9 3.9 | 11.3 14.2 13.6 9.5 | 13.8 12.9 17.8 20.7 | 15.1 15.8 36.5 39.2 | 9.7 7.2 37.3 45.6 | 33.4 30.9 74.1 79.1 | 16.5 19.2 31.0 36.0 | 49.9 50.1 105.1 115.1 |
| | _ | | | | PERS | ONS | | | | | |
| 1973 . 1974 . 1975 . 1976(e) | 31.2 28.6 69.5 87.4 | 4.7 4.2 10.0 12.1 | 69.1 66.7 160.1 160.1 | 1.4 1.3 3.1 3.0 | 20.6 23.0 25.7 18.5 | 29.5 28.6 39.2 43.1 | 31.2 29.9 84.9 77.6 | 19.0 13.7 79.8 108.3 | 78.3 71.7 191.5 202.4 | 22.0 23.5 38.1 45.2 | 100.3 95.2 229.6 247.6 |

⁽a) Civilians 15 years of age and over. For definitions see page 690. (b) Period from the time the person began looking for work, or was laid off, to the end of survey week. (c) Includes persons laid off for the whole week from full-time jobs. (d) Includes persons laid off for the whole week from part-time jobs. (e) Revised definition of unemployed. See page 690.

UNEMPLOYED PERSONS(a), BY AVERAGE DURATION OF UNEMPLOYMENT(b), AUSTRALIA, MAY 1976

(Weeks)

| Age | | | | | Males | Married women | Other females(c) | All females | Persons |
|-------------------|-----|--------|----|------|-----------|------------------|---------------------|----------------|---------|
| 15-19 years . | | | | | 15.6 | 14.4 | 18.6 | 18.4 | 17.1 |
| 20 years and over | | | | | | 14.6 | 19.0 | 15.9 | 17.9 |
| All unemplo | yed | person | s. | • | 18.2 | 14.6 | 18.8 | 16.9 | 17.6 |

⁽a) Civilians aged 15 years and over. For definition see page 690, (b) Periods of unemployment are recorded only in completed weeks; this procedure results in a slight lowering of the figures shown for average duration of unemployment. (c) Never married, widowed and divorced.

UNEMPLOYED PERSONS(a), BY AGE AND BIRTHPLACE, AUSTRALIA, MAY 1976

| | Number u | nemployed (*00 | 00) | Per cent of labour force | | | |
|-------------------|----------|-----------------|----------|--------------------------|---------|---------|--|
| Age group (years) | Males | Females Persons | | Males | Females | Persons | |
| | 1 | BORN IN A | USTRALIA | | | | |
| 15–19 | 36.0 | 39.2 | 75.2 | 10.7 | 13.5 | 12.0 | |
| 20–24 | 20.6 | 16.6 | 37.2 | 4.8 | 5.5 | 5.1 | |
| 25–34 | 16.8 | 13.8 | 30.7 | 2.3 | 4.2 | 2.9 | |
| 35 and over | 23.2 | 15.3 | 38.5 | 1.7 | 2.3 | 1.9 | |
| Total 20 and over | 60.6 | 45.7 | 106.3 | 2.4 | 3.5 | 2.8 | |
| Total | 96.6 | 84.9 | 181.5 | 3.4 | 5.4 | 4.1 | |
| | BOR | N OUTSIDE | AUSTRALI | A | | | |
| 15–19 | 5.7 | 6.5 | 12.2 | 12.0 | 14.3 | 13.1 | |
| 20-24 | 6.0 | 5.2 | 11.2 | 6.2 | 7.5 | 6.7 | |
| 25–34 | 8.9 | 6.6 | 15.5 | 2.9 | 4.5 | 3.4 | |
| 35 and over | 15.2 | 11.8 | 27.0 | 2.4 | 4.2 | 3.0 | |
| Total 20 and over | 30.1 | 23.7 | 53.8 | 2.9 | 4.7 | 3.5 | |
| Total | 35.8 | 30.2 | 66.0 | 3.3 | 5.5 | 4.1 | |

⁽a) Civilians aged 15 years and over. For definition see page 690.

EMPLOYMENT AND UNEMPLOYMENT

PERSONS NOT IN THE LABOUR FORCE, BY MAJOR ACTIVITY, AUSTRALIA ('000)

| May— | _ | | | Kept house | Went to school, etc. | Retired or voluntarily inactive | Permanently unable to work | Institu- tionalised (a) | Total |
|------------------|---|---|---|------------|----------------------------|---------------------------------------|----------------------------------|-------------------------------|---------|
| | | | | | MA | LES | | | |
| 1973 . | | | | 9.5 | 271.4 | 458.7 | 41.0 | 56.4 | 836.9 |
| 1974 . | | | | 8.2 | 268.8 | 476.5 | 50.7 | 52.4 | 856.6 |
| 1975 . | • | • | ٠ | 8.5 | 277.3 | 525.2 | 43.6 | 56.1 | 910.7 |
| 1976(c) | • | • | | 12.5 | 269.2 | 548.5 | 44.0 | 55.9 | 930.1 |
| | | | | | MARRIED | WOMEN | | | |
| 1973 . | | | | 1,930.3 | 5.4 | 25.2 | 5.9 | 9.8 | 1,976.6 |
| 1974 . | | | | 1,901.0 | 8.3 | 26.5 | 4.8 | 8.1 | 1,948.7 |
| 1975 . | • | • | • | 1,893.5 | 9.8 | 29.8 | 5.0 | 12.8 | 1,951.0 |
| 1976(<i>c</i>) | • | • | | 1,867.1 | 12.2 | 30.9 | 5.3 | 8.8 | 1,924.4 |
| | | | | - | OTHER F | EMALES(b) | | | |
| 1973 . | , | | • | 439.3 | 225.1 | 112.9 | 18.2 | 56.8 | 852.4 |
| 1974 . | | | | 442.4 | 220.7 | 118.6 | 19.9 | 62.1 | 863.7 |
| 1975 . | • | • | • | 451.5 | 239.9 | 130.8 | 17.0 | 71.2 | 910.5 |
| 1976(c) | • | • | • | 492.3 | 246.6 | 108.1 | 13.8 | 65.9 | 926.8 |
| | | | | | ALL FE | MALES | | | |
| 1973 . | | | | 2,369.6 | 230.6 | 138.2 | 24.1 | 66.6 | 2,828.9 |
| 1974 . | • | | • | 2,343.4 | 228.9 | 145.1 | 24.7 | 70.2 | 2,812.4 |
| 1975 . | • | • | • | 2,345.1 | 249.6 | 160.6 | 22.1 | 84.1 | 2,861.5 |
| 1976(c) | | • | • | 2,359.4 | 258.8 | 139.1 | 19.2 | 74.7 | 2,851.2 |
| | | | | | PER | sons | | | |
| 1973 . | | | | 2,379.1 | 502.0 | 596.8 | | 122.9 | 3,665.8 |
| 1974 . | • | • | • | 2,351.6 | 497.7 | 621.7 | | 122.6 | 3,669.0 |
| 1975 . | • | • | • | 2,353.6 | 526.9 | 685.8 | 65.6 | 140.1 | 3,772. |
| 1976(c) | | | | 2,371.9 | 528.0 | 687.5 | 63.2 | 130.6 | 3,781.3 |

⁽a) Comprises inmates of gaols, patients in hospitals, sanatoria, etc., for whom, for the purposes of the survey, the institution was regarded as their dwelling.

(b) Never married, widowed and divorced.

(c) Revised definition of not in labour force. See page 690.

Leavers from schools, universities or other educational institutions

Surveys based on the quarterly population survey (see page 689) were carried out in February each year for the period 1964 to 1974 and in May 1975 in order to obtain information about persons aged 15 to 24 who had attended full time at a school, university or other educational institution at some time during the previous year. Estimates for the years 1964 to 1974 have been published in previous issues of the Year Book.

In 1975, the questions asked differed from those in other surveys in this series. In addition to information on leavers from educational institutions, the survey in May 1975 obtained information about a number of other aspects of education.

The information about the type of courses attended in 1975 related to courses actually attended at the time of the survey. In earlier surveys conducted in February (before the commencement of the academic year for some institutions) the information was of necessity partly a reflection of expectations.

For the May 1975 survey, leavers from schools, universities or other educational institutions were defined as persons who, at the time of the survey, were not attending an educational institution full-time in a course normally lasting at least one academic year, and who had completed or withdrawn from such a course at an Australian educational institution in 1974 or 1975. Non-leavers were defined as persons who, at the time of the survey, were attending an Australian educational institution full time in a course normally lasting at least one academic year and who had done so in 1974.

For surveys prior to 1975, leavers from schools, universities or other educational institutions were defined as persons who had attended an educational institution full time in the previous year, and who had not returned, or did not intend to return, to full-time education in the current year. Non-leavers were defined as those who were continuing their full-time education in the current year.

The estimates relate to all persons in the age group 15 to 24 years, except members of the permanent armed forces and certain diplomatic personnel customarily excluded from census and estimated populations. Certain categories of persons covered by the survey were not asked the survey questions. These comprised persons who were patients in hospitals and sanitoria, or inmates of gaols, reformatories, etc., and for whom, for the purposes of this survey, the institution was regarded as their dwelling, and persons reported as permanently unable to work. An estimate of the total number of such persons is shown in the first table in this section.

For further details reference should be made to the periodic bulletins Survey of Leavers from Schools, Universities or Other Educational Institutions (6.9).

CIVILIANS AGED 15 TO 24 YEARS(a), BY ATTENDANCE OR NON-ATTENDANCE FULL TIME AT A SCHOOL, UNIVERSITY, ETC., IN THE PREVIOUS YEAR AUSTRALIA, MAY 1975

(0000)

| | Males | Females | Persons |
|--|---------|---------|---------|
| Attended school, university, etc., full time in previous year(b)— | | | |
| Returned to full-time education | 316.0 | 283.6 | 599.6 |
| Did not return to full-time education ('leavers') | 123.1 | 115.3 | 238.4 |
| Total | 439.2 | 398,9 | 838.1 |
| Did not attend school, university, etc., full time in previous year(b) | 726.0 | 748.0 | 1,474.0 |
| In hospitals, etc.(c) | 12.5 | 4.3 | 16.8 |
| Total persons aged 15 to 24 years | 1,177.7 | 1,151.2 | 2,328.9 |

⁽a) At the time of the survey. (b) Excludes some patients in hospitals and sanatoria and some inmates of gaols, reformatories, etc., at the time of the survey, and persons permanently unable to work. (c) Estimated numbers of persons within the scope of the survey for whom the hospital, sanatorium, gaol, reformatory, etc., was regarded as their dwelling, and persons who were reported as permanently unable to work. Particulars of attendance at schools, etc., were not obtained in respect of such persons.

NOTE. Definitions used in this survey differ from those used in other surveys in this series. See text above.

'LEAVERS'(a), BY STATE AND TERRITORY, AUSTRALIA, MAY 1975 ('000)

| | | | | Persons | aged 15–19 | years | Persons aged 15-24 years | | | |
|--------------------|-----|--------|------|---------|------------|---------|--------------------------|---------|---------|--|
| | | | | Males | Females | Persons | Males | Females | Persons | |
| New South Wales | | | | 34.6 | 37.3 | 71.8 | 44.0 | 42.6 | 86.6 | |
| Victoria | | | | 23.3 | 24.8 | 48.2 | 29.5 | 28.5 | 58.0 | |
| Oueensland . | | | | 17.3 | 14.8 | 32.1 | 19.1 | 16.4 | 35.5 | |
| South Australia | | | | 11.2 | . 10.0 | 21.1 | 13.1 | 11.7 | 24.9 | |
| Western Australia | | | | 9.0 | 8.8 | 17.8 | 11.4 | 10.8 | 22.1 | |
| Tasmania . | | | | 2.9 | 3.3 | 6.3 | 3.5 | 3.7 | 7.2 | |
| Australian Capital | Ter | ritory | | * | | 2.4 | 1.7 | * | 2.9 | |
| Australia(b) . | | | | 100.2 | 100.7 | 200.8 | 123.1 | 115.3 | 238.4 | |

⁽a) Persons aged 15 to 24 years inclusive at the time of the survey. For definition see page 703. See also NOTE to previous table. (b) Includes the Northern Territory.

'LEAVERS'(a) BY AGE, AUSTRALIA, MAY 1975 ('000)

| | | | | | | | Age (years) | | | | | | | | |
|------------|------|---------|--------|--------|--------|------|-------------|------|------|------|------|----------------|-------|--|--|
| | | | | , | | | 15 | 16 | 17 | 18 | 19 | 20 and over | Total | | |
| Attended s | choo | l in 19 | 74— | | | | | | | | | | | | |
| Males | | | | | | | 20.7 | 36.1 | 23.7 | 13.4 | 4.0 | * | 100.6 | | |
| Females | | • | • | | • | • | 18.4 | 34.5 | 22.3 | 12.9 | * | * | 90.5 | | |
| Persons | | | | | | | 39.1 | 70.5 | 46.0 | 26.2 | 5.8 | • | 191.1 | | |
| Attended a | ny e | ducati | onal i | nstitu | tion(b |) in | | | | | | | | | |
| Males | | | | | | | 20.7 | 36.1 | 24.3 | 14.4 | 6.1 | 21.7 | 123.1 | | |
| Femal | es | • | • | • | | | 18.4 | 35.4 | 27.4 | 15.5 | 4.6 | 14.0 | 115.3 | | |
| Persons | | | | | | | 39.1 | 71.4 | 51.7 | 29.9 | 10.7 | 35.6 | 238.4 | | |

⁽a) See note (a) to previous table. (b) Includes school.

^{*} Estimates are not published as they would be subject to sampling variability too high for practical purposes. Although figures for these small components can be derived by subtraction they should not be regarded as reliable.

^{*} See note * to previous table.

PERSONS AGED 15 TO 24 YEARS IN FEBRUARY WHO ATTENDED FULL TIME AT A SCHOOL, UNIVERSITY, ETC., IN THE PREVIOUS YEAR, BY TYPE OF INSTITUTION ATTENDED AND WHETHER OR NOT RETURNED TO FULL TIME EDUCATION MAY 1975, AUSTRALIA ('000)

Institution attended full time in previous year College of advanced education Technical School University **(b)** college Other Total Males-Returned to full-time education in 1975(a)-At same type of institution 229.4 37.7 18.3 289.4 25.7 At different type of institution 26.7 255.0 Total . 38.0 18.3 316.0 Did not return to full-time edu-100.6 9.5 7.3 cation in 1975 ('leavers')(a) 5.2 123.1 355.6 47.4 25.5 9.0 439.2 Total males . Females— Returned to full-time education in 1975(a)---At same type of institution 200.6 20.7 25.7 249.8 32.4 33.8 At different type of institution 233.0 25.7 283.6 Total . 21.6 Did not return to full-time education in 1975 ('leavers')(a) 90.5 5.0 8.9 7.5 115.3 Total females 323.5 26.6 34.6 10.2 4.0 398.9 Persons-Returned to full-time education in 1975(a)— 430.0 539.2 At same type of institution 58.3 44.0 5.3 At different type of institution 58.1 60.5 488.0 59.5 44.0 6.4 599.6 Total . Did not return to full-time edu-4.0 238.4 cation in 1975 ('leavers')(a) 191.1 14.5 16.1 12.8 679.1 74.0 60.1 19.2 5.6 838.1 Total persons

Multiple jobholding

In August 1975 a survey, based on the quarterly population survey (see page 689), was conducted throughout Australia to obtain information about the nature and extent of multiple jobholding. The results of earlier surveys of multiple jobholding were given in Year Book No. 54, pages 1162-6 (August 1966 and 1967), Year Book No. 58, pages 707-10 (May 1971), and Year Book No. 60, pages 708-9 (August 1973).

In these surveys persons were classified as multiple jobholders if, during the survey week, they:

(a) worked in a second job or held a second job from which they were temporarily absent, and
(b) were employed in at least one of their jobs as a wage or salary earner. Work as an unpaid family helper or service in the reserve defence forces was not regarded as a second job. Persons who by nature of their employment worked for more than one employer, e.g. domestics, odd-job men, baby-sitters, etc., were not counted as multiple jobholders unless they also held another job of a different kind; nor were those who worked for more than one employer solely by reason of changing jobs during the survey week.

The table of standard errors and the comments on the reliability of estimates given on pages 691-2 are also applicable to this survey.

Further details of the survey were published in Multiple Jobholding, August 1975 (6.10).

⁽a) Definitions used in this survey differ from those used in other surveys in this series. See text on page 703. (b) Includes teachers colleges.

* See note * to first table on previous page.

MULTIPLE JOBHOLDERS, AUGUST 1975(a)

| | Number | ('000) | | Per cent | of labour fo | rce(b) |
|--------------------------------|--------|---------|---------|----------|--------------|---------|
| | Males | Females | Persons | Males | Females | Persons |
| Total(c) | 151.9 | 45.2 | 197.1 | 3.9 | 2.2 | 3.3 |
| New South Wales | 45.8 | 13.1 | 58.9 | 3.3 | 1.8 | 2.8 |
| Victoria | 45.5 | 11.4 | 56.9 | 4.3 | 2.0 | 3.5 |
| Queensland | 17.4 | 6.8 | 24.2 | 3.1 | 2.5 | 2.9 |
| South Australia | 17.3 | 6.8 | 24.1 | 4.8 | 3.5 | 4.4 |
| Western Australia | 17.8 | 5.0 | 22.8 | 5.4 | 2.9 | 4.5 |
| Tasmania | 5.2 | 1.5 | 6.7 | 4.5 | 2.7 | 3.9 |
| Australian Capital Territory | 2.7 | • | 3.1 | 5.1 | | 3.5 |
| Capital cities (d) | 86.2 | 31.6 | 117.8 | 3.6 | 2.2 | 3.1 |
| Other areas | 65.7 | 13.6 | 79.3 | 4.5 | 2.1 | 3.8 |
| Stilci alcas | | | | | _ | |
| Married | 120.0 | 28.0 | 148.0 | 4.3 | 2.2 | 3.6 |
| Not married(e) | 31.9 | 17.1 | 49.1 | 2.9 | 2.3 | 2.6 |
| A == (vaa==) | | | | | | |
| Age (years)—— 15–19 | 8.6 | 5.5 | 14.1 | 2.4 | 1.7 | 2.1 |
| 20–24 | 23.7 | 8.0 | 31.7 | 4.7 | 2.2 | 3.7 |
| 25–34 | 52.7 | 12.9 | 65.6 | 5.3 | 2.8 | 4.5 |
| 35-44 | 33.1 | 9.5 | 42.6 | 4.4 | 2.4 | 3.7 |
| 45–54 | 25.7 | 6.1 | 31.7 | 3.5 | 1.8 | 3.0 |
| 55 and over | 8.2 | * | 11.3 | 1.5 | * | 1.6 |
| 33 and over | 0.2 | | | | | |
| Born in Australia | 123.2 | 35.0 | 158.2 | 4.4 | 2.3 | 3.6 |
| Born outside Australia | 28.7 | 10.3 | 38.9 | 2.7 | 1.9 | 2.5 |
| United Kingdom and Ireland . | 13.9 | 4.8 | 18.7 | 3.6 | 2.4 | 3.2 |
| Other countries | 14.9 | 5.4 | 20.2 | 2.3 | 1.6 | 2.0 |
| Arrived in Australia | | | | | | |
| Before 1955 | 7.7 | * | 9.9 | 2.4 | * | 2.3 |
| 1955–1961 | 7.2 | * | 9.4 | 3.1 | * | 2.7 |
| 1962–1967 | 6.2 | * | 8.7 | 3.0 | * | 2.7 |
| 1968-August 1975 | 7.7 | • | 10.9 | 2.6 | • | 2.3 |
| Occupation of main job— | | | | | | |
| Professional and technical | 26.6 | 8.6 | 35.1 | 6.7 | 2.9 | 5.1 |
| Administrative, executive and | | | | ••• | | • • • |
| managerial | 10.9 | * | 11.9 | 3.4 | | 3.3 |
| Clerical | 15.5 | 17.5 | 33.1 | 4.9 | 2.5 | 3.3 |
| Sales | 11.8 | 5.7 | 17.5 | 5.0 | 2.2 | 3.5 |
| Farmers, fishermen, timber- | | | | | | |
| getters, etc | 17.4 | * | 19.5 | 4.9 | * | 4.6 |
| Transport and communication . | 10.7 | * | 11.2 | 3.5 | * | 3.2 |
| Tradesmen, production-process | | | | | | |
| workers, etc. (f) | 50.3 | * | 51.6 | 2.9 | * | 2.6 |
| Service, sport and recreation | 8.8 | 8.4 | 17.2 | 4.4 | 2.3 | 3.0 |
| Occupation of second job- | | | | | | |
| Professional and technical | 27.6 | 9.6 | 37,2 | | | |
| Administrative, executive and | 21.0 | 2.0 | 31.2 | | | |
| managerial | * | * | | | | |
| Clerical | 7.3 | 10.6 | 17.9 | | | |
| Sales | 12.9 | 5.9 | 18.7 | | | |
| Farmers, fishermen, timber- | 12.9 | 3.9 | 10.7 | | | |
| getters, etc | 30.3 | | 32.7 | | | |
| Transport and communication . | 8.6 | | 9.7 | | | |
| Tradesmen, production-process | 0.0 | | 2.7 | | | |
| workers, etc. (f) | 27.8 | * | 29.1 | | | |
| Service, sport and recreation. | 34.1 | 14.0 | 48.1 | | | |
| , opore and recreation . | J7.1 | 17.0 | 70.1 | | | |

⁽a) Non-institutional civilians aged 15 years and over. (b) Multiple jobholders in each group as a percentage of the labour force in the same group. (c) Includes the Northern Territory. (d) Statistical Divisions of the six State capital cities as defined in Census of Population and Housing, 30 June 1971, see pages 142-3. (e) Never married, widowed and divorced. (f) Includes miners, quarrymen and related workers.

^{*} Subject to sampling variability too high for most practical purposes. Although figures for some of these small components can be derived by subtraction, they should not be regarded as reliable.

Labour force experience

In February 1975 and 1976 surveys based on the quarterly population survey (see page 689) were conducted throughout Australia to obtain information about the labour force experience during the previous year of civilians aged fifteen years and over. Information obtained included the length of time (in the previous year) during which persons were employed, unemployed or not in the labour force, the number of times they were unemployed and other aspects of labour force experience. The results of earlier surveys of labour force experience, conducted in February 1969 and 1973 were given in Year Book No. 57, pages 695–700 and Year Book No. 60, pages 710–1, respectively.

A summary of the results of the survey conducted in February 1976 is shown below. The results of the survey conducted in February 1975 were published in *Labour Force Experience During 1974*, February 1975 (6.26).

Each person was assigned to a labour force category for each week in 1975, on the basis of his actual activity (i.e. whether working, looking for work, etc.) during that week. The principal categories appearing in the tables are as follows:

- (i) Persons in the labour force. A person was classified as having been in the labour force during any week in which he was employed or unemployed as defined in (ii) and (iii) below.
- (ii) Employed person. A person was classified as having been employed during a week if, in that week, he: (a) did any work for pay, profit, commission or payment in kind, in a job or business, or on a farm (including employees, employers and self-employed persons), or (b) worked fifteen hours or more without pay in a family business (or farm), or (c) had a job, business or farm, but was on paid leave (including sick leave).
- (iii) Unemployed persons. A person was classified as having been unemployed during a week if, in that week, he did not work at all, and either: (a) did not have a job or business and was looking for work, or (b) was laid off from his job without pay for the whole week.
- (iv) Persons out of the labour force are all those who, in any week, were not in the categories "employed" or "unemployed", as defined above. For the purposes of this survey a person who was on strike and who did no work during a week was classified as out of the labour force in that week.

A person was classified as having worked mostly full time in 1975 if the number of weeks in which he worked 35 hours or more (full-time work) exceeded or was equal to the number of weeks in which he worked less than 35 hours (part-time work). If the number of weeks worked full time was less than the number of weeks worked part time he was classified as having worked mostly part time. When absent on paid leave (including paid sick leave) he was classified according to the usual hours worked in the job from which he was absent.

The table of standard errors and the comments on the reliability of estimates given on pages 691-2 are also applicable to this survey.

Further details of the survey were published in Labour Force Experience During 1975, February 1976 (6.26).

PERSONS EMPLOYED (a) AT SOME TIME DURING 1975, BY DURATION OF EMPLOYMENT IN THE YEAR
('000)

| Persons | All females | Married women | Males | Duration of employment (weeks) | | | | | | Du | |
|---------|----------------|------------------|---------|--------------------------------|--|--|--|----|-------|-----|-----|
| 101.2 | 59.7 | 31.8 | 41.5 | | | | | 4 | under | and | 1 : |
| 281.4 | 177.3 | 118.8 | 104.1 | | | | | 13 | •• | ,, | 4 |
| 282.0 | 181.5 | 131.6 | 100.6 | | | | | 26 | ,, | ,, | 13 |
| 412.4 | 242.5 | 171.4 | 169.9 | | | | | 39 | ,, | ,, | 26 |
| 511.0 | 236.1 | 150.4 | 274.9 | | | | | 49 | ,, | ,, | 39 |
| 146.3 | 55.6 | 35.8 | 90.7 | •. | | | | 52 | ,, | ,, | 49 |
| 4,635.0 | 1,396.4 | 910.2 | 3,238.6 | .` | | | | • | • " | | 52 |
| 6,369.3 | 2,349.0 | 1,550.1 | 4,020.3 | | | | | | Total | | |

PERSONS UNEMPLOYED(a) AT SOME TIME DURING 1975, BY DURATION OF UNEMPLOYMENT

('000)

| Du | Duration of unemployment (weeks) | | | | Males | Married women | All females | Persons | | |
|-----|----------------------------------|-------|----|--|-------|------------------|----------------|---------|-------|-------|
| 1 : | and | under | 2 | | | | 31.5 | 23.7 | 45.1 | 76.6 |
| 2 | | ** | 4 | | | | 68.8 | 36.0 | 68.3 | 137.1 |
| 4 | ,, | ,, | 8 | | | | 98.0 | 36.7 | 80.1 | 178.0 |
| 8 | ,, | ,, | 13 | | | | 84.5 | 30.3 | 56.1 | 140.6 |
| 13 | ,, | ,, | 26 | | | | 76.9 | 27.8 | 54.9 | 131.8 |
| 26 | ,, | ,, | 52 | | | | 66.1 | 23.0 | 50.2 | 116.3 |
| 52 | | • " | | | | | 14.4 | 8.3 | 15.6 | 30.1 |
| | | Total | | | | | 440.2 | 185.8 | 370.3 | 810.5 |

⁽a) Non-institutional civilians aged 15 years and over.

CIVILIAN POPULATION(a), FEBRUARY 1976, BY EMPLOYMENT STATUS IN 1975 ('000)

| Employment status | | | | Males | Married women | All females | Persons |
|--|----|---|---|---------|------------------|----------------|---------|
| Civilian population in February 1976(a) . | | | | 4,811.4 | 3,257.6 | 4,893.0 | 9,704.3 |
| In the labour force at some time during 1975 | | | | 4,078.5 | 1,597.9 | 2,440.2 | 6,518.7 |
| For the whole year | | | | 3,487.5 | 957.6 | 1,514.6 | 5,002.1 |
| For part of the year | | | | 591.0 | 640.3 | 925.6 | 1,516.6 |
| Employed at some time during 1975 . Mostly full time— | | | | 4,020.3 | 1,550.1 | 2,349.0 | 6,369.3 |
| No part-time work | | | _ | 3,805.7 | 925.5 | 1,553.6 | 5,359.2 |
| Some part-time work | | | | 57.5 | 37.6 | 56.8 | 114.3 |
| Mostly part-time— | | | | | | | |
| No full-time work | | | | 136.3 | 556.7 | 690.4 | 826.7 |
| Some full-time work | | | | 20.8 | 30.2 | 48.2 | 69.0 |
| Number of jobs held during 1975— | | | | | | | |
| One | | | | 3,276.3 | 1,360.2 | 1,999.1 | 5,275.4 |
| Two | | | | 542.3 | 153.5 | 269.6 | 811.8 |
| Three | | | | 120.2 | 22.9 | 47.4 | 167.6 |
| Four | | | | 38.0 | 6.5 | 16.2 | 54.2 |
| Five | | | | 20.3 | * | 6.3 | 26.6 |
| Six or more | | • | | 23.2 | 4.5 | 10.5 | 33.6 |
| Unemployed at some time during 1975 . | | | | 440.2 | 185.8 | 370.3 | 810.5 |
| One period of unemployment | | | | 326.8 | 149.9 | 301.7 | 628.5 |
| Two periods | | | | 54.0 | 14.9 | 36.0 | 90.0 |
| Three periods | | | · | 28.6 | 8.9 | 14.7 | 43.3 |
| Four or more periods | | • | • | 30.8 | 12.0 | 17.9 | 48.8 |
| Out of the labour force for the whole of 197 | 5. | | | 732.9 | 1,659.7 | 2,452.8 | 3,185.6 |

⁽a) Non-institutional civilians aged 15 years and over.

[•] Estimates less than 4,000 are not published because they are subject to sampling variability too high for most practical purposes. Although figures for these small components can be derived by subtraction, they should not be regarded as reliable.

Labour mobility

In February 1975 and 1976 surveys based on the quarterly population survey (see page 689) were conducted throughout Australia to obtain information about changes of employment or job location and other aspects of the mobility of the labour force.

A summary of the results of the survey conducted in February 1976 is shown below. The results of the survey conducted in February 1975 were published in Labour Mobility, February 1975 (6.43).

For the purposes of the survey, a job was defined as: (i) employment as a wage or salary earner (or unpaid family helper) by a particular employer, in a particular locality; or (ii) self-employment (with or without employees) in a particular locality. Thus, a change of job may have involved a change of employer without a change of job locality; a change of locality without a change of employer; or a change in both employer and locality. For example, the movement of an employer's operations to premises in a different locality would entail a change of job for employees who moved to the new location. Promotion or transfer of an employee which involved a move to premises in a different locality would also constitute a change of job. In capital cities and major towns, each suburb was considered to be a different locality; otherwise, each town and each country area associated with a town constituted a separate locality. It should be noted, however, that for a person who worked at different sites for the same employer (for example, a construction worker), his base of operations (i.e. his employer's office, depot, yard, etc.) was considered to be his place of work.

A temporary job was defined as a job of a temporary nature (e.g. relieving for someone who was away) in which the occupant had worked less than three months at the time of the survey.

The definitions of labour force categories used in this survey are the same as those used in the quarterly population survey. See page 689.

The table of standard errors and the comments on the reliability of estimates given on pages 691-2 are also applicable to this survey.

Further details of the survey were published in Labour Mobility, February 1976 (6.43).

LABOUR MOBILITY: SUMMARY OF CHARACTERISTICS(a)

| | | | | | Males | Females | Persons |
|--|------|-----------|-------|------|---------|---------|----------------|
| Civilian population (b) in February 1976. | | | | | 4,811.4 | 4,893.0 | 9,704.3 |
| In the labour force at some time during 1975 | | | | | 4,078.5 | 2,440.2 | 6,518.7 |
| Employed at some time during 1975. Number of employers worked for (c) (or | | cinarcar | | rina | 4,020.3 | 2,349.0 | 6,369.3 |
| 1975— | ou: | 311163363 | , | img | | | |
| 1 | | | | • | 3,416.6 | 2,045.4 | 5,462.0 |
| $\frac{2}{2}$ · · · · · · · | • | • | ٠ | • | 444.7 | 240.2 | 684.9 138.8 |
| 3 , , , , , , , , , , , , , , , , , , , | ٠ | • | • | • | 99.0 | 39.8 | 83.6 |
| 4 and over | • | • | • | • | 60.0 | 23.6 | |
| Not employed at the end of 1975 . | • | • | • | • | 271.1 | 419.4 | 690.5 |
| Employed at the end of 1975 | | | . • | • | 3,749.1 | 1,929.6 | 5,678.7 |
| For one year or more in job held at the e | | | | • | 2,964.2 | 1,402.9 | 4,367.1 |
| For less than one year in job held at the | | of 197 | 5. | | 784.9 | 526.7 | 1,311.6 |
| Did not have a previous job in the yea | r | | | | 165.9 | 252.7 | 418.6 |
| Had a previous job in the year . | | | | | 619.0 | 274.0 | 893.0 |
| Did not change usual residence when o | btai | ning jo | b hel | d at | | | |
| the end of 1975 | | | | | 629.1 | 456.2 | 1,085.4 |
| Changed usual residence when obtain | ing | iob he | ld at | the | | | |
| end of 1975 | | | | | 155.8 | 70.5 | 226.2 |
| Left a job in 1975 | | · | | | 889.9 | 693.3 | 1,583.2 |
| Did not leave a job in 1975 | | | | | 3,130.4 | 1,655.7 | 4,786.1 |
| Out of the labour force for the whole of 1975 | | | | | 732.9 | 2,452.8 | 3,185.6 |

⁽a) For definitions, see text above. (b) Non-institutional civilians aged 15 years and over. (c) Not including second jobs of multiple jobholders.

NOTE. The estimates relate to labour mobility in 1975 of persons covered by the survey in February 1976. Because of emigration, deaths and other exits not all persons employed in 1975 were covered. Labour mobility may relate to experience outside Australia.

PERSONS(a) EMPLOYED AT SOME TIME IN 1975: NUMBER OF EMPLOYERS OR BUSINESSES IN 1975 AND CHANGE IN LOCATION WHILE WITH THE SAME EMPLOYER OR IN THE SAME BUSINESS IN 1975

('000)

| Change in location while the same employer or in t | | | | | N | umber of emp | loyers or bi | ısinesses | in 1975 | |
|---|--------|---|---|------------|----|----------------------|---------------|----------------|-------------|-------------------------|
| same business in 1975 | ne | _ | | | | 1 | 2 | 3 | 4 and over | Total |
| | | | | | М | ALES | | | | . |
| Did not change location Changed location . Number of changes— | | | | | · | 3,274.0 142.5 | 422.9 21.9 | 94.0 5.0 | 55.4 4.6 | 3,846.3 174.0 |
| 1 | · · | | : | : | : | 117.5 12.1 5.3 | 17.2 | 4.5 | {: | 139.5 17.0 7.4 |
| 4 and over . Total | | | | | | 7.7 3,416.6 | 444.7 | 99.0 | 60.0 | 10.1 4,020.3 |
| | | | | · <u>-</u> | FE | MALES | | _ | | |
| Did not change location Changed location . Number of changes— | : | | : | : | • | 1,997.1 48.3 | 230.8 | 37.4 | 22.4 | 2,287.8 61.2 |
| 1 2 and over . | | | : | : | : | 39.6 8.6 | 7.3 | * | * | 48.9 12.3 |
| Total | • | • | • | • | • | 2,045 . 4 | 240.2 | 39.8 | 23.6 | 2,349.0 |
| | | | | | F | PERSONS | | | | |
| Did not change location Changed location . Number of changes— | • | | | : | | 5,271.2 190.8 | 653.7 31.3 | 131.4 7.4 | 77.8 5.7 | 6,134.1 235.2 |
| 1 | | | : | : | : | 157.1 15.0 6.7 | 24.6 | 4.2 {* * | * | 188.5 21.5 9.9 |
| 4 and over . Total | • | • | • | • | • | 12.0 5,462.0 | * 684.9 | 138.8 | * 83.6 | 15.3 6,369 .3 |

⁽a) Non-institutional civilians aged 15 years and over.

^{*} Estimates less than 4,000 are not published as they are subject to sampling variability too high for most practical purposes. Although figures for these small components can be derived by subtraction, they should not be regarded as reliable.

PERSONS(a) EMPLOYED AT THE END OF 1975: OCCUPATION AND DURATION OF JOB (b) (*000)

| | | | (00 | " | | | | | |
|---|--|--|---|---------------------------------------|--|--|--|---|---|
| Duration of job(b) held at the end of 1975 | Profes- sional and technical, etc. | Idminis- trative, execu- tive and mana- gerial | Clerical | Sales | Farmers, fisher- men, timber- getters, etc. | Trans- port and com- muni- cation | Trades- men, etc., n.e.c.(c) | Service, sport and recrea- tion | Total |
| | | | MAL | ES | | | | | |
| Under 3 months— Temporary Permanent | 5.6 14.9 | 11.5 | 7.1 16.8 | 7.1 16.4 | 8.9 12.7 | 4.0 19.0 | 32.8 101.0 | 5.9 14.8 | 72.1 207.2 |
| Total under 3 months. | 20.4 | 12.3 | 23.9 | 23.5 | 21.6 | 23.0 | 133.8 | 20.7 | 279.3 |
| 3 months and under 6 months 6 months and under 1 year. | 15.6 36.4 | 14.9 20.9 | 19.1 30.4 | 16.5 26.1 | 11.6 16.3 | 14.5 23.0 | 90.9 139.7 | 13.0 16.8 | 196.0 309.6 |
| Under 1 year | 72.5 | 48.I | 73.4 | 66.1 | 49.4 | 60.4 | 364.5 | 50.6 | 784.9 |
| 1 year and under 2 years 2 years and under 3 years 3 years and under 4 years 4 years and under 5 years 5 years and over | 53.4 46.3 42.6 29.8 173.6 | 31.9 25.7 29.3 20.4 169.9 | 43.2 35.0 25.0 17.8 128.3 | 31.8 23.3 19.3 12.0 72.2 | 29.5 26.3 26.1 15.4 196.3 | 33.8 25.7 26.0 15.8 135.5 | 180.3 167.5 148.1 99.8 667.5 | 22.4 20.6 20.6 12.8 63.1 | 426.4 370.5 337.0 223.9 1,606.4 |
| Total | 418.2 | 325.5 | 322.7 | 224 7 | 343.0 | 297.3 | 1,627.7 | 190.I | 3,749.1 |
| | | | FEMA | LES | | | · | | |
| Under 3 months— Temporary Permanent | * 11.4 | : | 13.2 43.1 | 9.5 21.7 | : | : | 5.8 15.1 | 11.8 25.5 | 47.3 123.0 |
| Total under 3 months. 3 months and under 6 months 6 months and under 1 year. | 15.2 14.8 36.1 | : | 56.3 50.6 79.9 | 31.2 18.1 33.8 | 4.9 | {4.8 ∗ 4.0 | 20.9 19.7 24.9 | 37.3 25.9 38.2 | 170.2 134.5 222.0 |
| Under 1 year | 66.1 | 5.0 | 186.9 | 83.1 | 7.6 | 11.1 | 65.4 | 101.4 | 526.7 |
| 1 year and under 2 years 2 years and under 3 years 3 vears and under 4 years 4 years and under 5 years 5 years and over | 62.1 42.1 33.2 19.1 70.8 | 4.2 6.4 20.2 | 113.8 100.5 { 69.9 43.0 165.7 | 41.6 33.0 25.9 13.1 47.3 | 5.1 6.0 5.2 * 38.1 | 7.7 5.5 6.3 13.5 | $ \begin{array}{c} 26.8 \\ 31.0 \\ 27.8 \\ 14.4 \\ 71.5 \end{array} $ | 50.0 39.6 33.5 22.2 79.3 | 311.1 261.9 201.5 121.9 506.5 |
| Total | 293.4 | 39.8 | 679.8 | 244.0 | 65.5 | 44.2 | 236.9 | 326.0 | 1,929.6 |
| | | | PERS | ONS | | | | | |
| Under 3 months— Temporary Permanent | 9.4 26.3 | 13.0 | 20.3 60.0 | 16.6 38.1 | 10.3 14.0 | 5.4 22.3 | 38.6 116.1 | 17.7 40.3 | 119.4 330.1 |
| Total under 3 months. | 35.6 | 14.1 | 80.3 | 54.7 | 24.3 | 27.8 | 154.7 | 58.0 | 449.5 |
| 3 months and under 6 months 6 months and under 1 year. | 30.5 72.5 | 15.8 23.2 | 69.7 110.2 | 34.6 59.9 | 13.7 19.1 | 16.7 27.0 | 110.6 164.6 | 38.9 55.1 | 330.5 531.5 |
| Under 1 year | 138.6 | 53.2 | 260.3 | 149.1 | 57.1 | 71.5 | 429.9 | 152.0 | 1,311.6 |
| 1 year and under 2 years 2 years and under 3 years 3 years and under 4 years 4 years and under 5 years 5 years and over | 115.4 88.4 75.8 49.0 244.5 | 35.9 29.9 32.4 23.7 190.1 | 157.0 135.5 94.9 60.8 294.0 | 73.5 56.3 45.2 25.1 119.5 | 34.6 32.3 31.3 18.8 234.4 | 41.5 31.3 28.9 19.3 149.0 | 207.2 198.5 175.8 114.2 739.0 | 72.4 60.2 54.1 34.9 142.4 | 737.5 632.4 538.5 345.8 2,112.9 |
| Total | 711.6 | 365.2 | 1,002.5 | 468.7 | 408.5 | 341.5 | 1,864.6 | 516.1 | 5,678.7 |
| | | | | | | | | | |

⁽a) See note (a) previous page. (b) For definition see page 709. (c) Includes miners and quarrymen, metal trades workers, building workers, and other tradesmen, production-process workers and labourers, n.e.c.

* See footnote * to table on the previous page.

Child care

In May 1973 a survey, based on the quarterly population survey (see page 689), was conducted throughout Australia in order to obtain, for persons who were in the labour force and who also had the responsibility for the care of children under twelve years of age, information about the arrangements they made to have their children cared for while they themselves were at work (including arrangements for after-school and school holiday care). The inquiry was directed mainly to working mothers, but males with the sole responsibility for children were also included. The results of the survey were published in Year Book No. 60, pages 715-7.

Superannuation

In February 1974 a survey, based on the quarterly population survey (see page 689), was conducted throughout Australia to obtain information about employed persons covered by superannuation-type schemes and those not so covered, and about other persons who were receiving or had received benefits from such schemes. The results of the survey were published in Year Book No. 60, pages 717-9.

Frequency of pay

In August 1974 a survey was conducted in conjunction with the quarterly population survey (see page 689) in order to obtain information about the frequency of pay of wage and salary earners. The results of a similar survey conducted in February 1969 were published in Labour Force Experience During 1968 (6.26).

For the purposes of this survey, questions were asked of employed wage and salary earners, excluding those persons whose main activity during the survey week was attendance at an educational institution, even though they may have done some work for pay or profit for an employer. Employers, self-employed persons and unpaid family helpers were excluded from the survey.

The table of standard errors and the comments on the reliability of estimates given earlier in this chapter are also applicable to this survey.

Further details of the survey were published in Frequency of Pay, August 1974 (6.46).

EMPLOYED WAGE AND SALARY EARNERS(a): INDUSTRY AND FREQUENCY OF PAY, AUSTRALIA, AUGUST 1974

| | | 1 | requency o | of pay | | | | |
|---|---------|---------------------|------------|----------|-------|----------|---------|----------|
| - Industry | | ekly or re often | For | tnightly | М | onthly | T | otal(b) |
| - - | '000 | Per cent | ,000 | Per cent | '000 | Per cent | '000 | Per cent |
| | | MA | LES | | | | | |
| Agriculture | 31.1 | 33.1 | 21.6 | 23.0 | 28.4 | 30.2 | 94.0 | 100.0 |
| Forestry, fishing and hunting | 6.8 | 34.9 | 8.1 | 41.9 | | * | 19.4 | 100.0 |
| Mining and quarrying | 27.4 | 40.6 | 33.6 | 49.8 | 6.4 | 9.5 | 67.4 | 100.0 |
| Manufacturing | 730.2 | 77.4 | 132.7 | 14.1 | 79.0 | 8.4 | 943.2 | 100.6 |
| Electricity, gas and water | 43.3 | 46.6 | 49.2 | 53.0 | * | | 92.8 | 100.0 |
| Construction | 251.1 | 71.1 | 87.5 | 24.8 | 12.8 | 3.6 | 353.1 | 100.0 |
| Wholesale and retail trade | 415.4 | 80.6 | 36.0 | 7.0 | 61.6 | 12.0 | 515.6 | 100.0 |
| Transport and storage | 110.3 | 49.9 | 99.7 | 45.1 | 9.3 | 4.2 | 221.0 | 100.0 |
| Communications | | * | 91.0 | 97.8 | | | 93.0 | 100.0 |
| Finance, insurance, real estate and | | | | | | | | |
| business services | 53.2 | 28.1 | 109.5 | 57.8 | 24.4 | 12.9 | 189.5 | 100.0 |
| Public administration and defence . | 20.5 | 12.3 | 144.3 | 86.7 | * | * | 166.4 | 100.0 |
| Community services | 35.0 | 13.9 | 190.0 | 75.5 | 20.4 | 8.1 | 251.7 | 100.0 |
| Entertainment, recreation, restaurants, | | | | | | | | |
| hotels and personal services | 79.0 | 80.0 | 13.3 | 13.5 | 5.6 | 5.7 | 98.8 | 100.0 |
| Total | 1,805.1 | 58.1 | 1,016.3 | 32.7 | 250.6 | 8.1 | 3,105.8 | 100.0 |
| | - | FEMA | ALES | | | | | |
| Agriculture, forestry, fishing, etc. | 8.1 | 49.8 | | * | | | 16.3 | 100.0 |
| Mining and quarrying | * | * | | | * | | * | 100.0 |
| Manufacturing | 317.9 | 91.6 | 20.1 | 5.8 | 7.4 | 2.1 | 347.1 | 100.0 |
| Electricity, gas and water | * | | 4.9 | 65.0 | | | 7.6 | 100.0 |
| Construction | 15.0 | 81.7 | * | | * | * | 18.3 | 100.0 |
| Wholesale and retail trade | 345.3 | 90.6 | 22.3 | 5.8 | 9.6 | 2.5 | 381.0 | 100.0 |
| Transport and storage | 22.6 | 64.8 | 11.0 | 31.4 | | | 34.9 | 100.0 |
| Communication | * | | 29.9 | 93.8 | • | * | 31.9 | 100.0 |
| Finance, insurance, real estate and busi- | | | | | | | | |
| ness services | 79.1 | 43.5 | 91.9 | 50.6 | 7.3 | 4.0 | 181.9 | 100.0 |
| Public administration and defence . | 7.4 | 9.7 | 67.4 | 88.2 | • | * | 76.4 | 100.0 |
| Community services | 75.5 | 17.4 | 333.9 | 76.8 | 14.9 | 3.4 | 434.8 | 100.0 |
| Entertainment, recreation, restaurants, | | | | - | | | | |
| hotels and personal services | 145.5 | 88.6 | 12.0 | 7.3 | • | • | 164.3 | 100.0 |
| Total | 1,020.9 | 60.1 | 600.8 | 35.4 | 49.9 | 2.9 | 1,698.1 | 100.0 |

For footnotes see end of table.

EMPLOYED WAGE AND SALARY EARNERS(a): INDUSTRY AND FREQUENCY OF PAY, AUSTRALIA, AUGUST 1974—continued

| | | | | Frequenc | y of pay | | | | |
|--|------|-------------------------|----------|----------|-----------|---------|----------|----------|----------|
| Industry | | Weekly or more often | | For | rtnightly | Monthly | | Total(b) | |
| | | ,000 | Per cent | '000 | Per cent | ,000 | Per cent | .000 | Per cent |
| | | | PERS | ONS | | | | | |
| Agriculture | | 38.2 | 35.1 | 24.0 | 22.0 | 30.9 | 28.4 | 108.9 | 100.0 |
| Forestry, fishing and hunting . | | 7.8 | 37.3 | 8.5 | 41.0 | | | 20.8 | 100.0 |
| Mining and quarrying | | 28.5 | 40.1 | 35.6 | 50.1 | 6.7 | 9.5 | 71.0 | 100.0 |
| Manufacturing | . 1 | ,048.1 | 81.2 | 152.7 | 11.8 | 86.4 | 6.7 | 1,290.2 | 100.0 |
| Electricity, gas and water | | 45.9 | 45.8 | 54.1 | 53.9 | | * | 100.4 | 100.0 |
| Construction | | 266.1 | 71.6 | 90.0 | 24.2 | 13.7 | 3.7 | 371.5 | 100.0 |
| Wholesale and retail trade | | 760.7 | 84.8 | 58.3 | 6.5 | 71.3 | 7.9 | 896.6 | 100.0 |
| Transport and storage | | 132.9 | 51.9 | 110.6 | 43.2 | 10.5 | 4.1 | 255.9 | 100.0 |
| Communication | | * | | 120.9 | 96.8 | | * | 124.9 | 100.0 |
| Finance, insurance, real estate and be | usi- | | | | , | | | | |
| ness services | | 132.3 | 35.6 | 201.4 | 54.2 | 31.7 | 8.5 | 371.4 | 100.0 |
| Public administration and defence | • | 27.9 | 11.5 | 211.7 | 87.2 | * | * | 242.8 | 100.0 |
| Community services | · · | 110.5 | | 523.9 | 76.3 | 35.2 | 5.1 | 686.4 | 100.0 |
| Entertainment, recreation, restaura- hotels and personal services . | nıs, | 224.6 | 85.4 | 25.3 | 9.6 | 9.2 | 3.5 | 263.1 | 100.0 |
| Total | . 2 | ,826.0 | 58.8 | 1,617.1 | 33.7 | 300.5 | 6.3 | 4,804.0 | 100.0 |

⁽a) Non-institutional civilians aged 15 years and over. (b) Includes 33,900 males and 26,500 females paid at other intervals.

In August 1974 a survey was conducted in conjunction with the quarterly population survey (see page 689) in order to obtain information about the amount and timing of paid annual leave taken by wage and salary earners during the period August 1973 to July 1974. The results of a similar survey conducted in February 1969 were published in Labour Force Experience During 1968 (6.26).

For the purposes of this survey, questions were asked of all employed wage and salary earners, except those persons whose main activity during the survey week was attendance at an educational institution, even though they may have done some work for an employer for pay or profit. Employers, self-employed and unpaid family helpers were excluded from the survey.

Respondents were asked whether they had taken any paid leave or holidays in the period August 1973 to July 1974 and, if so, in which months the leave was taken. Long-service leave (furlough), absence from work on account of illness or injury, and leave without pay were not included. In recording the amount of leave, separate periods of leave taken within a month were aggregated. Provision was not made in the survey for recording leave taken in more than three different months.

The table of standard errors and the comments on the reliability of estimates given earlier in this chapter are also applicable to this survey.

Further details of the survey were published in Annual Leave, August 1974 (6.45).

^{*} Estimates less than 4,000 are not published as they are subject to sampling variability too high for most practical purposes. Although figures for these small components can be derived by subtraction they should not be regarded as reliable.

PERIODS OF PAID LEAVE TAKEN BY EMPLOYED WAGE AND SALARY EARNERS(a) IN EACH MONTH FROM AUGUST 1973 TO JULY 1974, AUSTRALIA

| | | Periods of p | aid leave | | | Total period | | Total weeks | |
|--------------------------|-----|-------------------------------|-------------------------------|---------------------------------|--------------------------------|------------------|----------------------|------------------|----------------------|
| Month | | One-week periods ('000) | Two-week periods ('000) | Three-week periods ('000) | Four-week periods ('000) | Number ('000) | Per cent of total | Number ('000) | Per cent of total |
| | | | | BY N | MALES | | | | |
| 1973— | | | - | | | | | | |
| August . | | 41.9 | 44.0 | 22.0 | 17.1 | 125.0 | 3.8 | 264.3 | 3.9 |
| September . | | 40.8 | 35.8 | 27.2 | 13.1 | 117.0 | 3.5 | 246.6 | 3.6 |
| October . | | 24.1 | 27.4 25.6 | 30.3 25.6 | 14.7 15.3 | 96.5 94.6 | 2.9 2.8 | 228.4 217.3 | 3.3 3.2 |
| November . December . | | 28.1 585.4 | 204.8 | 57.9 | 25.6 | 873.6 | 26.3 | 1,270.9 | 18.6 |
| | | 707.4 | 204.0 | 31.7 | 23.0 | 075.0 | 20.5 | 1,270.5 | 10.0 |
| 1974— | | 160 6 | 460.0 | 200 4 | 127.0 | 939.7 | 20.2 | 2 105 0 | 21.0 |
| January . | | 150.6 | 460.9 | 200.4 | 127.9 | 205.6 | 28.3 6.2 | 2,185.0 472.4 | 31.9 6.9 |
| February . | | 54.6 41.9 | 64.3 49.0 | 57.3 44.9 | 29.3 27.5 | 163.3 | 4.0 | 384.6 | 5.6 |
| March . April . | | 57.8 | 53.1 | 36.7 | 25.3 | 172.9 | 4.9 5.2 | 375.3 | 5.5 |
| May . | | 72.5 | 112.6 | 48.4 | 36.1 | 269.6 | 8.1 | 587.2 | 8.6 |
| June . | | 42.4 | 37.3 | 31.7 | 27.2 | 138.7 | 4.2 | 321.2 | 4.7 |
| July . | | 48.9 | 33.2 | | 23.6 | 132.3 | 4.0 | 289.5 | 4.2 |
| Total | | 1,189.0 | 1,148.0 | | 382.7 | 3,328.7 | 100.0 | 6,842.7 | 100.0 |
| | · | | | | | | | | |
| | | | | BY F | EMALES | | | | |
| 1973— | | | | | | _ | | | |
| August . | | 22.1 | 24.2 | 9.2 | 6.4 | 61.8 | 4.1 | 123.5 | 4.0 |
| September . | | 25.9 | 18.3 | 10.6 | 6.0 | 60.7 | 4 1 | 118.0 | 3.8 |
| October | | 9.7 | 14.2 | 12.6 | 5.7 | 42.2 | 2.8 | 98.7 | 3.2 |
| November . | | 12.5 | 11.4 | | • | 40.6 | 2.7 | 88.8 | 2.9 |
| December . | | 232.8 | 113.6 | 21.0 | 10.8 | 378.1 | 25.3 | 566.1 | 18.3 |
| 1974— | | | | | | | | | |
| January . | | 58.0 | 172.8 | 76.2 | 89.7 | 396.7 | 26.5 | 991.1 | 32.0 7.0 |
| February . | | 27.9 | 27.9 | 28.3 | 12.1 | 96.1 | 6.4 | 216.8 | 7.0 |
| March | | 18.2 | 23.3 | | 9.5 | 74.0 | 4.9 | 171 7 | 5.5 |
| April . | | 21.6 35.5 | 25.3 | | 8.4 | 72.2 | 4.8 | 156.6 | 5.1 |
| May . June . | | 33.3 19.6 | 83.8 20.6 | | 10.8 7.1 | 152.3 60.3 | 10.2 4.0 | 313.1 128.1 | 10.1 4.1 |
| July . | | 24.5 | 16.3 | | 7.8 | 60.9 | 4.1 | 125.3 | 4.0 |
| • | | | | | | | | | |
| Total | · · | 508 2 | 551.6 | 258.6 | 177.6 | 1,496.0 | 100.0 | 3,097.8 | 100.0 |
| | | | | BY P | ERSONS | | | | |
| 1973— | | | | | | | | | |
| August | | 64.0 | 68.1 | 31.2 | 23.5 | 186.8 | 3.9 | 387.8 | 3.9 |
| September | | 66.7 | 54.0 | 37.8 | 19.1 | 177.6 | 3.7 | 364.6 | 3.7 |
| October | | 33.8 | 41.7 | | 20.3 | 138.7 | 2.9 2.8 | 327.1 | 3.3 |
| November . | | 40.7 | 36.9 | 38./ 70.0 | 18.8 36.4 | 135.2 | 26.0 | 306.1 | 3.1 18.5 |
| December | | 818.2 | 318.4 | 78.9 | 30.4 | 1,251.8 | 26.0 | 1,837.0 | 18.3 |
| 1974— | | | | | | | | | |
| January | | 208.5 | 633.7 | | 217.6 | 1,336.5 | 27.7 | 3,176.2 | 32.0 |
| February | | 82.6 | 92.2 | | 41.4 | 301.7 | 6.3 | 689.2 | 6.9 |
| March | | 60.1 79.4 | 72.3 78.3 | 68.0 53.7 | 37.0 33.7 | 237.3 245.1 | 4.9 5.1 | 556.4 531.8 | 5.6 |
| April . May . | | 108.8 | 196.4 | | 33.7 46.9 | 421.9 | 8.8 | 900.3 | 5.4 9.1 |
| June . | | 62.0 | 57.9 | | 34.3 | 199.0 | 4.1 | 449.3 | 7.1 4.4 |
| July . | . : | 73.4 | 49.5 | | 31.4 | 193.2 | 4.0 | 414.8 | 4.5 4.2 |
| Total | | 1,698.2 | 1,699.6 | 867.7 | 560.3 | 4,824.7 | 100.0 | 9,940.6 | 100.0 |
| | | | • | | | | | | |

⁽a) Non-institutional civilians aged 15 years and over who were employed wage and salary earners in August 1974. It should be noted that the figures in this table relate to periods of leave taken and are, therefore, greater than counts of persons who took leave.

^{*} Estimates less than 4,000 are not published as they are subject to sampling variability too high for most practical purposes. Although figures for these small components can be derived by subtraction they should not be regarded as reliable.

School leavers

In May 1975, a survey was conducted in conjunction with the quarterly population survey (see page 689) in order to obtain information on the current employment status and tertiary education experience of persons who had left school during the years 1970 to 1974.

Caution should be exercised in comparing survey results for persons leaving school in different years. It should be borne in mind that the length of time since leaving school can have a marked effect on the work experience of the leaver, e.g. the table below indicates that, in general, the unemployment rate decreases as the period since leaving school increases; the reason being that leavers in the earlier years would generally have had more work experience and a greater opportunity to obtain and keep a job.

Further details of the survey were published in School Leavers, 1970 to 1974: Their Employment Status and Education Experience, May 1975 (6.53).

SCHOOL LEAVERS, 1970 TO 1974: EMPLOYMENT STATUS(a) IN MAY 1975

| Left . | scho | ol in– | _ | | Employed ('000) | Unemployed ('000) | Total labour force ('000) | Unemploy- ment rate (per cent) | Not in the labour force ('000) | Total ('000) |
|--------------------------------------|------|--------|---|---|---|------------------------------------|---|--------------------------------------|--------------------------------------|---|
| | | | | | | MA | ALES | | | |
| 1970 1971 1972 1973 1974 | | | : | : | 101.7 83.9 91.0 101.6 88.9 | 4.6 5.1 7.0 6.3 11.3 | 106.2 88.9 98.0 107.9 100.2 | 4.3 5.7 7.1 5.8 11.3 | 7.3 11.7 17.9 17.7 27.9 | 113.5 100.7 115.9 125.6 128.2 |
| | | | | | | FEM | IALES | | | |
| 1970 1971 1972 1973 1974 | | | | : | 77.6 70.2 69.6 85.7 73.6 | 5.0 4.8 7.5 9.2 16.0 | 82.7 75.1 77.1 94.9 89.7 | 6.1 6.4 9.7 9.7 18.0 | 28.7 23.1 25.8 25.2 33.5 | 111.4 98.1 102.9 120.1 123.2 |
| | | | | | | PE | ERSONS | | | |
| 1970 1971 1972 1973 1974 | : | | | | 179.3 154.1 160.6 187.3 162.5 | 9.6 9.9 14.4 15.4 27.3 | 188.9 164.0 175.1 202.8 189.9 | 5.1 6.0 8.3 7.6 14.4 | 36.0 34.8 43.7 42.9 61.4 | 224.9 198.8 218.8 245.7 251.3 |

⁽a) For definitions see page 690.

Persons not in the labour force

In November 1975, a survey was conducted in conjunction with the quarterly population survey (see page 689) in order to obtain information about persons aged 15 to 64 years who were not in the labour force: in particular, their intentions regarding entering or re-entering the labour force, whether they had ever held a regular job and, if so, how long ago and for what reason they had left it, their educational qualifications, and whether they would like a job if suitable child-care arrangements were available for children for whom they were responsible. A summary of the results of the survey is shown below.

Definitions of *employed*, *unemployed* and *not in the labour force* used in this survey conform to those used in the quarterly population survey (*see* page 689).

A regular job was defined as one which had lasted for two months or more and in which the person had worked at least an average of five hours a week.

Persons included in the survey who were not looking for work were asked to give reasons why they were not doing so. Reasons were ranked in the order of priority in the table below. Where more than one reason was given, only the higher or highest-ranked has been shown.

Discouraged workers were defined as persons who wanted a job but were not looking for work because of any of the following reasons: considered too young or too old by employers; language or racial difficulties; lacked necessary training, skills or experience; or no jobs in locality or line of work.

Further details of the survey were published in *Persons Not in the Labour Force*, November 1975 (6.59).

CIVILIAN POPULATION 15 YEARS OF AGE AND OVER, BY EMPLOYMENT STATUS, NOVEMBER 1975

| | Number | · ('000') | | Per cent of population | | | |
|------------------------------|--------------|-----------|---------|------------------------|---------|---------|--|
| Employment status | Males | Females | Persons | Males | Females | Persons | |
| Employed | 3,769.3 | 2,029.8 | 5,799.1 | 77.8 | 41.1 | 59.3 | |
| Unemployed | 149.6 | 129.5 | 279.1 | 3.1 | 2.6 | 2.9 | |
| Not in the labour force | 924.4 | 2,782.6 | 3,707.1 | 19.1 | 56.3 | 37.9 | |
| Aged 65 years and over | 406.5 | 652.8 | 1.059.3 | 8.4 | 13.2 | 10.8 | |
| Aged 15 to 64 years | 517.9 | 2,129.8 | 2,647.7 | 10.7 | 43.1 | 27.1 | |
| Attending an educational | | | | | | | |
| institution | 291.2 | 251.0 | 542.2 | 6.0 | 5.1 | 5.5 | |
| Permanently unable to work . | 40.1 | 14.2 | 54.3 | 0.8 | 0.3 | 0.6 | |
| Inmate of an institution . | 32.7 | 15.4 | 48.1 | 0.7 | 0.3 | 0.5 | |
| Keeping house, retired or | | | | | | | |
| voluntarily inactive | 153.9 | 1,849.2 | 2,003.1 | 3.2 | 37.4 | 20.5 | |
| Had not looked for work in | | | | | | | |
| the four weeks before in- | | | | | | | |
| terview week | 146.2 | 1,818.3 | 1,964.5 | 3.0 | 36.8 | 20.1 | |
| Other(a) | 7.7 | 30.9 | 38.6 | 0.2 | 0.6 | 0.4 | |
| Total | 4,843.3 | 4,942.0 | 9,785.3 | 100.0 | 100.0 | 100.0 | |

⁽a) Comprises persons who were looking for work in the survey week but had not taken active steps to find a job, and others who had been looking for work in the three weeks before the survey week. These persons are not classified as unemployed.

PERSONS AGED 15 TO 64 YEARS NOT IN THE LABOUR FORCE WHO WERE KEEPING HOUSE, RETIRED OR VOLUNTARILY INACTIVE(a): REASON FOR NOT LOOKING FOR WORK(b) AND WHETHER INTENDING TO LOOK FOR WORK IN THE TWELVE MONTHS, NOVEMBER 1975 (*000)

| | Intention to twelve mon | | vork in the n | iext | Total | | | |
|---|----------------------------|---------------|-------------------|-----------------|-------|---------|---------|--|
| Reason for not looking for work(b) | Intended to look | Might look | Would not look | Did not know | Males | Females | Persons | |
| Own ill-health, physical disability or | | | | | | | | |
| pregnancy | 37.3 | 24.4 | 376.7 | 15.3 | 90.0 | 363.6 | 453.6 | |
| Did not want to or need to work, believed | | | 4 004 5 | 40.0 | | | | |
| should stay at home | 72.8 | 60.3 | 1,091.5 | 43.2 | 50.5 | 1,217.3 | 1,267.9 | |
| Family considerations(c) | 58.9 | 27.4 | 95.2 | 9.3 | • | 189.9 | 190.9 | |
| Ill-health other than own | 5.6 | * | 4.2 | • | • | 13.1 | 14.1 | |
| Lack of child care arrangements/ | | | | | | | | |
| children too young | 51.7 | 22.9 | 87.4 | 7.8 | • | 169.7 | 169.7 | |
| $\mathbf{Discouraged}(d)$ | 18.6 | 6.7 | 7.0 | • | • | 31.8 | 33.8 | |
| Considered too young or too old by) | | | | | | ſ | | |
| employers | | | | | | 7.7 | 7.7 | |
| Language or racial difficulties; lacked | 4.6 | * | * | • | • | ≺ | | |
| necessary schooling, training skills | | | | | | | | |
| or experience | | | | | | (4.1 | 4.4 | |
| No jobs in locality or line of work . | 14.0 | * | * | * | • | 20.0 | 21.7 | |
| Other reasons(e) | 10.4 | * | 4.4 | • | • | 15.8 | 18.3 | |
| Total Males | 24.5 | 6.8 | 108.8 | 6.1 | 146.2 | •• | | |
| Total Females | 173.5 | 114.5 | 1,466.0 | 64.4 | | 1,818.3 | ٠. | |
| Total Persons | 198.0 | 121.3 | 1,574.8 | 70.4 | | •• | 1,964.5 | |

⁽a) Excludes the 38,600 persons described in footnote to previous table. (b) Highest-ranked reason only. See text above. (c) Includes 7,100 females whose husbands disapproved of their taking a job. (d) For definition, see text above. (e) Includes persons who stated they were not looking for work because there were no jobs available in suitable

hours.

* Estimates less than 4,000 are not published as they are subject to sampling variability too high for most practical purposes. Although figures for these small components can be derived by subtraction, they should not be regarded as reliable.

PERSONS AGED 15 TO 64 YEARS NOT IN THE LABOUR FORCE WHO WERE KEEPING HOUSE, RETIRED OR VOLUNTARILY INACTIVE(a): TIME SINCE LAST REGULAR JOB (IF ANY)(b) AND REASON FOR LEAVING IT, NOVEMBER 1975 ('000)

Time since last regular job(b) 5 years 10 years 1 year 3 years Under 20 years and over and under and under and under and under 10 years Reason for leaving last regular job(b) 1 year 3 years 5 years 20 years Total **MALES** Own ill-health or injury 19.6 8.7 21.3 15.8 13.7 5.1 77.5 12.7 Dismissed, laid off, slack work

Did not need to work any longer (including retired) 11.7 6.0 15.3 Other reasons(c) Total 45.3 17.9 41.1 23.9 6.5 (d)146.2**FEMALES** 93.6 6.4 56.1 31.2 15.1 116.5 22.3 72.2 22.0 159.1 198.3 188.2 103.7 1,073.7 Family considerations 317.9 21.1 103.9 34.2 Marriage 63.6 104.9 29.8 266.5 35.3 483.6 Pregnancy Other 66.1 18.3 438.4 151.7 16.2 Unsatisfactory work arrangements 11.1 18.0 34.9 10.9 8.1 17.8 Own ill health or injury
Dismissed, laid off, slack work 26 40.1 19.9 19.4 18.2 11.3 153.8 Did not need to work any longer (in-cluding retired) 27.1 30.4 44.8 29.9 14.1 172.1 Other reasons 33.0 Total 214.9 304.7 203.9 288.3 265.7 355.8 (d)1,818.3 PERSONS 94.4 16.9 43.8 53.7 Family considerations
Unsatisfactory work arrangements.
Own ill-health or injury 160.1 18.7 117.1 198.6 188.5 318.6 1,077.3 11.4 39.1 20.0 8.1 22.9 69.6 7.8 11.3 56.1 42.4 Dismissed, laid off, slack work Did not need to work any 20.9 18.2 longer (including retired) 37.5 14.0 60.1 8.5 33.1 33.0 31.0 209.1 37.3 Other reasons 345 8 Total 260.3 227.8 306.2 272.3 359.1 (d)1,964.5

EMPLOYED WAGE AND SALARY EARNERS

The figures in this section generally relate only to civilian wage and salary earners, not the total labour force; they therefore exclude employers, self-employed persons, unpaid helpers and the unemployed. Also excluded, because of the inadequacy of current data, are wage and salary earners in agriculture and private households. For the sake of brevity, wage and salary earners are referred to in the tables as 'employees'. Defence forces are included in the table on page 719.

The estimates are based on comprehensive data (referred to herein as 'benchmarks') derived from the 1971 population census and other relevant sources such as special returns from government bodies and the Bureau's economic censuses and surveys.

The data needed to derive the estimates for periods subsequent to the benchmark data (June 1971) are obtained from three main sources: (a) payroll tax returns; (b) returns from government bodies; and (c) some other current returns of employment (e.g. for hospitals); the balance, i.e. unrecorded private employment is estimated. At June 1971 recorded employment obtained from the foregoing sources represented about 90 per cent of employees in the industries covered, as determined by the benchmarks. Monthly estimates are published in Employment and Unemployment (6.4).

Although the series measure reasonably well the short-term trends in employment in the defined field, they may be less reliable for longer-term measurement. There are conceptual differences between benchmark and current data, and changes in such factors as labour turnover, multiple jobholding and part-time working all affect the trend over longer periods.

⁽a) Excludes the 38,600 persons in footnote to table on page 716. (b) For definition see text on cludes 6,700 males who left because of family considerations or unsatisfactory work arrangments. males and 185,000 females who had never had a regular job.

* See footnote * to previous table. (b) For definition see text on page 715.

Concepts and definitions

The concepts and definitions applicable to these estimates are those adopted at the 1971 population census and conform closely to the recommendations of the Eighth International Conference of Labour Statisticians. At the census the following questions were asked in respect of all persons fifteen years of age and over:

'Did this person have a full or part-time job, or business or farm of any kind last week (even if this person was temporarily absent from a job because of sickness, holidays, industrial dispute, etc.)?'

'Did this person do any work at all last week for payment or profit (even if this person was working only part-time or helping without pay in a family business)?'

Provided they had not been temporarily laid off by their employers without pay for the whole of the week, persons who answered 'yes' to either of these questions were classified as employed. Persons in this category were classified as wage or salary earners if on their census schedule they were stated to be 'a wage or salary earner' in the job they held in the previous week.

Adoption of new benchmarks

As results from each successive population census become available it is customary to derive from them new benchmarks for the monthly employment series, and to revise the published estimates for all periods subsequent to the date of the previous census. Benchmarks for June 1971 were established by analysing data from the 1971 population census and other relevant sources such as special returns from government bodies and the Bureau's economic censuses and surveys.

For a number of reasons the estimates of employed wage and salary earners previously published for June 1971 differed from the corresponding figures obtained from the 1971 population census. The principal reasons for the differences are as follows:

- (a) there is an unavoidable accumulation of errors in the intercensal employment estimates,
 e.g. in the estimates of movements in unrecorded employment;
- (b) apart from the undercount to which population censuses are generally subject, evidence from census post-enumeration surveys indicates that the completion of census questionnaires by householders tends to identify a smaller number of persons as being in the labour force than do other methods of measurement (e.g. household surveys conducted by personal interview), and that components of the total labour force, such as employed wage and salary earners, tend to be affected in the same way;
- (c) estimated monthly movements in civilian employment are derived mainly from returns from employers relating to establishments or enterprises, but the population census figures are derived from particulars recorded by individuals on census schedules. The latter do not in all cases provide precise information to allow accurate coding of industry;
- (d) previously published estimates for June 1971 included about 7,000 male and 17,000 female trainee teachers who are not included in the new benchmarks or subsequent monthly estimates;
- (e) crews of overseas ships are excluded from the monthly employment estimates;
- (f) some persons are not enumerated in the census in the State or Territory in which they work, e.g. persons resident in New South Wales and working in the Australian Capital Territory and persons who at the time of the population census are on holidays interstate.

Population census data were not always accepted as a matter of course in determining the June 1971 benchmarks. The factors mentioned above were taken into account and particulars of employment obtained from other sources (see above) were used in analysing and, where necessary, in revising the estimates. It should be noted that figures in this section are subject to further revision as the results of later censuses and surveys become available.

Current data

Current data supplied by reporting enterprises or establishments generally refer to persons on the payroll for the last pay-period in each month. Persons who are on paid leave or who work during part of the pay-period and are unemployed or on strike during the rest of the period are generally counted as employed. Those not shown on employers' payrolls because they are on leave without pay, on strike or stood down for the entire period are excluded.

In all States and Territories except Queensland, payroll tax returns are currently lodged by all employers paying more than \$923 a week in wages. For Queensland the figure is \$1,200. Certain Commonwealth Government bodies, religious and benevolent institutions, public hospitals and other similar organisations are specifically exempted under the Commonwealth and State Payroll Tax Acts. The exemption level in the States was revised from \$400 to \$800 a week from January 1976, while the level in the Territories remained at \$400 a week until January 1977, when the current levels were adopted.

Industry

The industry classification used in this section is the Australian Standard Industrial Classification (ASIC), described in the Bureau publication Australian Standard Industrial Classification (Preliminary Edition), 1969, Volume 1. This industry classification is not directly comparable with those adopted for population censuses before 1971 and used in previously published estimates of civilian employees.

It is expected that in due course a revised series will be published for the period June 1966 to May 1971, classified according to ASIC. However, it may not be possible to provide as much industry detail as for June 1971 and subsequent periods. ASIC estimates cannot be derived for periods prior to June 1966.

CIVILIAN EMPLOYEES AND DEFENCE FORCES: AUSTRALIA EXCLUDING EMPLOYEES IN AGRICULTURE AND PRIVATE DOMESTIC SERVICE ('000)

| | | | | C' II | | | | _ | | | |
|------------|----------------------|------------|----------------------------------|-------------|---|---|---|---|---|----|------|
| | | | npioyees | Civilian en | | | | | | | |
| Tota | Defence Forces(b) | Total | Govern- Private ment(a) Total | | | | | | | | June |
| | | | ES | MAL | | | | | | | |
| 3,005.2 | 80.5 | 2,924.7 | 811.8 | 2,112.9 | | | | • | | | 1971 |
| 3,018.9 | 78.3 | 2,940.6 | 838.1 | 2,102.5 | | | | | | | 1972 |
| (c)3,056.2 | 71.0 | (c)2,985.2 | 857.9 | (c)2,127.3 | | | | | • | | 1973 |
| 3,132.9 | 64.7 | 3,068.2 | 867.8 | 2,200.4 | | | | | | | 1974 |
| (c)3,109.3 | 65.8 | (c)3,043.5 | 924.1 | (c)2,119.3 | | • | | | • | | 1975 |
| | | | LES | FEMA | | | | | | | |
| 1,500.2 | 2.7 | 1,497.5 | 277.3 | 1,220.2 | • | | | | | | 1971 |
| 1,530.1 | 2.8 | 1,527.3 | 288.9 | 1,238.4 | | | | | | ٠. | 1972 |
| 1,620.8 | 3.1 | 1,617.7 | 306.0 | 1,311.7 | | | | | | | 1973 |
| 1,741.2 | 2.9 | 1,738.3 | 336.0 | 1,402.3 | | | | | | | 1974 |
| 1,712.6 | 3.4 | 1,709.2 | 371.4 | 1,337.8 | | | • | | ٠ | • | 1975 |
| | | | ONS | PERSO | | | | | - | | |
| 4,505. | 83.2 | 4,422.3 | 1,089.1 | 3,333.2 | | | | | • | | 1971 |
| 4,549.0 | 81.1 | 4,467.9 | 1,127.0 | 3,340.9 | | | | | | | 1972 |
| (c)4,677.0 | 74.1 | (c)4,602.9 | 1,163.9 | (c)3,439.0 | | | | | | | 1973 |
| 4,874. | 67.6 | 4,806.5 | 1,203.8 | 3,602.7 | | | | | | | 1974 |
| (c)4,821.9 | 69.2 | (c)4,752.7 | 1,295.5 | (c)3,457.1 | | | | | | | 1975 |

⁽a) Includes semi-government bodies. See explanation on page 721. (b) Permanent defence forces in Australia and overseas. (c) Affected by industrial disputes.

CIVILIAN EMPLOYEES: PRINCIPAL INDUSTRIES, AUSTRALIA
EXCLUDING DEFENCE FORCES AND EMPLOYEES IN AGRICULTURE AND PRIVATE DOMESTIC SERVICE
('000)

| | | · · · · · · · · · · · · · · · · · · · | | | |
|---|---------|---------------------------------------|--------------|---------|------------|
| | June— | | | | |
| ASIC Division(a) | 1971 | 1972 | 1973 | 1974 | 1975 |
| | MAL | ES | | | |
| Forestry, fishing and hunting(b) . | 13.5 | 14.1 | 14.2 | 13.9 | 15.0 |
| Mining | 69.8 | 69.7 | 69.7 | 71.3 | 74.9 |
| Manufacturing | 954.5 | 939.9 | (e)940.1 | 960.5 | 895.8 |
| Electricity, gas and water | 89.9 | 90.4 | 90.3 | 90.5 | 91.9 |
| Construction | 379.6 | 383.2 | 381.5 | 385.7 | (e)393.3 |
| Wholesale and retail trade | 512.3 | 518.9 | 536.6 | 552.8 | 549.1 |
| Transport and storage | 214.3 | 211.2 | 211.2 | 218.4 | 218.8 |
| Communication | 65.9 | 67.1 | 69.2 | 71.7 | 72.8 |
| Finance, insurance, real estate and | | | | | |
| business services | 186.6 | 188.1 | 193.2 | 202.8 | 198.3 |
| Public administration and defence(c) | 126.3 | 132.2 | 138.0 | 143.0 | 154.0 |
| Community services | 218.7 | 229.7 | 241.0 | 252.5 | 268.9 |
| Entertainment, recreation, restaurants, | | | | | |
| hotels and personal services (d) . | 93.5 | 96.1 | 100.2 | 105.1 | 110.9 |
| Total | 2,924.7 | 2,940.6 | (e)2,985.2 | 3,068.2 | (e)3,043.5 |

For footnotes see end of table.

CIVILIAN EMPLOYEES: PRINCIPAL INDUSTRIES, AUSTRALIA—continued Excluding Defence Forces and Employees in Agriculture and Private Domestic Service ('000)

| | June— | | | | |
|---|---------|---------|------------|---------|----------|
| ASIC Division(a) | 1971 | 1972 | 1973 | 1974 | 1975 |
| | FEMA | LES | | | |
| Forestry, fishing and hunting(b) . | 0.6 | 0.8 | 0.8 | 1.0 | 0.9 |
| Mining | 5.7 | 5.5 | 5.5 | 5.5 | 5.9 |
| Manufacturing | 344.4 | 334.7 | 347.3 | 370.9 | 309.0 |
| Electricity, gas and water | 8.8 | 8.8 | 8.8 | 9.1 | 9.3 |
| Construction | 16.3 | 16.8 | 17.9 | 19.1 | 18.3 |
| Wholesale and retail trade | 347.7 | 360.5 | 388.7 | 416.3 | 406. |
| Transport and storage | 32.8 | 32.5 | 33.9 | 36.9 | 36. |
| Communication | 26.2 | 26.6 | 27.3 | 29.5 | 29. |
| Finance, insurance, real estate and | | | | | |
| business services | 161.5 | 162.1 | 171.9 | 185.0 | 181.3 |
| Public administration and defence(c). | 58.6 | 62.5 | 67.9 | 76.0 | 89.: |
| Community services | 352.7 | 374.6 | 397.4 | 428.4 | 458. |
| Entertainment, recreation, restaurants, | | | | | |
| hotels and personal services (d) . | 142.4 | 142.0 | 150.3 | 160.5 | 163.0 |
| Total | 1,497.5 | 1,527.3 | 1,617.7 | 1,738.3 | 1,709 |
| | PERSO | ONS | | | |
| Forestry, fishing and hunting(b) . | 14.1 | 14.8 | 15.0 | 14.9 | 15.9 |
| Mining | 75.4 | 75.2 | 75.1 | 76.8 | 80.8 |
| Manufacturing | 1,298.9 | 1,274.6 | (e)1,287.4 | 1,331.4 | 1,204 |
| Electricity, gas and water | 98.7 | 99.2 | 99.2 | 99.5 | 101. |
| Construction | 395.9 | 400.0 | 399.4 | 404.7 | (e)411.: |
| Wholesale and retail trade | 860.0 | 879.4 | 925.4 | 969.2 | 955. |
| Transport and storage | 247.1 | 243.8 | 245.1 | 255.3 | 255.: |
| Communication | 92.0 | 93.7 | 96.6 | 101.2 | 102.: |
| Finance, insurance, real estate and | | | | | |
| business services | 348.0 | 350.2 | 365.1 | 387.9 | 379. |
| Public administration and defence(c). | 184.9 | 194.7 | 205.9 | 219.0 | 243.: |
| Community services | 571.4 | 604.3 | 638.3 | 681.0 | 727.4 |
| Entertainment, recreation, restaurants, | | | | | |
| hotels and personal services (d) . | 235.9 | 238.1 | 250.4 | 265.7 | 274. |
| Total | 4,422.3 | 4,467.9 | (e)4,602.9 | 4,806.5 | 4,752. |

⁽a) Australian Standard Industrial Classification. (b) Excludes ASIC Sub-divisions O1 (Agriculture) and O2 (Services to agriculture). (c) Excludes members of the permanent defence forces. (d) Excludes ASIC Sub-division 94 (Private households employing staff). (e) Affected by industrial disputes.

CIVILIAN EMPLOYEES

EXCLUDING DEFENCE FORCES AND EMPLOYEES IN AGRICULTURE AND PRIVATE DOMESTIC SERVICE

('000)

| June— | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. (a) | Aust. |
|--------|-------------|----------|-------|-------|-------|------|------|---------------|------------|
| | | | | MALE | S | | | | |
| 1971 . | . 1,096.3 | 805.7 | 377.3 | 263.6 | 234.2 | 86.7 | 23.5 | 37.5 | 2,924.7 |
| 1972 . | 1,094.4 | 811.3 | 388.5 | 263.4 | 230.2 | 87.2 | 24.7 | 40.8 | 2,940.6 |
| 1973 . | .(b)1,104.5 | (b)819.9 | 398.9 | 270.5 | 233.8 | 87.9 | 25.1 | 44.8 | (b)2,985.2 |
| 1974 . | . 1,123.7 | 842.9 | 415.2 | 278.4 | 243.0 | 89.6 | 26.8 | 48.5 | 3,068.2 |
| 1975 . | . 1,102.3 | (b)832.9 | 414.4 | 278.3 | 247.9 | 90.7 | 24.5 | 52.4 | (b)3,043.5 |

For footnotes see end of table.

CIVILIAN EMPLOYEES—continued EXCLUDING DEFENCE FORCES AND EMPLOYEES IN AGRICULTURE AND PRIVATE DOMESTIC SERVICE ('000)

| June— | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. (a) | Aust |
|--------|-----|---------------|-----------|-------|-------|-------|-------|------|---------------|------------|
| | | | | | FEMAL | ES | | | | |
| 1971 . | - | 569.7 | 439.0 | 173.8 | 133.5 | 110.9 | 38.9 | 9.3 | 22.6 | 1,497.5 |
| 1972 . | | 574.2 | 445.6 | 181.3 | 136.8 | 115.4 | 39.6 | 10.7 | 23.8 | 1,527.3 |
| 1973 . | | 604.0 | 470.5 | 194.2 | 145.9 | 123.1 | 41.3 | 11.5 | 27.3 | 1,617.7 |
| 1974 . | | 643.9 | 502.2 | 210.0 | 161.0 | 132.3 | 44.1 | 13.3 | 31.5 | 1,738.3 |
| 1975 . | ٠ | 625.2 | 487.3 | 210.3 | 159.5 | 133.1 | 46.6 | 11.7 | 35.4 | 1,709.2 |
| | | | | | PERSO | NS | | | | |
| 1971 . | | 1,666.0 | 1.244.7 | 551.1 | 397.0 | 345.2 | 125.5 | 32.7 | 60.0 | 4,422.3 |
| 1972 . | | 1,668.6 | 1,256.9 | 569.8 | 400.2 | 345.5 | 126.8 | 35.4 | 64.6 | 4,467.9 |
| 1973 . | . (| (5)1,708.5(b) |)1,290.3 | 593.1 | 416.3 | 356.8 | 129.2 | 36.6 | 72.0 | (b)4,602.9 |
| 1974 . | | 1,767.7 | 1,345.2 | 625.3 | 439.4 | 375.3 | 133.7 | 40.1 | 80.0 | 4,806.5 |
| 1975 . | | 1,727.5(8 | 6)1,320.3 | 624.6 | 437.8 | 381.0 | 137.3 | 36.2 | 87.9 | (b)4,752.7 |

⁽a) Includes persons employed in the Australian Capital Territory who reside in adjoining areas. (b) Affected by industrial disputes,

Government employees

The numbers of civilian employees of government bodies (Commonwealth, State, local and semi-government) in each State and Territory at June 1975 are shown in the following table. Government employees comprise not only administrative employees but also all other employees of government bodies on services such as railways, road transport, banks, postal and telecommunications, air transport, education (including universities), radio, television, police, public works, factories and departmental hospitals and institutions.

CIVILIAN EMPLOYEES OF GOVERNMENT BODIES: JUNE 1975(a)

EXCLUDING DEFENCE FORCES AND EMPLOYEES IN AGRICULTURE AND PRIVATE DOMESTIC SERVICE

('000)

| | Commonwealth Government | | | | State Govern | | | | ment(b) | | Total(b) | | |
|--|----------------------------|-------|--------------|--------------|---|--------------|--------------|-------|--------------|--------------|----------|--------------|---------|
| State or Territory | | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons | Males | Fe- males | Per- |
| New South Wales. | | 89.0 | 35.5 | 124.5 | 172.3 | 80.2 | 252.5 | 57.1 | 7.4 | 64.5 | 318.5 | 123.1 | 441.6 |
| Victoria , , | | 72.2 | 26.6 | 99.8 | 135.6 | 54.0 | 189.6 | 22.3 | 7.5 | 29.8 | 230.1 | 88.2 | 318.3 |
| Oueensland | | 29.8 | 12.0 | 41.8 | 82.3 | 30.6 | 112.9 | 22.5 | 2.1 | 24.5 | 134.7 | 44.6 | 179.2 |
| South Australia . | | 24.9 | 7.5 | 32.4 | 58.4 | 34.5 | 92.9 | 6.8 | 1.1 | 7.9 | 90.1 | 43.2 | 133.3 |
| Western Australia. | | 16.7 | 6.7 | 23.4 | 55.0 | 24.6 | 79.6 | 8.8 | 1.4 | 10.2 | 80.5 | 32.7 | 113.1 |
| Tasmania | | 6.0 | 2.1 | 8.1 | 19.7 | 9.5 | 29.2 | 3.4 | 0.5 | 3.8 | 29.1 | 12.0 | 41.1 |
| Northern Territory Australian Capital | ٠ | 9.5 | 5.8 | 15.3 | • | • | | 0.2 | ••• | 0.2 | 9.7 | 5.9 | 15.6 |
| Territory(c) . | | 31.5 | 21.8 | 53.4 | | | | | | | 31.5 | 21.8 | 53.3 |
| Australia . | | 279.6 | 118.1 | 397.7 | 523.4 | 233.4 | 756.8 | 121.1 | 19.9 | 141.0 | 924.1 | 371.4 | 1,295.5 |

⁽a) Includes semi-government bodies. See explanation above. (b) Excludes State and local government employees (3,500 in June 1975) engaged in agriculture. (c) Includes persons employed in the Australian Capital Territory who reside in adjoining areas.

CIVILIAN EMPLOYEES OF GOVERNMENT BODIES(a): AUSTRALIA EXCLUDING DEFENCE FORCES AND EMPLOYEES IN AGRICULTURE AND PRIVATE DOMESTIC SERVICE ('000)

| | | | | | Commo Govern | onwealth ment | , | State Govern | | | | Local Government | | | Total | | |
|--------------|---|---|---|----|-----------------|------------------|----------------|-----------------|----------------|----------------|----------------|---------------------|----------------|----------------|----------------|--------------------|--|
| June- | | | | | Males | Fe- males | Per- | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons | Males | Fe- males | Per- sons | |
| 1971 | | • | | ٠. | 249.4 | 88.8 | 338.2 | 470.2 | 173.3 | 643.5 | 92.2 | 15.3 | 107.4 | 811.8 | | 1,089.1 | |
| 1972 1973 | : | : | : | : | 253.2 261.8 | 92.0 97.6 | 345.2 359.4 | 482.5 490.4 | 181.0 191.4 | 663.5 681.8 | 102.4 105.7 | 15.9 17.1 | 118.3 122.7 | 838.1 857.9 | | 1,127.0 | |
| 1974 1975 | : | : | : | | 269.8 279.6 | 107.9 118.1 | 377.7 397.7 | 499.2 523.4 | 210.2 | 709.4 756.8 | 98.8 121.1 | 17.9 19.9 | 116.7 141.0 | 867.8 924.1 | 336.0 371.4 | 1,203.8 1,297.5 | |

⁽a) Includes semi-government bodies. See explanation above.

COMMONWEALTH EMPLOYMENT SERVICE

Statutory warrant for the Commonwealth Employment Service (C.E.S.) is to be found in the Re-establishment and Employment Act 1945 (Sections 47 and 48). In brief, the main functions of the C.E.S. are to assist people seeking employment to obtain positions best suited to their training, experience and qualifications; and to assist employers seeking labour to obtain employees best suited to their needs. The organisation and functions of the C.E.S. conform to the provisions of the Employment Service Convention, 1948, of the International Labour Organisation (I.L.O.) which was ratified by Australia in December 1949. In addition, C.E.S. practices accord substantially with the provisions of the I.L.O. Employment Service Recommendation, 1948.

The C.E.S. functions on a decentralised basis within the Manpower Development and Operations Divisions of the Department of Employment and Industrial Relations. The Central Administration is in Melbourne and there is a Regional Office in the capital city of each State. There are 186 offices of the C.E.S. in suburban and the larger provincial centres and C.E.S. agents in the smaller country centres. The employment offices are distributed as follows: New South Wales 65; Victoria 44; Queensland 31; South Australia 21; Western Australia 18; Tasmania 7. These figures include 8 Professional Employment Offices located in the 6 capital cities and Canberra and Darwin. The New South Wales figure includes 3 offices in Canberra while the South Australian figure includes 3 offices in the Northern Territory.

Fares assistance is available to eligible persons to travel to and return from interviews arranged through C.E.S.

Training assistance under the National Employment and Training System (N.E.A.T.) is available to eligible persons through C.E.S. Full or part-time training may be undertaken within educational or training institutions, or by correspondence, to assist individuals to obtain suitable employment. Persons approved for training are eligible for living and other allowances. Assistance under the National Apprenticeship Assistance Scheme (N.A.A.S.), which encourages the employment of apprentices and also offers living-away-from-home allowances, is also available through C.E.S.

C.E.S. administers the Income Maintenance aspects of the Structural Adjustment Assistance Scheme and where redundancy occurs in Commonwealth Government employment, provides relocation assistance to eligible persons who wish to relocate to areas with greater employment opportunity.

Specialised facilities are provided for young people, Aboriginals, handicapped persons, exmembers of the defence forces, migrants, ex-prisoners and youth trainees, rural workers and persons with professional and technical qualifications. The C.E.S. provides vocational guidance and counselling free of charge in all States and has a staff of qualified psychologists for this function. Vocational counselling is available to any person in the labour force or about to enter the labour force as well as ex-servicemen and handicapped persons. In New South Wales the C.E.S. provides vocational counselling for adults, including ex-servicemen and the handicapped, while the State Department of Labour and Industry provides a vocational guidance service within the school system and for young persons leaving school.

Specially trained staff visit institutions, hospitals and rehabilitation units to interview and counsel people with complex employment problems. C.E.S. provides a supportive information service to intending school-leavers by liaising with schools through its school's employment program. Since 1971 C.E.S. has opened Career Reference Centres which provide occupational information in written and audio visual form for school-leavers, students, parents, teachers and other professionals in Sydney, Melbourne, Adelaide, Perth, Hobart, Newcastle and Wollongong.

All applicants for unemployment benefit under the Social Services Act 1947 must register at an office or agency of the C.E.S., which is responsible for certifying whether or not suitable employment can be offered to them. The C.E.S. is responsible for assisting migrant workers, sponsored by the Commonwealth Government under the Commonwealth Nomination and similar schemes, to obtain suitable employment. This includes recommending the hostels to which migrants should be allocated on arrival and, where necessary, to arrange their movement to initial employment. Assistance is also offered to other migrants. Since 1951 it has been responsible for recruiting Australian experts for overseas service under the Colombo Plan and the United Nations Expanded Programme of Technical Assistance (now replaced by the U.N. Development Programme). The principal spheres in which experts have been supplied are agriculture, education, engineering, geology, health, and economic and scientific research and development.

In association with placement activities, regular surveys of the labour market are carried out and detailed information is supplied to interested Commonwealth and State Government departments and instrumentalities and to the public. Employers, employees and other interested persons are advised on labour availability and employment opportunities in various occupations and areas and on other matters concerning employment.

The Service completed its twenty-ninth year of operation in May 1975. During 1974 there were 1,543,804 applicants who registered for employment, of whom 1,002,119 were referred to employers and 506,317 placed in employment. New vacancies notified numbered 813,246.

Persons registered for employment

The following table shows the number of persons registered with the C.E.S. at the Friday nearest the end of the month, who claimed when registering that they were not employed, and who were seeking full-time employment, i.e. 35 hours or more per week. They include persons referred to employers but whose employment was still unconfirmed, and persons who had recently obtained employment without notifying the C.E.S. All recipients of unemployment benefit are included. A change of definition has resulted in a different treatment of school leavers. Before July 1973, school leavers comprised all persons under the age of 21 who, at the time of registering with the C.E.S., (i) had ceased full-time primary or secondary education within the previous three months; or (ii) were still at school but notified the C.E.S. that they would leave school before the end of the school year if a full-time job were available. As from July 1973 (August for New South Wales) school leavers comprise all persons under the age of 21 who, at the time of registering with C.E.S. had ceased full-time primary or secondary education within the previous six months.

PERSONS REGISTERED FOR EMPLOYMENT WITH THE COMMONWEALTH EMPLOYMENT SERVICE

| (Source: Department of Emplo | vment and Industrial | Relations) |
|------------------------------|----------------------|------------|
|------------------------------|----------------------|------------|

| June(a |) | | | 1 | V.S.W.(b) | Vic. | Qld | S.A.(c) | W.A. | Tas. | Aust. |
|----------------|------|---|---|---|------------------|------------------|-----------------|-----------------|-----------------|----------------|-------------------|
| 1971 | | | | | 21,609 | 17,878 | 9,412 | 7,975 | 6,683 | 2,682 | 66,239 |
| 1972 | | | | | 34,176 | 25,430 | 11,693 | 12,328 | 12,076 | 3,498 | 99,201 |
| 1973 | | | | | 27,003 | 22,219 | 10,636 | 9,339 | 8,461 | 3,718 | 81,376 |
| 1974(d 1975 | l) . | : | : | | 28,957 94,595 | 21,258 70,360 | 9,537 37,491 | 7,983 20,336 | 7,782 17,003 | 3,310 6,190 | 78,827 245,975 |

⁽a) Generally at Friday nearest end of month. (b) Includes Australian Capital Territory. (c) Includes Northern Territory. (d) The discontinuity between June 1973 and 1974 is caused by a change in definition of school leavers. This change in definition is explained above.

Job vacancies

The following table shows the number of vacancies registered with the Commonwealth Employment Service. The figures refer to vacancies which employers claimed were available immediately or would be available by the end of the following calendar month.

VACANCIES REGISTERED WITH THE COMMONWEALTH EMPLOYMENT SERVICE

(Source: Department of Employment and Industrial Relations)

| June(a | i) | | 1 | V.S.W.(b) | Vic. | Qld | S.A.(c) | W.A. | Tas. | Aust. |
|--------|----|---|---|-----------|--------|-------|---------|-------|-------|--------|
| 1971 | | • | | 13,623 | 9,228 | 3,305 | 2,596 | 2,340 | 679 | 31,771 |
| 1972 | | | | 8,695 | 8,411 | 3,024 | 2,093 | 1,564 | 699 | 24.486 |
| 1973 | | | | 21,532 | 16,522 | 6,986 | 5,152 | 3,302 | 1.014 | 54,508 |
| 1974 | | | | 23,160 | 23,561 | 6,180 | 4,899 | 3,302 | 1,078 | 62,180 |
| 1975 | | | | 8,984 | 7,868 | 2,484 | 3,012 | 2,346 | 823 | 25,517 |

⁽a) Generally at Friday nearest end of month. (b) Includes Australian Capital Territory. (c) Includes Northern Territory.

Note. Sample surveys were conducted by the Australian Bureau of Statistics in March 1974 and March 1975 to obtain information on the level and composition of job vacancies (see below). For a number of reasons the estimates obtained from these surveys differed substantially from the numbers of vacancies registered with the Commonwealth Employment Service at those dates. For example, the survey estimates of total vacancies at March 1975 was 55,200. Results of the surveys and reasons why the survey estimates differ from C.E.S. statistics were published in Job Vacancies, March 1974 and March 1975 (6.49).

Job Vacancies

Surveys of job vacancies were conducted in March 1974 and March 1975 and a summary of the results of these surveys is shown in the table below. More detailed information and explanatory notes are contained in *Job Vacancies*, March 1974 and March 1975 (6.49).

JOB VACANCIES

| | March | 1974 | March | 1975 |
|---|-------|----------|-------|----------|
| Major occupation group(a) | '000 | Per cent | '000 | Per cent |
| 0. Professional, technical and related workers | | | | |
| 1. Administrative, executive and managerial workers | 15.5 | 9.4 | 9.9 | 18.0 |
| 2. Clerical workers | 22.0 | 13.3 | 10.2 | 18.5 |
| 3. Sales workers | 8.6 | 5.2 | 3.9 | 7.1 |
| 5. Miners, guarrymen and related workers | 1.4 | 0.8 | 0.5 | 1.0 |
| 6. Workers in transport and communication . | 9.6 | 5.8 | 2.2 | 4.0 |
| 4, 7, 8. Tradesmen, production-process workers and | | | | |
| labourers, n.e.c.(b) | 97.3 | 58.9 | 23.7 | 42.9 |
| 9. Service, sport and recreation workers | 10.8 | 6.5 | 4.7 | 8.5 |
| Total | 165.2 | 100.0 | 55.2 | 100.0 |

⁽a) Major occupation groups of the Australian Classification of Occupations. (b) Includes farmers, fishermen, hunters, timber-getters and related workers as reported by respondents whose principal industry was other than Agriculture etc. This industry was not included in the scope of the surveys.

Labour Turnover

Surveys of labour turnover were conducted in March 1974 and March 1975. Labour turnover was measured in terms of engagements and separations, information for the month of March being collected from individual private and government employees. A summary of the results of these surveys is given in the following table. More detailed results are published in *Labour Turnover*, *March 1974 and March 1975* (6.8).

LABOUR TURNOVER (Per cent)

| | | | | | Engagen | ient rates | | Separati | on rates | |
|-----------------|---------|--------|-------|------------|---------|------------|-------------|----------|--------------|---------|
| | | | | | Males | Females | Persons | Males | Females | Persons |
| | | | | | MAF | RCH 1974 | * | | | |
| Administrative, | clerica | al, ma | anage | rial, | | | | | | |
| etc.(a) . | | | | | 2.4 | 5.3 | 3.6 | 2.0 | 4.2 | 2.9 |
| Other | | | | | 7.4 | 9.7 | 8.0 | 6.7 | 8.0 | 7.1 |
| Total . | | | | | 5.8 | 7.6 | 6.4 | 5.2 | 6.2 | 5.5 |
| Private | | | | | 7.2 | 8.5 | 7.7 | 6.5 | 7.2 | 6.8 |
| Government. | • | • | • | • | 2.6 | 4.9 | 3.3 | 2.3 | 3.0 | 2.5 |
| | | | | - <u>-</u> | MAR | CH 1975 | - | | | |
| Administrative, | clerica | ıl, m | anage | rial. | | | | | - | |
| etc.(a) . | | | | | 1.8 | 3.6 | 2.6 | 1.6 | 3.0 | 2.2 |
| Other | | | | | 5.1 | 6.7 | 5.5 | 4.5 | 5.8 | 4.9 |
| Total . | | | • | | 4.0 | 5.1 | 4.4 | 3.5 | 4.3 | 3.8 |
| Private | | | | • | 4.6 | 5.7 | 5.0 | 4.3 | 5.1 | 4.6 |
| Government . | | | • | • | 2.8 | 3.4 | 3.0 | 1.9 | 2.3 | 2.0 |

CHAPTER 21

MANUFACTURING INDUSTRY

Introduction

An historical summary of the development of manufacturing industry in Australia since 1901 is contained in earlier issues of the Year Book (see No. 51, pages 143-4).

Decentralisation and manufacturing industries

The decentralisation of secondary industries, and the steps taken by the Commonwealth and State Governments towards its development, are referred to in previous issues of the Year Book (see No. 51, page 144).

Bounties on manufacture

Bounties are paid by the Commonwealth Government to encourage local manufacture of certain products. The statutory provisions usually fix a term of operation of the bounty, provide for payment at a rate varying according to changes in the corresponding customs duty, specify the annual maximum amount of bounty payable, and require the bounty to be withheld or reduced if a manufacturer's net profit in production of the commodity exceeds a certain rate, or if rates of wages and conditions of employment in production of the commodity do not conform to prescribed standards. (See Chapter 18, Public Finance for products on which bounties are paid).

Industries Assistance Commission and Temporary Assistance Authority

Both of these authorities are described in Chapter 11, Overseas Transactions.

Standardisation

The Commonwealth Scientific and Industrial Research Organization has functions concerned with the improvement of efficiency in industrial operations. For further particulars see the chapter Science and Technology of this Year Book.

The Standards Association of Australia is the organisation responsible for the preparation, on a national basis, of Australian standards for materials and products and standard codes of practice.

Formed as the Australian Commonwealth Engineering Standards Association in 1922, it was reconstituted as the Standards Association of Australia in 1929, and was incorporated by Royal Charter in 1950. It is an independent body having the full recognition and support of the Commonwealth and State Governments and of industry. Approximately half its funds are provided by Commonwealth Government grant, the remainder coming primarily from membership subscriptions and from sale of publications. Organisations, companies, and individuals are eligible for subscribing membership.

The Association is controlled by a Council comprising representatives from Commonwealth and State Governments and their departments, from associations of manufacturing and commercial interests, and from professional institutions. Standards are prepared by committees composed of expert representatives from the interests associated with the subjects under consideration. This assistance is on a voluntary basis.

Preparation of a standard is undertaken in response to a request from any responsible source, subject to verification that the standard will meet a genuine need. Standards may relate to one or more of several aspects of industrial practice such as terminology, test methods, dimensions, specifications of performance and quality of products, and safety or design codes. In general, standards derive authority from voluntary adoption based on their intrinsic merit, but in many cases where safety of life or property or consumer protection is involved, they may have compulsory application through statutory reference.

The Association is the owner of a registered certification trade mark covering conformity of products to standards. Manufacturers of products covered by Australian standards may obtain a licence to use the Australian Standard Mark, under conditions established by the Association.

The Association has international affiliations and is a member, representing Australia, of the International Organization for Standardization (ISO) and of the International Electrotechnical Commission (IEC). Close links are maintained with overseas standards organisations, and the Association acts as Australian agent for the procurement of ISO and IEC publications and the standards of other countries.

The Association has two specialised libraries, one in Sydney and one in Melbourne, containing the national standards of all countries with standards organisations. These libraries provide necessary material for committee work and a free information service to those concerned with standards.

The headquarters office of the Association is in Sydney, and there is a major branch office in Melbourne. Branch offices are located also in other capital cities and at Newcastle, New South Wales.

The National Association of Testing Authorities organises testing facilities throughout Australia to serve private and governmental needs. Membership is open to authorities whose testing laboratories conform to the standards of staffing and operations defined by the Association. Testing authorities may register their laboratories voluntarily. The Association assesses the competence of the laboratories and ensures that their standards of competence are maintained. Certificates of test issued by registered laboratories may be endorsed in the name of the Association. NATA endorsed test certificates are generally accepted by governmental, industrial and commercial interests.

Laboratories are registered for performance of specific tests in the fields of metrology, mechanical testing, electrical testing, optics and photometry, non-destructive testing, heat and temperature measurement, chemical testing, biological testing, and acoustic and vibration measurement.

The Industrial Design Council of Australia is engaged in activities aimed at encouraging better design in Australian-made goods and fostering a wider appreciation of good design throughout the community. The Council is representative of industry, commerce and government, together with designers and educationists. It is financed by donations from industry and commerce, and by Commonwealth and State Government grants. The Council's Field Advisory Service has a diagnostic and counselling role, assisting smaller manufacturers throughout Australia with product development policy and direction. Field advisers are based in IDCA State offices in Sydney, Melbourne, Brisbane, Adelaide and Perth. The Australian Design Index, published by the Council in five illustrated volumes covering specific product fields, provides details of articles which have received the IDCA Design Label. These products are also displayed in Australian Design Centres and in other exhibits arranged by the Council.

Regular contact is maintained with senior executives of manufacturing companies, departmental officers and designers through the Design Delegate program of lectures and information. Inquiries seeking professional design services are referred to qualified industrial designers. The Council is also concerned with raising the standard of training in industrial design in co-operation with education authorities.

Publications include a monthly bulletin, *Design Report*. The Council's national office is in Melbourne.

Productivity Action.

For information about the Productivity Group Movement and Productivity Promotion Council of Australia see the chapter, Science and Technology.

Manufacturing industry statistics

Manufacturing industry statistics from 1901 to 1967-68

A series of substantially uniform statistics exist from 1901 up until 1967-68 when the framework within which manufacturing statistics were collected was changed. The following table contains a summary of statistics on manufacturing activities in Australia over that period. More detailed manufacturing statistics in respect of this period have been included in Year Book, No. 57, pages 721-9 and earlier issues.

MANUFACTURING INDUSTRY: AUSTRALIA(a), 1901 TO 1967-68

| | | | Calasias | Value of- | | | | |
|-----------|----------------|--------------------|-------------------------------------|-------------------------------|------------|----------------|------------------------------|-------------------------------|
| Year | Fac- tories | Employ- ment(b) | Salaries and wages paid(c) | Materials and fuel used | Output | Production (d) | Land and buildings (e) | Plant and machinery (e) |
| | No. | '000 | \$,000 | \$'000 | \$'000 | \$'000 | \$1000 | \$.000 |
| 1901 . | 11,143 | 198 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1911 . | 14,455 | 312 | 55,056 | 163,526 | 266,044 | 102,518 | 65,402 | 63,032 |
| 1920-21 . | 17,113 | 367 | 125,864 | 427,118 | 647,986 | 220,868 | 121,662 | 137,310 |
| 1930-31 . | 21,751 | 339 | 124,910 | 344,978 | 581,598 | 236,620 | 224,422 | 248,996 |
| 1940-41 . | 27,300 | 650 | 275,838 | 773,762 | 1,289,590 | 515,828 | 288,188 | 322,712 |
| 1950-51 . | 43,147 | 969 | 983,436 | 2,613,926 | 4,301,670 | 1,687,744 | 605,570 | 673,230 |
| 1960-61 . | 57,782 | 1,145 | 2,289,230 | 6,115,930 | 10,465,765 | 4,349,835 | 2,389,140 | 2,785,565 |
| 1963-64 . | 59,375 | 1,210 | 2,651,620 | 7.372.682 | 12,642,686 | 5,270,003 | 3,204,685 | 3,480,673 |
| 1964-65 . | 61,042 | 1,269 | 2,993,709 | 8,140,600 | 14.037.355 | 5,896,754 | 3,505,859 | 3,766,253 |
| 1965-66 . | 61,686 | 1,294 | 3,162,769 | 8,437,958 | 14,689,819 | 6,251,861 | 3,776,590 | 4,154,652 |
| 1966-67 . | 62,500 | 1,309 | 3,407,683 | 9,015,844 | 15,892,845 | 6,877,001 | 4,061,193 | 4,706,843 |
| 1967-68 . | 62,954 | 1,331 | 3,665,902 | 9,663,217 | 17,094,070 | 7,430,853 | 4,303,156 | 4,962,203 |

⁽a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory. (b) 1901 and 1911—average employment during period of operation. Later years relate to average employment over whole year. Working proprietors are included in all years. (c) Excludes amounts drawn by working proprietors. (d) Value added in process of manufacture (i.e. value of output less value of materials and fuel, etc. used). (e) Depreciated or book values at 30 June. Includes estimated values of rented premises and machinery.

Manufacturing industry statistics from 1968-69

As from the year ended June 1969, the Censuses of Manufacturing, Electricity and Gas have been conducted within the framework of the integrated economic censuses which include the Censuses of Mining, Retail Trade and Selected Services, and Wholesale Trade. As a result manufacturing industry statistics for 1968-69 and subsequent years are not directly comparable with previous years. The electricity and gas industries, which were previously included in the Annual Factory Census, were the subject of separate censuses, details of which are given on page 734. The integration of these economic censuses was designed to increase substantially the usefulness and comparability of economic statistics collected and published by the Bureau and to form a basis for the sample surveys which supply current economic statistics from quarter to quarter, particularly those which provide data for the quarterly national income and expenditure estimates.

The economic censuses of Manufacturing, Mining and Retail Trade previously conducted in Australia were originally designed and subsequently developed primarily to provide statistics for particular industries on a basis which would best suit the requirements of users interested in statistics of those industries. More recently there has been a growth of interest in statistics describing activity in the economy as a whole—reflected, for example, in the development of employment and earnings statistics, surveys of capital expenditure and stocks and the whole field of national accounts statistics. For such purposes statistics derived from economic censuses in the past have had serious limitations despite the fact that they covered a broad area of the whole economy. Because of the special-purpose nature of each of the censuses, there were no common definitions of data, there was no common system of reporting units, and, as a standard industrial classification was not used for these censuses, industry boundaries were not defined in ways which would avoid overlapping or gaps occurring between the industrial sectors covered. For these reasons, direct aggregation and comparison of statistics from different censuses were not possible.

The integration of these economic censuses meant that for the first time they were being collected on the basis of a common framework of reporting units and data concepts and in accordance with a standard industrial classification. As a result, the statistics for the industries covered by the censuses are now provided with no overlapping or gaps in scope, and in such a way that aggregates for certain important economic data such as value added, employment, wages and salaries, fixed capital expenditure and stocks can be obtained on a consistent basis for all sectors of the economy covered by the censuses.

For the integration of the various censuses it was necessary to undertake three major developments:

(a) The census units for which the statistics were to be collected (factories, mines, shops, etc.) had to be defined and identified in consistent ways and recorded in a central register, together with identifying data about the businesses owning and operating them.

- (b) A standard industrial classification had to be adopted so that the census units could be classified in consistent ways and to enable the boundaries of the various economic censuses to be determined without gaps or overlapping between them.
- (c) In order to bring the items of data to a consistent basis of definition in all censuses, it was necessary to revise all the forms used in previous censuses.

The standardisation of census units in the integration of economic censuses means that the basic census unit (the establishment), in general, now covers all the operations carried on under the one ownership at a single physical location. The manufacturing establishment is thus one predominantly engaged in manufacturing but the data supplied for it now cover (with a few exceptions) all activities at the location. Previously, the manufacturing establishment covered only a specified manufacturing activity primary to one class of industry. It now covers, in addition, subject to certain exceptions mentioned below:

- (a) Any other manufacturing activity (i.e. production of goods primary to another class of industry).
- (b) Any selling and distribution activities connected with the products manufactured.
- (c) Any non-manufacturing activity (e.g. merchanting of goods not manufactured by the establishment; extraction of raw materials for use by the establishment).

The exceptions in general relate to locations where the subsidiary activities (in terms of gross value) exceed a specified value (currently \$1.4 million), which are treated for statistical purposes as two or more establishments corresponding to the various kinds of activity carried on.

The establishment statistics also include data relating to separately located administrative offices and ancillary units serving the establishment and forming part of the business (enterprise) which owns and operates the establishment. These units were formerly excluded from the manufacturing census. They are units such as head offices, storage premises and manufacturers' sales branches or sales offices (except those of the kind which distribute to customers from stocks held by such branches or offices which are treated as establishments in the Wholesale Census).

The Australian Standard Industrial Classification (ASIC), described in the Bureau publication Australian Standard Industrial Classification (Preliminary Edition), 1969, Vol. 1, defines the industries in the economy for statistical purposes, thus permitting the scope of the different economic censuses to be specified without gaps or overlapping between them. It also sets out standard rules for identifying the statistical units (e.g. establishments) and for coding them to the industries of the classification. This classification is broadly convertible to the International Standard Industrial Classification adopted by the United Nations Statistical Commission. The adoption of the ASIC has resulted in changes in scope between the integrated economic censuses introduced in 1968-69 and the individual economic censuses conducted in previous years. The main changes in scope in the manufacturing census, apart from providing for a separate census for electricity and gas, are as follows.

- (a) Establishments mainly engaged in the following activities, previously included in manufacturing censuses, are excluded as from 1968-69: motor vehicle repairs but not engine reconditioning; repair and servicing of agricultural machinery; dry-cleaning, laundering and clothes dyeing services; watch, clock and jewellery repairing; boot and shoe repairing; tyre retreading and repairing; custom dressmaking and tailoring (including clothing repair and alterations); installing and repairing of blinds and awnings, making up and installing of curtains; and repair of domestic appliances. Establishments mainly engaged in these activities are now included in the periodic Retail Trade or Wholesale Trade Censuses.
- (b) Establishments mainly engaged in non-manufacturing activities but which also carry out, as a subsidiary activity, some manufacturing activities, and which in respect of those manufacturing activities, were previously included in the manufacturing census are excluded as from 1968-69 unless such establishments have manufacturing activities in excess of a specified value (currently \$1.4 million).
- (c) Establishments mainly engaged in the following activities, previously excluded in most States from manufacturing censuses, are included as from 1968-69: slaughtering, milk treatment, and publishing.

An indication of the effect of the changes referred to above can be gained from the following comparison. In the 1967-68 census there were approximately 62,600 manufacturing establishments (excluding electricity and gas establishments), with employment of 1,276,000. Of these, approximately 35,400, with employment of 1,097,000 (but see footnote (b) to the following table) would have been included in the 1967-68 census if ASIC had been used. Figures for the individual States and Territories are given below.

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust, |
|---|--------|--------|-------|-------|-------|-------|------|--------|--------|
| Approximate number of manufacturing establishments— | | | | | | | | | |
| 1967-68 census | 24,900 | 18,000 | 6,100 | 6,200 | 5,300 | 1,800 | 180 | 240 | 62,600 |
| 1967-68 census if ASIC had been used(a) | 13,800 | 11,400 | 3,500 | 3,000 | 2,500 | 960 | 70 | 100 | 35,400 |
| Approximate number of employees (thousands)— | | | | | | | _ | | |
| 1967-68 census | 512 | 433 | 114 | 116 | 63 | 34 | | 5 | 1,276 |
| 1967-68 census if ASIC had been used(b) | 445 | 376 | 95 | 100 | 51 | 27 | | 3 | 1,097 |

(a) Excludes the establishments referred to in (c), in the paragraph above. (b) These figures relate to employment as defined for the 1967-68 and previous year censuses. They thus exclude employment at the establishments referred to in (c) in the paragraph above, sales and distribution employees, employees connected with non-manufacturing activities and employees at separately located administrative offices and ancillary units serving manufacturing establishments. The figures, therefore, are not directly comparable with those for 1968-69 and subsequent years, which include the aforementioned employees.

The third step in integrating the censuses, whereby the items of data on the census forms were standardised for all census sectors, has meant changes in the content of the statistics. For example, the value of 'turnover' is now collected instead of the 'value of output' at the factory, and purchases and selected expenses are collected as well as the value of specified materials, fuels, etc., used. However the underlying concept of 'value added,' is similar to the former concept 'value of production', even though its method of derivation is different. Value added, the basic measure of the establishment's contribution to total production, is now calculated as turnover less purchases and transfers in (from other establishments of the enterprise), plus increase (or less decrease) in stocks. In the past the corresponding item, value of production, was obtained by deducting the value of materials, fuels, etc., used from the value of output at the factory. A detailed comparison of the method of derivation is shown in the following table.

| Value of production 1967–68 | Value added as from 1968-69 |
|---|--|
| Selling value at works, exclusive of all delivery costs or charges, of goods manufactured, treated or worked up during the year, including by-products, plus Value of other work done, such as repairing and making up for customers, etc. | Sales and transfers out (to other establishments of the enterprise), of goods manufactured by the establishment, plus Sales and transfers out of goods not manufactured by the establishment, plus Bounties and subsidies on production, plus All other operating income, plus Capital work done for own use, or for rental or lease |
| Equals: Value of output | Equals: Value of turnover Plus: Closing stocks Less: Opening stocks |
| Less- | Less- |
| Value of materials used | Purchases and transfers in of materials, electricity, |
| Power, fuel and light used | fuels, containers, etc. |
| Water used | Purchases and transfers in of goods for resale |
| Lubricating oils used | Charges for commission and subcontract work |
| Repairs, etc. | Repair and maintenance expenses |
| Containers used | Outward freight and cartage, motor vehicle running expenses, sales commission payments |
| Equals: Value of production | Equals: Value added |

Even though the concept of value added is similar to value of production, direct comparison of 1968-69 and previous figures will not be possible because of the change in census units already mentioned which has resulted in the value added for the whole establishment being reported, not merely the value added for the manufacturing process. Comparison is also affected, of course, by the change in the scope of the manufacturing census due to the adoption of ASIC. In addition, value added as calculated for the Manufacturing Census differs from the concept used in National Accounts where the concept of value added also excludes some administrative expenses and sundry charges and the change in stocks component is measured by valuing the physical change in stocks at current prices. It is not practicable in the Manufacturing Census to collect data fully in accord with the national accounts concept of value added.

A Census of Manufacturing was not conducted in Australia for the year 1970-71.

For a more detailed description of the Integrated Economic Censuses reference should be made to Chapter 31, Year Book No. 56.

Summary of operations

The following table shows the summary of operations for manufacturing establishments.

MANUFACTURING ESTABLISHMENTS—SUMMARY OF OPERATIONS, BY INDUSTRY SUB-DIVISION: AUSTRALIA, 1972-73 AND 1973-74

| | | Number of estab- lish- ments opera- | Persons | employed | (<i>b</i>) | Wages | r. | Stocks at . | 30 June | Pur- chases, trans- fers in and selected | v., | Fixed capital |
|---|---------------------|--|-------------------|------------------|-------------------|------------------------|----------------------|-------------|----------------|---|-----------------------|----------------------------|
| Industry sub-division | ASIC code (a) | ting at end of June | Males No. | Females No. | Total No. | and salaries \$m | Turn- over \$m | Opening \$m | Closing \$m | ex- penses \$m | Value added \$m | expen- diture(c) \$m |
| | | | | | | | | | | | | |
| | | | | | 19 | 972-73 | | | | · | | |
| Food, beverages and tobacco Textiles | 21-2 23 | 4,349 871 | 149,603 29,924 | 53,495 23,908 | 203,098 53,832 | 890 210 | 6,137 946 | 675 183 | 741 203 | 4,260 589 | 1,943 377 | 223 25 |
| Clothing and foot- wear Wood, wood pro- | 24 | 3,147 | 24,572 | 87,049 | 111,621 | 355 | 1,216 | 192 | 206 | 667 | 564 | 19 |
| ducts and furni- ture. | 25 | 5,906 | 71,755 | 11,079 | 82,834 | 315 | 1,269 | 158 | 170 | 697 | 584 | 54 |
| Paper and paper products, printing Chemical, petro- | 26 | 3,655 | 77,450 | 28,545 | 105,995 | 491 | 1,807 | 224 | 224 | 892 | 915 | 90 |
| leum, and coal products. Non-metallic min- | 27 | 1,184 | 47,886 | 17,601 | 65,487 | 352 | 2,017 | 349 | 352 | 1,134 | 886 | 127 |
| eral products . | 28 | 1,854 | 47,498 | 5,527 | 53,025 | 273 | 1,150 | 142 | 142 | 587 | 563 | 73 |
| Basic metal pro- | 29 | 635 | 89,113 | 5,988 | 95,101 | 515 | 3,004 | 535 | 558 | 2,023 | 1,005 | 330 |
| Fabricated metal- _ products | 18 | 5,306 | 93,116 | 22,603 | 115,719 | 112 | 1,875 | 326 | 333 | 1,016 | 866 | 56 |
| Fransport equip- ment | 32 | 1,528 | 136,166 | 16,652 | 152,818 | 745 | 2,699 | 495 | 459 | 1,585 | 1,078 | 110 |
| Other machinery and equipment. | 33 | 4,830 | 136,860 | 47,852 | 184,712 | 849 | 3,003 | 715 | 713 | 1,613 | 1,389 | 94 |
| Miscellaneous manufacturing . | 34 | 3,172 | 48,156 | 25,190 | 73,346 | 314 | 1,249 | 193 | 204 | 683 | 577 | 43 |
| Total manu- facturing. | | 36,437 | 952,099 | 345,489 | 1,297,588 | 5,820 | 26,373 | 4,187 | 4,306 | 15,746 | 10,745 | 1,244 |
| | | | | | 1: | 973-74 | | | | | | |
| Food, beverages and tobacco | 21-2 | 4,249 | 147,622 | 56,550 | 204,172 | 1,060 | 6,820 | 737 | 823 | 4,780 | 2,126 | 249 |
| Textiles Clothing and foot- | 23 | 897 | 30,101 | 24,518 | 54,619 | 260 | 1,161 | 207 | 274 | 748 | 481 | 45 |
| wear Wood, wood pro- ducts and furni- | 24 | 3,180 | 24,217 | 85,751 | 109,968 | 424 | 1,442 | 205 | 258 | 819 | 676 | 20 |
| ture | 25 | 6,038 | 73,142 | 12,535 | 85,677 | 393 | 1,601 | 166 | 219 | 901 | 753 | 58 |
| Paper and paper products, printing Chemical, petro- | 26 | 3,683 | 78,247 | 29,787 | 108,034 | 602 | 2,143 | 228 | 282 | 1,087 | 1,111 | 73 |
| leum and coal products | 27 | 1,169 | 48,659 | 18,448 | 67,107 | 422 | 2,396 | 347 | 414 | 1,387 | 1,076 | 106 |
| Non-metallic min- eral products | 28 | 1,911 | 49,574 | 5,882 | 55,456 | 339 | 1,358 | 144 | 166 | 716 | 664 | 96 |
| Basic metal pro- | 29 | 642 | 90,852 | 7,297 | 98,149 | 650 | 3,866 | 563 | 659 | 2,631 | 1,331 | 211 |
| Fabricated metal products | 31 | 5,434 | 94,346 | 24,694 | 119,040 | 621 | 2,270 | 330 | 416 | 1,269 | 1,087 | 56 |
| Transport equip- ment | 32 | 1,608 | 138,160 | 20,720 | 158,880 | 933 | 3,056 | 455 | 583 | 1,846 | 1,337 | 125 |
| Other machinery and equipment. | 33 | 5,001 | 144,134 | 54,837 | 198,971 | 1,069 | 3,606 | 712 | 906 | 2,027 | 1,774 | 110 |
| Miscellaneous manufacturing . | 34 | 3,332 | 50,334 | 28,037 | 78,371 | 402 | 1,526 | 205 | 268 | 856 | 733 | 66 |
| Total manu- facturing. | | 37,144 | 969,388 | 369.056 | 1,338,444 | 7,177 | 31,247 | 4,299 | 5,268 | 19,067 | 13,149 | 1,215 |

⁽a) Australian Standard Industrial Classification. fixed tangible assets less disposals.

⁽b) Average over whole year. Includes working proprietors.

Employment

The statistics on the number of persons employed shown in the following table relates to the average whole year employment including working proprietors, and including those working at separately located administrative offices and ancillary units in the State.

It should be noted that persons employed in each State (and their wages and salaries) relate to those employed at establishments, administrative offices or ancillary units located in that State, even though the administrative offices or ancillary units may have served establishments located in another State.

MANUFACTURING ESTABLISHMENTS—MALES, FEMALES AND PERSONS EMPLOYED BY INDUSTRY SUB-DIVISION: 1971-72, 1972-73 AND 1973-74

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--|--------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|---|----------------|------------------|
| | | 1 | MALES | EMPLO | OYED | | | | | |
| Food, beverages and tobacco | 21-2 | 47,919 | 45,203 | 26,490 | 12,960 | 9,797 | 4,393 | 407 | 453 | 147,622 |
| Textiles | 23 24 | 8,787 6,986 | 16,771 14,464 | 871 1,186 | 1,470 1,152 | 517 325 | 1,685 104 | • • | • • | 30,101 |
| Wood, wood products and | | | | - | | | | ••• | • • • | 24,217 |
| furniture Paper and paper products, | 25 | 24,319 | 17,790 | 11,279 | 7,543 | 7,154 | 4,594 | 80 | 383 | 73,142 |
| printing | 26 | 29,324 | 25,899 | 7,146 | 5,545 | 4,343 | 4,912 | 119 | 959 | 78,247 |
| Chemical, petroleum and coal products | 27 | 22,051 | 17,046 | 2,932 | 2,456 | 2,833 | 1,339 | | 2 | 48,659 |
| Non-metallic mineral products | 28 | 20,035 | 13,498 | 6,065 | 3,849 | 4,470 | 1.065 | 221 | 371 | 49,57 |
| Basic metal products Fabricated metal products . | 29 31 | 54,475 35,468 | 11,698 30,846 | 4,778 9,849 | 9,689 9,508 | 5,528 7,075 | 3,592 1,143 | 1,157 | 392 { | 90,85 94,34 |
| Transport equipment | 32 | 41,398 | 54,201 | 11,242 | 25,103 | 4,874 | 1,183 | (b) | (b) \ | 138,16 |
| Other machinery and equip- ment | 33 | 60,937 | 52,122 | 8,845 | 15,145 | 5,920 | 937 | (b) | (b) | 144,13 |
| Miscellaneous manufacturing | 34 | 19,665 | 21,383 | 3,094 | 4,351 | 1,566 | 256 | Ž | 17 | 50,33 |
| Total manufacturing . | 1973-74 1972-73 | 371,364 367,938 | 320,921 314,759 | 93,777 92,861 | 98,771 95,581 | 54,402 51,733 | 25,203 24,668 | 2,114 1,872 | 2,836 2,687 | 969,38 |
| | 1971-72 | 375,262 | 310,750 | 91,241 | 96,194 | 52,049 | 24,856 | 1,014 | 2,601 | 952,09 953,96 |
| | | F | EMALE | S EMP | LOYED | | | | | |
| Food, beverages and tobacco | 21-2 | 18,221 7,533 | 18,465 | 7,481 | 5,653 | 4,485 275 | 1,955 | 125 | 165 | 56,55 |
| Textiles | 23 | 7,533 | 12,566 | 1,015 | 1,171 | 275 | 1,958 | | | 24,51 |
| Clothing and footwear . Wood, wood products and | 24 | 30,113 | 45,632 | 4,872 | 3,370 | 1,508 | 256 | • • | •• | 85,75 |
| furniture | 25 | 4,158 | 3,131 | 2,056 | 1,421 | 1,317 | 377 | 11 | 64 | 12,53 |
| Paper and paper products, printing | 26 | 12,494 | 9,571 | 2,588 | 2,047 | 1,665 | 900 | 55 | 467 | 29,78 |
| Chemical, petroleum and coal | 27 | • | , | • | 570 | • | 06 | | | 18,44 |
| products Non-metallic mineral products | | 10,707 2,352 | 6,129 2,161 | 566 376 | 434 | 390 435 | 86 83 | iż | 28 | 5,88 |
| Basic metal products | 29 | 3,709 | 1,483 | 281 | 1,100 | 481 | 147 \ | 126 | 87{ | |
| Fabricated metal products. Transport equipment. | 31 32 | 10,424 5,931 | 8,215 10,781 | 2,234 765 | 2,354 2,802 | 1,136 214 | 214 \$ 217 | (b) | (b) | 24,69 20,72 |
| Other machinery and equip- | | | | | - | | | | | |
| ment | 33 34 | 27,026 12,189 | 19,175 11,608 | 1,234 1,315 | 6,357 2,185 | 890 686 | 85 46 | (b) | (b) 8 | 54,83 28,03 |
| | 1973-74 | • | 148,917 | 24,783 | 29,464 | 13,482 | 6,324 | 336 | 893 | 369.05 |
| Total manufacturing . | 1972-73 | 135,691 | 141,004 | 23,484 | 25,815 | 12,344 | 6,016 | 364 | 771 | 345,48 |
| | 1971-72 | | 139,276 | 23,127 | 25,382 | 12,168 | 6,151 | 180 | 732 | 347,67 |
| | | P | ERSON | s емрі | LOYED | | | | | |
| Food, beverages and tobacco | 21-2 | 66,140 | 63,668 | 33,971 | 18,613 | 14,282 792 | 6,348 | 532 | 618 | 204,17 |
| Textiles | 23 24 | 16,320 37,099 | 29,337 60,096 | 1,886 6,058 | 2,641 4,522 | 1,833 | 3,643 360 | • | | 54,61 109,96 |
| Wood, wood products and | | • | • | - | - | | | | | |
| furniture | 25 | 28,477 | 20,921 | 13,335 | 8,964 | 8,471 | 4,971 | 91 | 447 | 85,67 |
| printing | 26 | 41,818 | 35,470 | 9,734 | 7,592 | 6,008 | 5,812 | 174 | 1,426 | 108,03 |
| Chemical, petroleum and coal | 27 | | 23,175 | 3,498 | 3,026 | 3,223 | 1,425 | | 2 | 67,10 |
| products Non-metallic mineral products | 28 | 32,758 22,387 | 15,659 | 6,441 | 4,283 | 4,905 | 1,148 | 234 | - | 55,45 |
| Basic metal products | 29 | 58,184 | 13,181 | 5,059 | 10,789 | 6,009 | 3,739 € | 1,283 | 479 { | 98,14 119,04 |
| Fabricated metal products . Transport equipment | 31 32 | 45,892 47,329 | 39,061 64,982 | 12,083 12,007 | 11,862 27,905 | 8,211 5,088 | 1,357 \$ 1,400 | (b) | (b) \ | 158,88 |
| Other machinery and equip- | 33 | 87,963 | 71,297 | 10,079 | 21,502 | 6,810 | 1,022 | (b) | (b) | 198,97 |
| ment | 34 | 31,854 | 32,991 | 4,409 | 6,536 | 2,252 | 302 | 2 | 25 | 78,37 |
| Total manufacturing . | | | 469,838 | 118,560 | - | 67,884 | 31,527 | 2.450 | | 1,338,44 |
| . amuuacumi | 1972-73 | 503,629 | 455,763 | 116,345 | 121,396 | 64,077 | 30,684 | 2.236 | 3,458 | 1,297,58 |
| | 1971-72 | 515,918 | 450,026 | 114,368 | 121,576 | 64,217 | 31,007 | 1,194 | 3,333 | 1,301,63 |

⁽a) Australian Standard Industrial Classification.

⁽b) Not available for publication.

Wages and salaries

The following table shows wages and salaries of all employees of manufacturing establishments including those working at separately located administrative offices and ancillary units in the State. Drawings of working proprietors are not included.

MANUFACTURING ESTABLISHMENTS—WAGES AND SALARIES BY INDUSTRY SUB-DIVISION: 1971-72, 1972-73 AND 1973-74

(\$ million)

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|-------------------------------|--------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------|---|-------------------------|
| Food, beverages and tobacco | 21-2 | 357 | 342 | 173 | 86 | 66 | 29 | 3 | 3 | 1,060 |
| Textiles | 23 | 79 | 143 | 7 | 12 | 4 | 14 | | | 260 |
| Clothing and footwear Wood, wood products and | 24 | 141 | 240 | 20 | 16 | 6 | 1 | •• | •• | 424 |
| furniture | 25 | 136 | 98 | 56 | 40 | 37 | 23 | | 3 | 393 |
| printing | 26 | 238 | 201 | 50 | 40 | 30 | 34 | 1 | 8 | 602 |
| products | 27 | 207 | 145 | 22 | 18 | 21 | 10 | | | 422 |
| Non-metallic mineral products | 28 | 143 | 95 | 38 | 25 | 28 | - 7 | · i | ٠; | 339 |
| Basic metal products | 29 | 382 | 88 | 35 | 67 | 43 | 25 ٦ | | | 650 |
| Fabricated metal products . | 31 | 249 | 206 | 58 | 58 | 40 | -67 | 11 | 34 | 621 |
| Transport equipment. Other machinery and equip- | 32 | 272 | 396 | 63 | 167 | 28 | 7 | (b) | (b) | 933 |
| ment | 33 | 474 | 395 | 53 | 105 | 36 | 5 | (b) | (b) | 1,069 |
| Miscellaneous manufacturing | 34 | 164 | 176 | 20 | 31 | ğ | ĭ | | • | 402 |
| Total manufacturing . | 1973-74 1972-73 1971-72 | 2,332 | 2,524 2,045 1,800 | 596 483 426 | 666 523 469 | 347 275 256 | 161 131 119 | 18 14 6 | 22 16 15 | 7,177 5,820 5,250 |

⁽a) Australian Standard Industrial Classification.

Turnover

The following table shows the value of turnover of manufacturing establishments. The figures include sales of goods whether produced by the establishment or not, transfers out of goods to other establishments of the same enterprise, bounties and subsidies on production, plus all other operating revenue from outside the enterprise, such as commission, repair and service revenue and the value of capital work done on own account. Rents, leasing revenue, interest (other than hire purchase), royalties and receipts from the sale of fixed tangible assets are excluded.

MANUFACTURING ESTABLISHMENTS—TURNOVER, BY INDUSTRY SUB-DIVISION 1971-72, 1972-73 AND 1973-74

(\$ million)

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------------------------------|-----------------|---------|--------|-------|-------|-------|------|------|--------|--------|
| Food, beverages and tobacco | 21-2 | 2,079 | 2,391 | 1,200 | 497 | 427 | 196 | 18 | 12 | 6,820 |
| Textiles | 23 | 362 | 621 | 33 | 69 | 18 | 58 | | | 1,161 |
| Clothing and footwear | 24 | 516 | 800 | 56 | 52 | 15 | 3 | | | 1,442 |
| Wood, wood products and | | | | | | | | | | - |
| furniture | 25 | 556 | 393 | 214 | 177 | 134 | 116 | 2 | 9 | 1,601 |
| Paper and paper products, | | | | | | | | | | • |
| printing | 26 | 857 | 725 | 165 | 153 | 93 | 130 | 2 | 20 | 2,143 |
| Chemical, petroleum and coal | | | | | | | | | | _,_, |
| products | 27 | 1,182 | 751 | 186 | 94 | 140 | 44 | | | 2,396 |
| Non-metallic mineral products | | 522 | 369 | 178 | 108 | 128 | 29 | ٠; | 16 | 1,358 |
| Basic metal products | 29 | 1,968 | 467 | 459 | 360 | 375 | 1837 | | | 3,866 |
| Fabricated metal products . | 31 | 865 | 758 | 224 | 218 | 168 | 25 } | 55 | 114 | 2,270 |
| Transport equipment | 32 | 791 | 1,387 | 280 | 492 | 87 | 17 | (b) | (b) C | 3,056 |
| Other machinery and equip- | J. | • • • • | 1,507 | 200 | 772 | 0, | | (0) | (0) | -, |
| | 33 | 1,632 | 1,315 | 182 | 340 | 119 | 13 | (b) | (b) | 3,606 |
| Miscellaneous manufacturing | 34 | | 693 | 84 | 102 | 39 | 4 | | | 1,526 |
| | | | | | | | | • • | | |
| Total manufacturing . | 1973-74 | | 10,669 | 3,261 | 2,663 | 1,741 | 818 | 87 | 76 | 31,247 |
| - | 1972-73 | | 9,078 | 2,845 | 2,172 | 1,376 | 679 | 43 | 61 | 26,373 |
| | 1971-72 | 9,276 | 8,055 | 2,433 | 1,941 | 1,240 | 596 | 29 | 50 | 23,620 |

⁽c) Australian Standard Industrial Classification.

Purchases, transfers in and selected expenses

The following table gives details of the value of purchases, transfers in and selected expenses. Figures include purchases of materials, fuel, power, containers, etc., plus transfers in of goods from other establishments of the enterprise, plus charges for commission and sub-contract work, repair and maintenance expenses, outward freight and cartage, motor vehicle running expenses and sales commission payments.

⁽b) Not available for publication.

⁽b) Not available for publication.

MANUFACTURING ESTABLISHMENTS—PURCHASES, TRANSFERS IN AND SELECTED EXPENSES, BY INDUSTRY SUB-DIVISION: 1971-72, 1972-73 AND 1973-74 (\$ million)

| Industry sub-division | ASIC code(a) | N.S.IV. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|-------------------|----------------|----------------|----------------------------|
| Food, beverages and tobacco | 21-2 | 1,458 | 1,695 | 855 | 324 | 298 | 131 | 12 | 8 | 4,780 |
| Textiles | 23 | 233 | 402 | 21 | 48 | 10 | 34 | | •• | 748 |
| Clothing and footwear. Wood, wood products and | 24 | 302 | 451 | 29 | 29 | 7 | 1 | • • • | | 819 |
| furniture. Paper and paper products, | 25 | 313 | 221 | 115 | 108 | 73 | 65 | 1 | 5 | 901 |
| printing . Chemical, petroleum and coal | 26 | 437 | 371 | 80 | 81 | 41 | 72 | •• | 5 | 1,087 |
| products | 27 | 669 | 422 | 127 | 55 | 87 | 27 | | | 1,387 |
| Non-metallic mineral products | 28 | 277 | 188 | 97 | 56 | 68 | 14 | | ii | 716 |
| Basic metal products | 29 | 1,290 | 332 | 319 | 244 | 298 | 1217 | | · · · · · · · | 2,631 |
| Fabricated metal products . | 31 | 471 | 423 | 127 | 128 | 99 | 14 } | 27 | 64 | 1,269 |
| Transport equipment Other machinery and equip- | 32 | 443 | 848 | 176 | 329 | 41 | 'n | (b) | (b) | 1,846 |
| ment | 33 | 912 | 737 | 106 | 194 | 69 | 6 | (b) | (b) | 2,027 |
| Miscellaneous manufacturing | 34 | 330 | 395 | 50 | 55 | 23 | 6 2 | (0) | (0) | 856 |
| Total manufacturing . | 1973-74 1972-73 197172 | 7,135 5,891 5,443 | 6,486 5,392 4,812 | 2,100 1,834 1,584 | 1,651 1,286 1,169 | 1,116 894 777 | 495 395 359 | 46 23 18 | 39 31 25 | 19,067 15,746 14,186 |

(a) Australian Standard Industrial Classification.

(b) Not available for publication.

(b) Not available for publication.

Stocks

Statistics on the value of opening and closing stocks at 30 June are shown in the following table. Figures include all the stocks of materials, fuels, etc., and finished goods and work-in-progress of the establishment whether located at the establishment or elsewhere.

MANUFACTURING ESTABLISHMENTS—OPENING AND CLOSING STOCKS 1971-72, 1972-73 AND 1973-74 BY INDUSTRY SUB-DIVISION

(\$ million)

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|-----------------|--------|------------|----------|----------|---------|------|------|------------------|-------|
| | OI | PENING | STOCKS | AT | 30 JUNE | 1973 | | | • | |
| Food, beverages and tobacco | 21-2 | 235 | 266 | 85 | 101 | 26 | 23 | 2 | | 737 |
| Textiles | 23 | 66 | 105 | 5 | 12 | 3 | 14 | | :: | 207 |
| Clothing and footwear | 24 | 72 | 113 | 9 | 9 | 2 | | •• | • • • | 205 |
| Wood, wood products and | | | | | | | | | | |
| furniture | 25 | 55 | 41 | 22 | 18 | 16 | 15 | | 1 | 166 |
| Paper and paper products, | | | | | | _ | | | _ | |
| printing | 26 | 90 | 18 | 18 | 13 | 9 | 15 | • • | 2 | 228 |
| Chemical, petroleum and coal | | | | | | | _ | | | |
| products | 27 | 175 | 119 | 22 | 10 | 15 | 6 | •: | • • | 347 |
| Non-metallic mineral products | 28 | 65 | 35 | 16 | 10 | 13 | 3 | 1 | 1, | 144 |
| Basic metal products | 29 | 289 | 64 | 57 | 55 | 53 | 31 } | 13 | 1₹ | 563 |
| Fabricated metal products . | 31 | 126 | 118 220 | 31 34 | 30 75 | 19 | 45 | (1) | | 330 |
| Transport equipment . | 32 | 114 | 220 | 34 | 15 | 8 | 4 | (b) | (b) ³ | 455 |
| Other machinery and equip- | 33 | 308 | 295 | 29 | 56 | 22 | 2 | (b) | (b) | 712 |
| ment | 33 | 81 | 293 95 | 10 | 14 | 4 | í | (0) | | 205 |
| Miscellaneous manufacturing Total manufacturing . | 34 | 1,675 | 1,553 | 337 | 404 | 191 | 117 | iż | · 6 | 4,299 |
| - Total manufacturing . | | | | | | | | | | |
| | C | LOSING | STOCKS | ΑT | 30 JUNE | 1974 | | _ | | |
| Food, beverages and tobacco | 21-2 | 278 | 296 | 90 | 105 | 28 | 24 | 2 | | 823 |
| Textiles | 23 | 86 | 149 | 9 | 11 | 3 | 17 | | | 274 |
| Clothing and footwear | 24 | 90 | 141 | 13 | 11 | 2 | • • | | | 258 |
| Wood, wood products and | | | | | | | | | | |
| furniture. | 25 | 72 | 55 | 28 | 26 | 20 | 17 | •• | 1 | 219 |
| Paper and paper products, | | | | | | | | | _ | |
| printing | 26 | 113 | 100 | 22 | 17 | 11 | 17 | • • | 2 | 282 |
| Chemical, petroleum and coal | | | | | | | _ | | | |
| products | 27 | 218 | 135 | 22 | 12 | 20 | 7 | •: | •: | 414 |
| Non-metallic mineral products | 28 | 73 | 44 | 19 | 12 | 13 | 3 | 1 | 1 | 166 |
| Basic metal products | 29 | 330 | 81 | 62 | 74 | 53 | 38 } | 23 | 2{ | 659 |
| Fabricated metal products . | 31 | 154 | 148 | 41 | 40 | 26 | 45 | | | 416 |
| Transport equipment | 32 | 155 | 276 | 38 | 100 | 9 | 5 | (b) | (b) | 583 |
| Other machinery and equip- | 33 | 387 | 368 | 37 | 77 | 22 | • | (1) | (L) | 906 |
| ment | 33 34 | 107 | 122 | 15 | 18 | 33 6 | 2 | (b) | (b) | 268 |
| Miscellaneous manufacturing | 34 | | | | | _ | - | • • | • • | |
| Total manufacturing . | • | 2,062 | 1,915 | 397 | 502 | 224 | 134 | 26 | 8 | 5,268 |
| Opening stocks | 1972-73 | 1,661 | 1,502 | 331 | 399 | 164 | 117 | 9 | 5 | 4,187 |
| - F | 1971-72 | 1,556 | 1,404 | 317 | 368 | 160 | 108 | 3 | 4 | 3,920 |
| Clasias stades | 1972-73 | 1,689 | 1,553 | 333 | 410 | 183 | 116 | 17 | 6 | 4,306 |
| Closing stocks | 1971-72 | | 1,489 | 338 | 399 | 169 | îiř | 4 | 5 | 4,183 |

⁽a) Australian Standard Industrial Classification.

Value added

The statistics on value added contained in the following table have been calculated by adding to the value of turnover the increase (or deducting the decrease) in the value of stocks, and deducting the value of purchases, transfers in and selected expenses. A more detailed description of the method of deriving value added is given on page 729.

MANUFACTURING ESTABLISHMENTS—VALUE ADDED, BY INDUSTRY SUB-DIVISION 1971-72, 1972-73 AND 1973-74

(\$ million)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------------------|--|---|--|---|---|---|----------|---|--|
| 21-2 | 664 | 727 | 350 | 176 | 131 | 67 | 6 | 5 | 2,126 |
| 23 | 149 | 263 | 16 | 20 | 7 | 27 | | | 481 |
| 24 | 231 | 377 | 33 | 25 | 8 | 2 | • • | • • | 676 |
| 25 | 260 | 186 | 106 | 77 | 66 | 52 | 1 | 5 | 753 |
| 26 | 443 | 372 | 90 | 77 | 52 | 60 | 2 | 15 | 1,111 |
| 27 | 555 | 345 | 60 | 41 | 57 | 17 | | | 1,076 |
| | | | | | | | 4 | ż | 664 |
| 29 | 719 | | | 135 | 76 | 69 ገ | 20 | ا ء | 1,331 |
| 31 | 422 | | | | | | 38 | र्भ | 1,087 |
| 32 | 388 | 596 | 108 | 187 | 46 | 12 | (b) | (b) \ | 1,337 |
| 33 | 799 | 651 | 84 | 168 | 61 | 7 | (b) | (b) | 1,774 |
| 34 | 299 | 325 | 39 | 51 | 17 | 2 | | | 733 |
| 973-74 972-73 | 5.184 4,257 | 4,546 3,738 | 1,220 1,013 | 1,110 897 | 658 501 | 340 283 | 51 28 | 40 30 | 13,149 10,746 9,697 |
| | 23 24 25 26 27 28 29 31 32 33 34 973-74 | 23 149 24 231 25 260 26 443 27 555 28 254 29 31 422 32 388 33 799 34 299 973-74 5.184 972-73 4,257 | 23 149 263 24 231 377 25 260 186 26 443 372 27 555 345 28 254 189 29 719 151 31 422 365 32 388 596 33 799 651 34 299 325 973-74 5.184 4,546 972-73 4,257 3,738 | 23 149 263 16 24 231 377 33 25 260 186 106 26 443 372 90 27 555 345 60 28 254 189 83 29 719 151 145 31 422 365 106 32 388 596 108 33 799 651 84 34 299 325 39 973-74 5.184 4.546 1,220 972-73 4,257 3,738 1,013 | 23 149 263 16 20 24 231 377 33 25 25 260 186 106 77 26 443 372 90 77 27 555 345 60 41 28 254 189 83 54 29 719 151 145 135 31 422 365 106 100 32 388 596 108 187 33 799 651 84 168 34 299 325 39 51 973-74 5.184 4.546 1.220 1.110 972-73 4.257 3,738 1,013 897 | 23 149 263 16 20 7 24 231 377 33 25 8 25 260 186 106 77 66 26 443 372 90 77 52 27 555 345 60 41 57 28 254 189 83 54 60 29 719 151 145 135 76 31 422 365 106 100 75 32 388 596 108 187 46 33 799 651 84 168 61 34 299 325 39 51 17 973-74 5.184 4,546 1,220 1,110 658 972-73 4,257 3,738 1,013 897 501 | 23 | 23 149 263 16 20 7 27 24 231 377 33 25 8 2 25 260 186 106 77 66 52 1 26 443 372 90 77 52 60 2 27 555 345 60 41 57 17 28 254 189 83 54 60 15 4 29 719 151 145 135 76 69 38 31 422 365 106 100 75 11 38 32 388 596 108 187 46 12 (b) 33 799 651 84 168 61 7 (b) 34 299 325 39 51 17 2 973-74 5.184 4,546 1,220 1,110 658 340 51 972-73 4,257 3,738 1,013 897 501 283 28 | 23 149 263 16 20 7 27 24 231 377 33 25 8 2 25 260 186 106 77 66 52 1 5 26 443 372 90 77 52 60 2 15 27 555 345 60 41 57 17 28 254 189 83 54 60 15 4 5 29 719 151 145 135 76 69 38 5 31 422 365 106 100 75 11 38 5 32 388 596 108 187 46 12 (b) (b) 33 799 651 84 168 61 7 (b) (b) 34 299 325 39 51 17 2 973-74 5.184 4,546 1,220 1,110 658 340 51 40 972-73 4,257 3,738 1,013 |

⁽a) Australian Standard Industrial Classification.

Number of establishments

The following table shows the number of establishments, in each State, in operation at 30 June for the years indicated. These figures relate to manufacturing establishments as such and do not include the numbers of separately located administrative offices and ancillary units.

MANUFACTURING ESTABLISHMENTS—NUMBER OF ESTABLISHMENTS IN OPERATION AT END OF YEAR 1971-72, 1972-73 AND 1973-74, BY INDUSTRY SUB-DIVISION

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|-------------------------------|----------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------|------------------|-------------------|----------------------------|
| Food, beverages and tobacco | 21-2 | 1,236 | 1.205 | 757 | 443 | 421 | 152 | 24 | 11 | 4,249 |
| Textiles | 23 | 309 | 420 | 64 | 50 | 35 | 19 | | | 897 |
| Clothing and footwear Wood, wood products and | 24 | 1,222 | 1,613 | 156 | 108 | 68 | 13 | • • | • • | 3,180 |
| furniture | 25 | 1,974 | 1,569 | 1,027 | 509 | 579 | 336 | 12 | 32 | 6,038 |
| printing . Chemical petroleum and coal | 26 | 1,561 | 1,238 | 309 | 248 | 225 | 65 | 8 | 29 | 3,683 |
| products | 27 | 536 | 373 | 79 | 80 | 80 | 21 | | | 1,169 |
| Non-metallic mineral products | 28 | 688 | 472 | 276 | 163 | 208 | 66 | 21 | 17 | 1,911 |
| Basic metal products | 29 | 240 | 219 | 59 | 62 | 43 | 13 | 4 | 2 | 642 |
| Fabricated metal products . | 31 | 2,165 | 1.553 | 643 | 452 | 476 | 99 | 25 | 21 | 5,434 |
| Transport equipment | 32 | 478 | 507 | 223 | 184 | 172 | 37 | 5 | 2 | 1,608 |
| Other machinery and equip- | | | | | | | | | | , |
| ment | 33 | 2,134 | 1.740 | 342 | 410 | 285 | 72 | 3 | 15 | 5,001 |
| Miscellaneous manufacturing | 34 | 1,266 | 1,161 | 354 | 277 | 226 | 42 | | 6 | 3,332 |
| Total manufacturing . | 1973-74 1972-73 1971-72 | 13,809 13,619 13,943 | 12,070 11,734 11,408 | 4,289 4,212 4,001 | 2,986 2,914 2,979 | 2,818 2,814 2,727 | 935 912 933 | 102 100 80 | 135 132 135 | 37,144 36,437 36,206 |

(a) Australian Standard Industrial Classification.

Electricity and gas establishments

As mentioned on page 727, the electricity and gas industries, which were previously included in the Annual Factory Census, have been the subject of separate censuses as from 1968-69. In addition the electricity and gas census has been extended to cover distribution as well as production. The following tables show statistics for the years 1969-70 and 1971-72. Censuses were not conducted for 1970-71, 1972-73 or for 1973-74.

For electricity and gas, the basic census unit is an exception to the general concept of the standardised unit. Because of the nature of the activities of electricity and gas undertakings, the single

⁽b) Not available for publication.

operating location basis is not suitable. The establishment unit used consists of all locations, including administrative offices and ancillary units, mainly concerned with the production and/or distribution of electricity or gas, operated by the undertaking in the one State. The use of this concept is one of the reasons for the number of electricity and gas establishments since 1968-69 being considerably less than in previous years. The other main reason is that until 1967-68, a number of electricity generating stations operated by enterprises principally for their own use were included. However, as from 1968-69 these generating stations have been included in the electricity census only if sales and transfers of electricity exceeded \$100,000 in value.

ELECTRICITY AND GAS ESTABLISHMENTS(a), SUMMARY OF OPERATIONS STATES AND TERRITORIES, 1969-70 AND 1971-72

| | Number of establish- ments | Persons | s employed(| (b) | Wages | | Stocks at | : 30 June | Pur- chases, transfers in and | | Fixed capital |
|------------------------------------|-------------------------------------|-----------------|------------------|----------------------|--------------------------|--------------------------|---------------|------------------|--|-------------------------|------------------------------|
| State or Territory | operating during year | Males (No.) | Females (No.) | Total (No.) | and salaries (\$m) | Turnover (c) (\$m) | Opening (\$m) | Closing (\$m) | selected expenses (\$m) | Vatue added (\$m) | expendi- ture(d) (\$m) |
| | | | | | 1969-70 | | | | | | |
| New South Wales- | | | | | | | | | | • • • | |
| Electricity Gas Victoria— | 51 34 | 23,628 2,769 | 2,358 502 | 25,986 3,271 | 113 12 | 580 44 | 45 3 | 47 3 | 277 18 | 305 27 | 165 2 |
| Electricity Gas | 13 8 | 13,558 3,447 | 1,311 574 | 14,869 4,021 | 64 19 | 289 57 | 21 6 | 23 5 | 94 17 | 197 39 | 96 20 |
| Queensland— Electricity . | 21 7 | 7,760 592 | 772 115 | 8,532 707 | 32 2 | 158 10 | 11 1 | 11 1 | 63 4 | 94 6 | 52 1 |
| South Australia— Electricity | 18 | 5,576 | 185 | 5,761 | 23 | 91 | 7 | 6 | 26 | 64 | 25 |
| Western Australia— Electricity | 5 7 | 3,598 | 291 | 3,889 | 15 | 62 | 6 | 7 | 18 | 44 | 39 |
| Tasmania— Electricity | • 6 | 2,552 | 202 | 2,754 | 12 | 39 | 5 | 5 | 1 | 39 | 44 |
| Northern Territory— Electricity | 6 | · (e) | (e) | (e) | (e) | e) | (e) | (e) | (e) | (e) | (e) |
| Gas | _ | cc 252 | | <0.004 | | | 0.4 | | 400 | # 20 | 425 |
| Electricity Gas | 166 56 | 55,753 8,338 | 5,071 1,312 | 60,824 9,650 | 255 39 | 1,213 129 | 94 11 | 99 10 | 480 44 | 738 84 | 425 27 |
| | | | | | 1971–72 | | | | | | |
| New South Wales— Electricity | 49 23 | 23,469 2,352 | 2,395 524 | 25,864 2,876 | 140 13 | 707 49 | 50 3 | 54 3 | 345 18 | 367 30 | 154 4 |
| Electricity Gas | 13 } | 16,409 | 1,816 | 18,225 | 99 | 375 | 27 | 28 | 136 | 239 | 116 |
| Queensland— Electricity | 21 7 | 8,038 565 | 837 104 | 8,87 5 669 | 45 3 | 194 12 | 13 1 | 14 1 | 79 5 | 116 7 | 66 1 |
| South Australia— Electricity | 16 | 6,174 | 358 | 6,532 | 34 | 106 | 9 | 9 | 29 | 78 | 42 |
| Western Australia— Electricity | 48 | 4,275 | 331 | 4,606 | 23 | 82 | 8 | 8 | 23 | 60 | 81 |
| Tasmania— Electricity | 5 | 2,727 | 244 | 2,971 | 15 | 48 | 5 | 5 | 2 | 46 | 35 |
| Northern Territory— Electricity | 6] | | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) |
| Electricity .] | · 1 | | ·-/ | ζ-7 | (-) | •-• | ••• | •-/ | | / | |
| Australia— Electricity Gas | 153 40 | 57,089 7,409 | 5,391 1,298 | 62,480 8,707 | 332 41 | 1,444 148 | 105 10 | 112 11 | 591 57 | 861 91 | 452 43 |

⁽a) Covers production and distribution. (b) At end of June. Includes working proprietors. (c) In some States electricity is produced by certain undertakings and sold to other undertakings for distribution. In these States sales of electricity are duplicated due to the inclusion of the bulk sales to these distributors. (d) Outlay on fixed tangible assets less disposals. (e) Not available for publication. Included in total for Australia.

Principal factory products

The factory production of certain commodities is shown in the monthly and quarterly publications of the ABS, and in the bulletin *Manufacturing Commodities—Principal Articles Produced* (12.26).

The following table shows the total recorded production of some of the principal articles (i.e. of those for which production can be represented in quantitative terms) manufactured in Australia. A more complete list, where available, is published in the aforementioned bulletin.

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA

| Commodity code | Article | | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-----------------------------------|---|---|-----------------|-----------------|------------------|--------------|
| | Acid (in terms of 100%)— | | | | | |
| 401.29 | Hydrochloric | . tonnes | 47,370 | 40,719 | 53,888 | 41,968 |
| 401 37 | Nitrie | . ,, | 140,317 | 149,092 | 185,646 | 173,970 |
| 401.57 | Sulphuric | . '000 tonnes | 1,756 | 2,266 | 2,434 | 1,770 |
| 171.03, 04, 07, 08 | Aerated and carbonated waters | . '000 litres | 773,620 | 861,070 | 884,757 | 834,034 |
| (57.02.05 | Air-conditioning equipment— | | 44.040 | 20.505 | 40.060 | 61 63 |
| 657.03, 05 | Room air conditioners (refrigerated). | . No. | 41,843 | 29,506 | 49,860 | 51,625 (a |
| 657.13, 15 | Room air coolers (evaporative coolers) | . ,, | 50,007 | 44,033 | 105,317 | 22,02 |
| 657.21, 22, 23 475.04.06.07.85 | Package unit air conditioners . Asbestos cement building sheets (finished) | . '000 m' | 9,277 36,647 | 8,623 38,646 | 20,037 43,723 | 42,040 |
| ¥73.04, 00, 07, 83 | Assestes cement bunding sheets (mished) | . 000111- | 30,047 | 38,040 | 43,723 | 42,01 |
| | Bags, leather, fibre, etc.— Handbags— | | | | | |
| 864.31 | Leather | . '000 | 509 | 371 | 334 | n.a |
| 864.33 | Plastic | | 1,655 | 1,271 | 1,279 | n.a |
| 864.39 | Oakas | • , , , , , , | 383 | 359 | 346 | n.a |
| 946.01-52 | Hessian and calico bags | . '000 doz | 3,948 | 2,085 | 2,689 | n.a |
| 864.11-19 | Suitcases, kitbags and trunks | . '000 | 1,778 | 1,707 | 1,543 | n.a |
| | Bath heaters— | | | | | |
| 652.01 | Electric | . No. | 7,394 | 7,001 | 7,556 | 6,11 |
| 652.03, 06, 08 | Gas | • " | 3,358 | 2,767 | 2,346 | 1,28 |
| 652.05 | Solid fuel | ' 1000 4-" | 6,516 | 3,779 | 3,932 345 | 3,28 21 |
| 779.02-36 | Bathing suits(b) Baths (exclude infants baths)— | . '000 doz | 342 | 322 | 343 | 21 |
| 671.03 | Baths (exclude infants baths)— Pressed steel—Enamelled. | . '000 | 125 | 153 | 165 | 13 |
| 671.01, 04, 08 | Other (exclude pressed steel, galvanised) | | 75 | 51 | 47 | 4 |
| 071.01, 04, 00 | Batteries, wet cell type— | . ,, | ,, | 31 | | • |
| 685.13, 15 | Auto (S.L.I.) 6 volts | . '000 | 380 | 372 | 375 | 36 |
| 685.17, 19 | Auto (S.L.I.) 12 volts | | 2,095 | 2,089 | 2,168 | 2,42 |
| 685.33, 35 | Radio, homelighter, fencer . No. o | of 2 volt cells | 57,396 | 47,194 | 50,233 | 39,89 |
| 685.43-65 | Traction, plant and other | . ,, | 157,971 | 140,399 | 196,132 | 217,14 |
| 172.02, 04, 06 | Beer (excluding waste beer) | mil. litres | 1,665 | 1,756 | 1,868 | 1,95 |
| 064.21 | Biscuits | . '000 kg | 116,633 | 117,701 | 120,628 | 119,27 |
| 372,374 | Plankets, Woollen-Pure and Mixtures | . ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,832 | 1,688 | 1,700 | 1,47 |
| 152.02 | Bran (wheaten) | . '000 tonnes | 134 | 126 | 124 2,474 | |
| 172.21 | Brandy | '000 litre Al | 4,484 819 | 3,561 807 | 812 | n.: 59 |
| 777.41,49 066.01-31 | Brassieres | . tonnes | 55,318 | 57,366 | 58,780 | 64.60 |
| 472.01, 03 | Breakfast food, cereal (ready to eat) Bricks, clay | . million | 1,744 | 1.881 | 2,050 | 1,71 |
| 261.41 | Briquettes, brown coal | . '000 tonnes | 1,308 | 1,221 | 1,164 | 1.09 |
| | Butter-from cream (exclude whey cream) | . '000 kg | 195,407 | 184,081 | 174,122 | 161,27 |
| 773.51, 53, 74, | Cardigans, jumpers, etc | . '000 doz | 1,930 | 2,050 | 2,041 | 1,67 |
| 75, 83 <i>}</i> 474.02 | Cement, Portland | . '000 tonnes | 4.884 | 5.097 | 5,412 | 5,08 |
| 051 | Cheese (non-processed) | . '000kg | 80,871 | 93,445 | 95,793 | 98,78 |
| | Cloth (including mixtures)— | . OUGLE | 00,071 | 30, | 50,.50 | , |
| 373.10-52 | Cotton(c) | . '000 m² | 47.147 | 46,391 | 50,361 | 41,36 |
| 374.02-16 | Rayon and acetate | , | 21,258 | 22,957 | 23,082 | 16,55 |
| 374.20-34 | Synthetic (non-cellulosic) | , ,, | 41,555 | 85,761 | 107,278 | 84,83 |
| 372.02-50 | Wool (excluding blanketing and rug) | | 13,870 | 9,946 | 9,250 | 7,30 |
| 435.22 | CokeMetallurgical | . '000 tonnes | 4,136 | 4,926 | 4,291 | 5,49 |
| 475.90 | Concrete, ready mixed | . '000 m | 9,748 | 10,403 | 10,849 | 10,04 |
| | Confectionery— | | | | | |
| 104.06-18 | Chocolate | . '000 kg | 52,597 | 50,151 | 55,799 | 63,64 |
| 104.21-29 | Other | | 59,062 | 61,191 | 60,993 | 62,74 |
| 452.04 | Copper, refined(d) | . '000 tonnes | 131 | 136 | 149 | 17 |
| | Coppers (wash boilers)— | | 2,792 | 2,248 | (a) | n. |
| 653.31 | Electric | . No. | | | | |

⁽a) Not available for publication. ('Includes swim shorts. Excludes infants' and babies' swim-wear. (c) Excludes tyre-cord fabric and towelling. (d) Primary origin only.

PRINCIPAL FACTORY PRODUCTS

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA—continued

| Commoditv code | Article | | 1971-72 | 1972-73 | 1973-74 | 1974–75 |
|----------------------------------|--|-----------------------------|------------------|-----------------|------------------|------------------|
| 171 06 10 | Cardials and surves | 2000 lisaaa | 68,495 | 01.217 | 02.022 | 01.073 |
| 171.06, 10 777.01-29 | Cordials and syrups | . '000 litres . '000 doz | 255 | 81,217 п.а. | 92,833 237 | 91,273 |
| 611.01 | Cycles (complete) | . 000,002 | 131 | 166 | 193 | 183 216 |
| 011.01 | | | | | 1,,, | 210 |
| 804.01 | Dentifrices (toothpaste) | . '000 kg | 5,546 | 5,266 | 5,653 | n.a. |
| | Electric generators— | | | | | |
| 503.06 | Non-automotive—Alternating current | . No. | 3,081 | 2,691 | 5,679 | п.а. |
| 503.08 | Direct current . | mil. kWh | 139 | n.a. 64,802 | n.a. | n.a. |
| 499.42 523.76-78 | Electrodes for manual welding . | . '000 kg | 59,501 23,453 | 21,000 | 69,743 24,890 | 73,933 26,958 |
| 502.22-39 | Engines, spark and compression ignition(a) | . 000 | 355 | 430 | 484 | 374 |
| | Essences, flavouring— | 1000 12 | 417 | 200 | 202 | |
| 139.31 | Domestic | . '000 litres | 417 5,017 | 398 5,409 | 393 | n.a. |
| 139.35 | maustriai | . ,, | 3,017 | 3,403 | 6,310 | n.a. |
| 802.11, 12 | Face powder | , '000 kg | 12ó | 113 | 144 | n.a. |
| 696.01, 03, 05 | Fans, electric (propeller type) | No. | 405,196 | 457,110 | 622,993 | 616.430 |
| 045.01,51 | Fish, canned (including fish loaf) . | , '000 kg | 6,322 | 7,136 | 6,140 | 12,262 |
| 222.06 | Floorboards— Australian timber | . m³ | 310,041 | 331,516 | 320,319 | |
| 332.06 332.08 | Imported timber | | 1,006 | 366 | 286 | n.a. n.a. |
| 332.00 | Floor coverings— | | | | | |
| 841.01-07 | Textile | . '000 m³ | 21,594 | 25,671 | 30,747 | 23,308 |
| 841.31-61, 69 | Smooth surface and embossed | • ,, | 13,104 234 | 13,057 224 | 11,893 201 | 8,187 135 |
| 841.67, 68 841.85 | Underfelts, underlays, etc.(b) | . ,, | 17.459 | 16,454 | 17,116 | 15,150 |
| 692.21, 23 | Floor polishers, electric | No. | 35,998 | 30,816 | 30,234 | 24,981 |
| | Flour— | 10001 | 40.451 | 20.404 | 42.050 | |
| 068.01 062.01, 10, 32 | Self-raising | . '000 kg .'000 tonnes | 42,451 1,204 | 38,496 1,134 | 43,057 1,178 | n.a. 1,263 |
| 002.01, 10, 32 | Fruit juices, natural— | . ooo tomics | 1,204 | 1,154 | 1,170 | 1,203 |
| 074.61-69, 79 | Single strength | . '000 litres | 91,547 | 186,769 | 166,327 | n.a. |
| 074.76, 89 | Concentrated(d) | . ,, | 12,808 | 13,939 | 7,634 | n.a. |
| | 6 1 | | 2.70. | 2 | 2.560 | 2.040 |
| 781.06-31 127.21 | Gloves, work(e) | '000 doz pairs '000 kg | 2,791 52,632 | 3,141 57,414 | 3,560 59,661 | 3,848 59,205 |
| 832.58, 59 | Golf clubs | . doz | 50,131 | 59,725 | 64,769 | 38,917 |
| , | | | | • | • | |
| | Handkerchiefs | | | | | |
| 786.01 | Men's | . '000 doz | 1,672 | 1,215 | 1,213 | n.a. |
| 786.11 | Women's | • " | 1,249 | 1,212 | 1,395 | n.a. |
| 651.01, 03 | Solid fuel | No. | 9,767 | 6,823 | 5,246 | 3,842 |
| 651.11-17 | Electric radiators and fires | , '000 | 813 | 801 | 845 | 813 |
| 651.04, 05, 21, | Gas fires and space heaters | . No. | 58,421 | 67,583 | 74,764 | 68,861 |
| 22, 26, 27 | Hosiery— | | | | | |
| 775 | Women's (including panty hose) . ' | 000 doz pairs | 7,518 | 8,920 | n.a. | 7,108 |
| | Men's | • ,, | 1,831 | 1,975 | 2,172 | 1,709 |
| | Childrens' and infants' | . " | 1,147 | 1,244 | 1,189 | 891 |
| 201 04 | In made | . '000 tonnes | 116 | 116 | 126 | n.a. |
| 281.04 051.61 | Ice, made | . '000 litres | 196,522 | 210,387 | 215,063 | 206,857 |
| 051.87, 89, 90 | Infants', invalids' and health beverages | | • | • | - | • |
| | from cows milk(g) | . '000 kg | 26,999 | 26,882 | 24,247 | 33,489 |
| 419.31 | Ink, printing— News | | 11,243 | 10,940 | 9,486 | n.a. |
| 419.43-59 | Other | . ,, | 11,716 | 13,880 | n.a. | n.a. |
| | Iron and steel— | | | | | |
| 442.04, 08 | Pig iron. | . '000 tonnes | 6,006 | 7,021 | 7,444 7,504 | 7,591 |
| 442.80-83 442.28 | Steel ingots | . ,, | 6,480 5,569 | 7,209 6,180 | 6,467 | 8,017 6,260 |
| 693.51, 61, 63 | Irons, electric (hand, domestic) | . '000' | 7,593 | 643 | 675 | 781 |
| | , | | | | | |
| 076.60 | Jams (including conserves, jellies, etc.) | '000 kg | 34,927 | 34,769 | 32,745 | 30,285 |
| | | | | | | |
| 391.04 | Lard | . " | 2,385 | 2,736 | 3,207 | n.a. |
| 600 52 53 | Lawn mowers— | . No. | 293,350 | 340,656 | 395,399 | 298,753 |
| 699.52, 53 699.41, 45, 55, 61 | Petrol, rotary | . 110. | 19,219 | 15,883 | 21,769 | 18,858 |
| 453.04 | Lead refined(j) | . '000 tonnes | 191 | 174 | 201 | 171 |
| | | | | | | |

⁽a) Petrol and diesel. Excludes car, motor cycle, truck, tractor, aero, and marine engines.

(b) Needled (or bonded) felts of jute or jute/hair mixtures (for all purposes).

(c) Includes wheatmeal for baking and sharps and other flour.

(d) Excludes grape must.

(e) Excludes fabric liners for dipped gloves but includes moulded or heat-sealed work gloves.

(f) Includes ice-cream combined with other confections. Including those aerated milk-based confections which contain 10% or more butterfat.

(g) Includes malted milk and milk sugar (lactose).

(h) Primary mills output.

(i) Petrol cylinder, electric and hand.

(j) Includes lead content of lead alloys from primary sources, but excludes lead-silver bullion.

MANUFACTURING INDUSTRY

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA—continued

| | | | | | | | |
|---|---|-----------|-----------|--------------------|-------------------------------|--------------------|----------|
| Commodity ode A | Article | | | 1971-72 | 1972-73 | 1973-74 | 1974- |
| | Leather- | | | | | | |
| 01.43-65 | Dressed or finished— Chrome tanned (including retanned) | ١ | '000 m | 6,123 | 5,489 | 5,982 | n. |
| 01.31-37, 83-89 | Chrome tanned (including retanned) Vegetable tanned, by weight | , : | '000 kg | 3,684 | 3,873 | n.a. | n. |
| 01.67, 69 | Vegetable tanned, by measurement | | '000 m² | 233 | 191 | 165 | n. |
| | Lime | | | | | | |
| 75 . 43, 45 | Crushed | • | tonnes | 206,327 | 222,598 147,131 447,782 | 239,047 | n. |
| 79.18 | Hydrated | • | ** | 139,181 423,196 | 147,131 | 163,780 538,721 | n. |
| 79.12 02.21 | Quick | • | 1,,, | 423,196 | 41,782 | 53,006 | n. n. |
| 02.21 | Lipstick | • | kg | 43,422 | 41,723 | 33,000 | 11. |
| 63.11-21,31 | Malt (excluding extract) | | '000 kg | 372,536 | 339,243 | 378,004 | 440,8 |
| 21.01 | Table | | | 17,599 | 21,615 | 25,963 | 31,5 |
| 21.06, 08 | Other | : | " | 54,426 | 55,972 | 57,120 | 55,3 |
| , | Mattresses— | | | | | | |
| 44.22, 25, 27 | Inner spring | | '000 | 696 | 738 | 749 | 6 |
| 44 . 42, 45, 47 | Rubber | | ,, | 45 | 34 | 39 | _ |
| 44 . 52–67 | Other | • | " | 332 | 477 | 583 | 5 |
| 27.02-76 | Meat, canned(a) | | '000 kg | 59,032 | 51,019 | 52,903 | 43,4 |
| 02.01 | Meters (domestic)— | | 1000 | 215 | 287 | 312 | 3 |
| 02.01 | Electricity consumption | • | '000 | 215 68 | 65 | 66 | 3 |
| 03.01 03.11 | Gas consumption | • | •• | 158 | 167 | 193 | 1 |
| 3.11 | Milk, condensed, concentrated and evapo | rated | ** | 120 | 107 | 173 | • |
| 51.21, 22 | Full cream, coffee and milk, sweetened | d . | '000 kg | 16,705 | 14,635 | 13,392 | 14,4 |
| 1 . 26, 27, 052 . 42 | Full cream, unsweetened | - : | ,, | 47,832 | 38,293 | 33,203 | 34,6 |
| 1.28 | Skim | | ,, | 11,489 | 11,943 | 11,949 | 11,0 |
| | Milk powder in powered form— | | •• | | | | |
| 51.72, 73 | Full cream | | ,, | 28,763 | 37,080 | 36,991 | 44,4 |
| 1.76–79 | Skim | • | ,, | 92,680 | 117,576 | 143,789 | 157,6 |
| 1.81,82 | Buttermilk or mixed skim and butterm | nilk . | " | 14,528 | 15,422 | 16,199 | 11,5 |
| 3.17-32 | Motors, electric | • | '000 | 3,466 | 3,680 | 4,658 | 4,5 |
| 1 02 00 | Motor vehicles, finished— | | NT- | 240 122 | 319,561 | 331,303 | 306,0 |
| 81.02-08 81.10-16 | Cars | • | No. | 340,122 51,931 | 50,017 | 51,028 | 55,3 |
| 31.10-16 32.04 | Station wagons | • | ** | 34,105 | 31,411 | 29,215 | 29,9 |
| 32.04 | Panel vans | • | ** | 20,330 | 25,456 | 26,715 | 28,8 |
| 32.08-24 | Truck and truck-type vehicles | • | " | 3,357 | 5,496 | 4,786 | 7,6 |
| | Motor vehicles, partly finished- | - | ,, | -, | , | • | • |
| 31.22-28 | Cars, station wagons, utilities vans . | | | 2,244 | 1,729 | 1,424 | 9 |
| 32.31, 32 | | • | ,, | - | | - | |
| 32.33-46 | Trucks and truck-type vehicles | • | | 18,982 | 20,256 | 24,943 | 25,4 |
| 39.81–89 | Motor vehicle safety belts | • | '000 | 3,727 | 3,139 | 2,997 | n |
| 65.16, 17 | Nails | | tonnes | 24,392 | 25,259 | 27,351 | 22,6 |
| 32.03, 04 | Neckties | . ' | 000 doz | 620 | 616 | n.a. | n |
| | Oatmeal and rolled oats— | | | | | | |
| 62.61,63 | For porridge, etc | | tonnes | 17,247 | 14,419 | 19,268 | 14,0 |
|)3 \ | Oils and fats, crude-Vegetable | | 000 kg | 66,533 | 75,390 | 75,048 | n |
|)4 } | Ons and rais, crade regulation. | • | OUO Kg | 0.,,555 | .0,050 | , | |
| | Paints, etc.— | | | | | | |
| | Architectural and decorative(b)— Solvent thinned— | | | | | | |
| 10.01 | Primers and undercoats | . '0 | 00 litres | 13,334 | 13,139 | 12,797 | 11.9 |
| 10.03, 05, 07 | Finishing coats | | ** | 29,654 | 31,957 | 32,524 | 30,2 |
| ,, | Water thinned- | | | - | , | | |
| 10.11, 13, 15 | Plastic latex | | ,, | 24,567 | 27,241 | 28,908 | 28,3 |
| 10.17 | Other water based | . •. | ** | 441 | 377 | 322 | 3 |
| 0.25 | Tinting colours (all types) packed for transfer out | or sale o | r | 327 | 407 | 445 | 5 |
| | Paper— | | | | | | |
| 51.11 | Newsprint | '00 |) tonnes | 181 | 199 | 204 | 1 |
| 51.18-79 | Other | | ,, | 526 | 548 | 653 | 5 |
| 52.11-33 | Paperboard | | ** | 382 | 411 | 444 | 4 |
| 75.04,09,11 | Perambulators, pushers and strollers . | | '00Ő | 177 | 197 | 207 | 226 |
| 79.22 | Plaster of paris | | tonnes | 314,748 | 341,954 | 361,189 | 336,3 |
| | Plaster sheets—Non-acoustic | | '000 m | 34,315 | 39,151 | 44,105 | 42,0 |
| 79.32, 33 | | | | | | | |
| 79.32, 33 34.32, 34, 36, 38 52.06 | Plywood, 1 mm basis Pollard from wheat | . 100 | 0 tonnes | 103,078 256 | 114,173 232 | n.a. 242 | 2 |

⁽a) Excludes poultry and baby food. (b) Excludes heavy duty coatings.

PRINCIPAL FACTORY PRODUCTS

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA—continued

| Commodity code | Article | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|----------------------------------|---|--------------------|--------------------|-------------------|--------------------|
| | Preserves— | | | | |
| 076.01-50 074.01 | Fruit Canned or bottled . '000 kg Pulp and puree—single strength . , ,, | 253,791 4,464 | 272,983 3,876 | 213,112 4,708 | 239,406 n.a. |
| 094.02–47 092.02,06,10,19 | Vegetables— Canned or bottled , , , Quick frozen , , , , , | 113,892 91,624 | 105,933 94,380 | 121,940 93,250 | 132,382 105,540 |
| 774 . 20, 22, 27, 29 | Pyjamas— Men's, youth's and boy's (suits only) . '000 doz | 468 | 413 | 414 | 345 |
| 774.50–59, 64, 66 | Women's, maid's and girl's (incl. night- dresses) | 883 | 814 | 853 | 802 |
| 832.65, 85 643.01-37 | Racquet frames (all types) , , , , Radio receiving sets (including radiograms) . No. | 19,019 770,343 | 19,896 879,848 | 19,952 n.a. | 14,262 285,114 |
| 646.35.65 | Records (phonograph)— Single play | 5,965 | 5,470 | 6,050 | 5,927 |
| 646.37,41,67,71 | Extended play ,, | 805 | 862 | 676 | 375 |
| 646.43, 45, 73, 75 657.32, 41 | Long play , ,, Refrigerators, domestic, electric and gas , ,, | 15,066 263 | 15,666 236 | 20,212 274 | 21,444 222 |
| 403,404 | Resins, plastics and synthetic, for all purposes '000 tonnes | 285 | 339 | 386 | 366 |
| 061.67, 69 | Rice, polished, unpolished and broken . '000 kg | 202,434 | 216,187 | 203,536 | n.a. |
| 372.70, 72 374.59 } | Rugs | 186 | 126 | 133 | 117 |
| 123.18-25 | Sauce | 29,107 | 27,392 | 30,434 | n.a. |
| 062.04 773.02-09 | Semolina | 24 | 22 | 25 | 25 |
| | attached(a) | 650 | 700 | 770 | 520 |
| 653.01 | Sink heaters, electric No. | 9,315 239,902 | 9,509 253,758 | 10,463 | 7,796 |
| 671.11-18 805.01-13 | Sinks, steel and other (standard size) . , , Soap, for personal toilet use (b) tonnes | 29,028 | 29,069 | 262,275 31,433 | 209,894 27,071 |
| 122.02, 09 | Soup— Canned '000 litres | 41,960 | 48,825 | 51,202 | 53,801 |
| 122.13, 15 | Dry-mix | 5,882 | 6,693 | 9,048 | n.a. |
| 127.11-19 401.53 | Starch (incl. cornflour) | 132,666 6,490 | 143,799 5,620 | 164,787 5,854 | 145,169 n.a. |
| 461.20 | Steel, constructional, fabricated tonnes Stoves, ovens and ranges, domestic cooking— | 696,790 | 651,204 | 600,138 | n.a. |
| 661.01-11 | Electric(c) No. | 227,314 | 247,460 | 258,984 | 254,678 |
| 662.26-31,34, 36,42,43 | Gas(d) | 89,343 | 92,996 | 113,649 | 106,301 |
| 662.01, 03 | Solid fuel | 7,612 | 6,200 | 5,150 | 4,751 |
| 102.01 | Sugar— Raw | 2,793 | 2,811 | 2,531 | n.a. |
| 102.12 | Refined , | 664 | 653 | 657 | 729 |
| 405.36 415.07 | Sulphate of ammonia tonnes Superphosphate(e) | 111,107 3,612 | 227,864 4,962 | 246,014 5,288 | 266,483 3,309 |
| 803.61 | Talcum powder | 4,738 | 4,148 | 4,133 | n.a. |
| 391.14, 16 | Tallow (including dripping), rendered— Edible , | 89,927 | 94,892 | 88,655 | n.a. |
| 391.24 | Inedible ,, | 294,602 | 278,485 396,540 | 230,331 | n.a. |
| 643.49-67 | Television sets No. | 361,169 432,309 | 396,540 | 446,988 | 465,401 |
| 645.51-58 | Television picture tubes incorp. new screens . ,, Tiles, roofing— | 432,309 | 355,307 | 393,287 | 152,571 |
| 475.30 | Concrete | 196,192 | 222,970 | 241,386 | 200,080 |
| 472.12 | Timber— | 170,172 | 222,510 | 241,500 | 200,000 |
| 221 01 07 | From native logs— Hardwood, etc '000 m ³ | 2,582 | 2,560 | 2,563 | |
| 331.01-07 331.09-19 | Hardwood, etc '000 m' Softwood , , | 782 | 848 | 773 | п.а. п.а. |
| 331.23, 25 | From imported logs | 9 | 5 | 1 | n.a. |
| 661.21, 23 | Toasters, electric (domestic) . No. Tobacco . '000 kg | 373,399 3,038 | 453,637 2,671 | 547,591 2,399 | 617,621 n.a. |
| 183.21-28 094.51 | Tomato juice | 15,140 | 9,786 | 9,845 | 13,913 |
| 094.53 | Tomato paste and puree | 9,392 | 9,342 | 15,367 | n.a. |
| 373.58-64 | Towels | 936 430,205 | 889 463,828 | 1,020 545,346 | 662 449,603 |
| 671.51-59 683.03-11 | Transformers, chokes and ballasts, for distri- | | • | | |
| | bution of power and light, etc , | 14,946 | 11,754 | 13,397 | 17,456 |
| 863.01 774 | Umbrellas, street and general purpose . No. Underwear (men's, women's, children's) . '000 doz | 731,658 6,728 | 734,814 6,884 | 896,065 8,428 | n.a. 6,457 |
| | | | | | |

⁽a) Business or formal. (b) Excludes powdered shampoo. (c) Includes wall ovens but excludes cooking tops and portable units. (d) Upright and elevated (with ovens) including wall ovens, but excluding hotplates, stovettes, etc. (e) Includes ammonium phosphate.

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA—continued

| Commodity code | Article | | | | | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|---------------------------|-----------------------------|-----------|---|------|------------|---------|---------|---------|---------|
| 692.02,04 | Vacuum cleaners (domestic) | | | | '000 | 174 | 209 | 240 | 250 |
| | Wash basins— | | | | | | | | |
| 671.37 | Earthenware | | | | 11 | 233 | 278 | 292 | 274 |
| 693.02-18 | Washing machines, household | , electri | c | | ,, | 312 | 340 | 375 | 315 |
| | Weatherboards— | • | | | " | | | | |
| 332.12 | Australian timber | | | | m³ | 33,496 | 35,083 | 34,148 | n.a. |
| 332.14 | Imported timber | | | | ,, | 5,535 | 5.944 | 2,291 | n.a. |
| 152.14 | Wheatmeal for stock feed . | | | .'00 | 00 tonnes | 313 | 496 | 621 | 458 |
| 519.01 | Wheelbarrows (metal) . | | | | No. | 144,080 | 169,400 | 179,841 | n.a. |
| | Wine, beverage— | | | | | • | • | • | |
| 172.42 | Fortified | | | . , | 000 litres | 59,922 | 54,536 | 62,353 | 69,952 |
| 172.46 | Unfortified | | | | ,, | 94,387 | 115,738 | 149,448 | 170,561 |
| 341.31-45 | Wood pulp (air dried) . | | | .'00 | 0 tonnes | 506 | 532 | 617 | 571 |
| 242.07-11 | Wool, scoured or carbonised | | | | tonnes | 68,254 | 59,338 | 53,687 | 51,772 |
| 242.33,35 | Wool tops, pure | • | • | • | '000 kg | 17,493 | 19,735 | 14,240 | 8,296 |
| | Yarn (including mixtures)— | | | | | | | | |
| 364.11-50 | Cotton | | | | | 27,763 | 28,216 | 30,996 | 24,204 |
| 363.47-75 | Woollen | • | • | • | ,, | 19,147 | 17,914 | 17,721 | 13,780 |
| 363.17-31 | Wool worsted | • | • | • | ** | 8,665 | 8,759 | 7,219 | 4,232 |
| 365.38-65 | Rayon and acetate, spun | • | • | • | ,, | 5,575 | 5,088 | 3,610 | 1,92 |
| 365.90, 366.03, |) Kuyon and accuate, span | • | • | • | ,, | 5,0.0 | 2,000 | 5,010 | -, |
| 04, 16, 29, 30, | 1 | | | | | | | | |
| 42, 55, 56, 88, 96, 97 | | bres spu | n | • | ** | 7,009 | 11,467 | 16,521 | 10,096 |
| 457.04 | Zinc, refined(a) | | | .'0 | 00 tonnes | 274 | 299 | 282 | 243 |

(a) Primary origin only includes small quantities of zinc dust.

Enterprise and Industry Concentration Statistics

Industry statistics shown earlier in this chapter relate to *establishments*. Statistics are also available from the 1968-69 Economic Censuses for *enterprises* engaged in manufacturing industry. A description of the statistics and broad summary tables are given in the Miscellaneous chapter.

Similarly *industry concentration* statistics have been published for 1968-69. These aim to show the extent to which individual enterprise groups dominate particular industries. A description and summary tables of these statistics are also given in the Miscellaneous chapter.

Foreign Ownership and Control in Manufacturing Industry

Summary information on foreign ownership and control in manufacturing industry is shown in Chapter 11. More detailed statistics are available in Foreign Control in Manufacturing Industry. Study of Large Enterprise Groups, 1972-73 (Advance Release) (12.34), Foreign Control in Manufacturing Industry. Study of Large Enterprise Groups, 1972-73 (12.35), Foreign Ownership and Control in Manufacturing Industry, 1972-73 (Advance Release) (12.37) and Foreign Ownership and Control in Manufacturing Industry, 1972-73 (12.38).

CHAPTER 22

RURAL INDUSTRY

This chapter is divided into nine major parts:

Land tenure; Rural land use; Crops; Livestock and livestock products; Beekeeping; Rural improvements, conservation and consumption of fodder; Agricultural machinery on rural holdings; Rural employment; Assistance to, and control of, agriculture.

For more up-to-date and detailed information on the subjects dealt with in this chapter see the following mimeographed publications issued by the A.B.S.

Annual publications

| R | No. |
|---|-----|
| | |

- 10.15 Principal Agricultural Statistics, First Estimate
- 10.63 Principal Agricultural Statistics, Second Estimate
- 10.57 Crop and Fruit Statistics
- 10.14 Livestock Statistics
- 10.11 Fruit Growing Industry
- 10.58 Crop Statistics
- 10.59 Rural Land Use, Improvements, Agricultural Machinery and Labour
- 10.36 Wheat Industry: Estimates of Intended Sowings
- 10.52 Wheat Industry: Estimates of Area Sown
- 10.53 Wheat Industry: Estimates of Production
- 10.35 Wheat Industry
- 10.38 Wool Production and Utilisation
- 10.3 Beekeeping
- 10.5 Dairying Industry
- 10.54 Meat Industry
- 10.78 Mushroom Growing Statistics
- 10.79 Nursery Statistics
- 10.24 Value of Primary Commodities Produced, First Estimate
- 10.25 Value of Primary Commodities Produced, Second Estimate
- 10.27 Value of Primary Commodities Produced, Final
- 10.77 Estimates of Turnover Expenditure and Cash Operating Surplus of Agricultural producers
- 10.10 Apparent Consumption of Foodstuffs and Nutrients
- 10.82 Structural Statistics of the Agricultural Sector
- 12.7 Manufacturing Commodities

Monthly and quarterly publications

- 10.6 Wholemilk Production and Utilisation
- 10.16 Meat Industry
- 10.44 Chicken Hatchings and Poultry Slaughterings
- 10.70 Brokers and Dealers Receivals of Taxable Wool
- 10.74 Livestock Slaughtered and Meat Produced (Qtly)
- 12.14 Quarterly Bulletin of Production Statistics

Particulars of rural holdings classified by size, main type of activity, etc. are published in Classification of Rural Holdings by Size and Type of Activity (10.28).

For estimated figures of rural debt to specified lenders for the years 1968-69 to 1972-73 see page 545 of this Year Book.

Throughout this chapter yearly periods for area and production of crops relate to years ended 31 March. Other periods in respect of e.g. factory and trade statistics relate to years ended 30 June.

LAND TENURE

Disposal of Crown lands

Land legislation and tenures

The following sections contain figures showing the extent of the different land tenures in the States and Territories, classified under broad headings indicating the nature of the tenure, together with some general descriptive matter. Information in greater detail, descriptions of the land tenure systems of the States and the Territories, and conspectuses of land legislation in force and of the systems of land tenure were provided in Year Book No. 48 and previous issues (see also Year Book No. 50, page 85 and List of Special Articles, etc. preceding General Index to this Volume).

Free grants and reservations

Provision exists in all States except Tasmania for the disposal of Crown lands for public purposes by free grants, and in all States for the temporary and or permanent reservation of Crown lands for public purposes. In the Northern Territory any Crown lands not subject to any right of, or contract for, purchase may be resumed for public purposes, and the whole or any portion of the lands resumed may be reserved for that purpose. In the Australian Capital Territory, under the Seat of Government (Administration) Act 1910, Crown lands may not be sold or disposed of for any estate in freehold except in pursuance of some contract entered into before the commencement of the Act.

AREAS OF CROWN LANDS RESERVED
('000 hectares)

| Year(| a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Total |
|-------|----|--------|----------|--------|-------|--------|-------|--------|--------|---------|
| 1971 | | 6.373 | (b)3,153 | 11.589 | 9,283 | 36,557 | 2,679 | 25,231 | | 94,865 |
| 1972 | | 6,340 | (b)3,154 | 11,567 | 9.285 | 39,010 | 2,688 | 25,231 | 9 | 97,284 |
| 1973 | | 6,331 | 6,776 | 11,336 | 9,285 | 39,099 | 2,431 | 26,587 | 10 | 101,855 |
| 1974 | | 6,096 | 6,583 | 11,847 | 9,290 | 39,103 | 2,471 | 25,243 | 10 | 100,643 |
| 1975 | | 6,034 | 6,561 | n.a. | 9,311 | 40,061 | 2,486 | 25,246 | 10 | n.a. |

⁽a) Data for States and Territories other than Queensland is at 30 June; Queensland data is at 31 December. (b) Excludes areas set aside for roads.

The purposes for which areas were reserved are given below for the latest year available as set out in the table above.

New South Wales. For travelling stock, 1,985,426 hectares; forest reserves, 521,258 hectares; water and camping reserves, 280,659 hectares; mining reserves, 378,890 hectares; recreation and parks, 318,338 hectares; other reserves, 2,549,516 hectares; total 6,034,087 hectares.

Victoria. Water reserves, 88,665 hectares; forest and timber reserves, 2,354,900 hectares; national parks, 227,320 hectares; water frontages, beds of streams and lakes, 342,535 hectares; native flora and fauna, 59,925 hectares; other reserves (including roads), 3,490,655 hectares; total 6,561,000 hectares.

Queensland. For timber reserves, 666,762 hectares; State forests and national parks, 4,396,310 hectares; Aboriginal reserves, 2,774,928 hectares; streets, surveyed roads and stock routes, 1,835,219 hectares; general reserves, 2,173,509 hectares; total, 11,846,727 hectares.

South Australia. Total area of surveyed roads, railways and other reserves, 9,311,281 hectares including 7,930,215 hectares set apart as Aboriginal reserves.

Western Australia. For State forests, 1,832,124 hectares; timber reserves, 82,684 hectares; other reserves, 38,146,123 hectares; total, 40,060,931 hectares.

Tasmania. For forest reserves, 2,040,000 hectares; national parks and state reserves, 446,000 hectares; total, 2,486,000 hectares.

Northern Territory. For Aboriginal, defence and public requirements, 25,246,000 hectares.

Australian Capital Territory. For public parks and recreation reserves, 10,114 hectares.

Conditional and unconditional purchases of freehold

Crown lands in the States may be disposed of by unconditional purchase at public auction or by certain other forms of purchase (for details see Year Book No. 48, pages 91-2). Conditional purchases of various types may also be made. In the Northern Territory only 0.1 per cent of the total area is alienated, the remainder being held under lease or licence, or reserved for various purposes or unoccupied. In the Australian Capital Territory the progressive resumption of alienated land for the development of the Canberra City area has left less than 1.0 per cent of the area still alienated.

Leases and licences

Well over half the area of the States of New South Wales and South Australia and of the Northern Territory and about four-fifths of Queensland are occupied under some form of lease or licence. In Victoria, only about one-tenth of the area is leased or licensed, more than half being alienated; in Western Australia, more than one-third is leased or licensed, most of the remainder being unoccupied; in Tasmania about one-third is leased or licensed, while about one-quarter of the area of the State is occupied by the Crown or unoccupied, and the remainder alienated. Areas leased or licensed in the States are held under Crown lands Acts, closer settlement Acts, mining Acts, etc., and in the Territories under various Ordinances.

Land Acts and Ordinances. The types of lease and licence granted under land legislation cover a wide range, and vary with each State or Territory. The following are examples: grazing or pastoral, settlement and closer settlement, settlement purchase, conditional and unconditional purchase, perpetual and Crown; however, the variations of these forms and the special forms of lease and licence which exist would extend this list considerably. Details of the various types in existence are given in Year Book No. 48, pages 93-4, and some detail is included in the tables on pages 878-81 of Year Book No. 53.

AREAS OCCUPIED UNDER LEASE OR LICENCE OTHER THAN MINING AND FORESTRY
('000 hectares)

| Total | A.C.T. | N.T. | Tas. | W.A. | S.A. | Qld | Vic. | N.S.W. | 1) | ear(a |
|---------|--------|--------|------|---------|--------|---------|-------|--------|----|-------|
| 428,550 | 98 | 80,588 | 357 | 101,328 | 60,562 | 138,404 | 2,240 | 44,973 | | 971 |
| 431,082 | 96 | 80,967 | 247 | 102,017 | 60,167 | 140,404 | 2,253 | 44,931 | | 972 |
| 420,875 | 84 | 77,695 | 212 | 101,819 | 59,914 | 134,183 | 2,305 | 44,663 | | 973 |
| 419,743 | 78 | 78,375 | 200 | 100,572 | 60,354 | 133,513 | 2,467 | 44,184 | | 974 |
| n.a. | 73 | 78,368 | 185 | 100,928 | 60,106 | n.a. | 2,435 | 43,480 | | 975 |

⁽a) Data for States and Territories other than Queensland is at 30 June; Queensland data is at 31 December. (b) Leases and licences for all purposes.

Closer settlement and war service settlement

Closer settlement

Particulars of the methods of acquisition and disposal of land for the closer settlement of civilians and returned service personnel (1914–18 War) in the several States are given in issues of the Year Book up to No. 22 (see No. 22, pages 163–9), and the results of the operations of the several schemes have appeared in subsequent issues in considerable detail. However, the amalgamation in some States of closer settlement records with those of other authorities has since made it impossible to obtain up-to-date figures for those States and for Australia as a whole. Page 96 of Year Book No. 48 contains particulars as at 30 June 1960 of the areas and costs for those States for which separate information is available.

War Service Land Settlement Scheme

The War Service Land Settlement Scheme provides for the settlement on the land of eligible ex-servicemen from the 1939-45 War and the Korea-Malaya operations. Finance for capital expenditure under the scheme in South Australia, Western Australia and Tasmania and for special loans to New South Wales and Victoria is provided through Loan (War Service Land Settlement) Acts. Finance for other aspects of the scheme in all States is provided by annual parliamentary appropriation. The States Grants (War Service Land Settlement) Act 1952 provides that the responsible Commonwealth Government Minister may make grants of financial assistance to the States under such terms as he may from time to time determine. At 30 June 1970, 9,129 farms had been allotted from a total area of 5,640,000 hectares acquired and no further farms are to be provided.

Particulars of expenditure on war service land settlement, to 30 June 1968, are given in Year Book No. 55, pages 716-17.

Alienation and occupation of Crown lands

Detailed particulars of the alienation and occupation of Crown lands in the several States and Territories are given in previous issues of the Year Book up to No. 53 (see No. 53, pages 878-81).

The following table provides a summary for each State and Territory, and for Australia, of the alienation and occupation of Crown lands in 1975.

| ATTENIATION | ANTO | OCCUPATION | OF CROWN | LANDS 1975(a) |
|-------------|------|------------|----------|---------------|
| ALIENATION | AND | OCCUPATION | OF CROWN | LANUS 19/5(a) |

| | | | Private l | ands | | | Crown lar | ıds | | | |
|-----------------------|--------|----------|------------------|-------------|----------------------------|-------------|--------------------|-------------|--------------------|-------------|------------------|
| | | | Alienated | | In process a alienation | of | Leased or licensed | | Other(b) | | Total area |
| State or Territory | , | - | '000 hectares | Per cent | '000 hectares | Per cent | '000 hectares | Per cent | '000 hectares | Per cent | '000 hectares |
| N.S.W. | | | 25,868 | 32.3 | 1,570 | 2.0 | 44,044 | 55.0 | 8,661 [.] | 10.8 | 80,143 |
| Vic. | | | 13,642 | 59.9 | 123 | 0.5 | 2,435 | 10.7 | 6,561 | 28.8 | 22,760 |
| Qld . | | | 12,604 | 7.3 | 16,434 | 9.5 | 133,696 | 77.4 | 10,065 | 5.8 | 172,800 |
| S.A. | | | 6,692 | 6.8 | 98 | 0.1 | 60,106 | 61.1 | 31,542 | 32.2 | 98,438 |
| W.A. | | | 15,165 | 6.0 | 4,340 | 1.7 | 99,899 | 39.5 | 133,358 | 52.8 | 252,762 |
| Tas. | | | 2,755 | 40.3 | 159 | 2.3 | 2,009 | 29.4 | 1,910 | 28.0 | 6,833 |
| N.T. | | | 79 | 0.1 | | | 78,368 | 58.2 | 56,173 | 41.7 | 134,620 |
| A.C.T.(| :) . | | | | 2 | 0.9 | 73 | 30.1 | 168 | 69.0 | 243 |
| Aus | tralia | | 76,805 | 10.0 | 22,726 | 3.0 | 420,630 | 54.7 | 248,438 | 32.3 | 768,599 |

⁽a) Queensland data is at 31 December 1974; Western Australia at 31 December 1975; all other States and Territories at 30 June 1975. (b) Occupied by Crown; reserved; unoccupied; unreserved. (c) Includes Jervis Bay.

RURAL LAND USE

Area of rural holdings

Statistics relating to the area of rural holdings are derived from the annual Agricultural Census conducted at 31 March each year.

A rural holding has been defined for the purpose of these statistics, as a holding of one hectare or more in extent used for the production of agricultural products (including fruit and vegetables), or for the raising of livestock including poultry) and the production of livestock products. Holdings of less than one hectare on which commercial market gardens, nurseries, poultry farms or hatcheries are operated are also generally included.

RURAL HOLDINGS: AREA ('000 hectares)

| Year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|---------|------------|--------|---------|--------|---------|-------|--------|--------|---------|
| 1970–71 | 69,229 | 15,760 | 154,693 | 65.796 | 114.569 | 2.631 | 74,401 | 136 | 497,216 |
| 1971-72 | 69,001 | 15,884 | 154,404 | 65,146 | 114,471 | 2,607 | 77,889 | 133 | 499,535 |
| 1972-73 | 68,849 | 15,771 | 155,136 | 65,372 | 113,961 | 2,592 | 78,011 | 124 | 499,815 |
| 1973-74 | 68,881 | 15,485 | 154,506 | 64,843 | 114,653 | 2,561 | 79,486 | 106 | 500,522 |
| 197475 | 68,880 | 15,226 | 154,155 | 63,825 | 115,601 | 2,492 | 79,346 | 93 | 499,618 |

CROPS 745

Land utilisation on rural holdings

The following table shows the purposes for which the land on the rural holdings referred to in the preceding paragraphs was used.

RURAL HOLDINGS: LAND UTILISATION
('000 hectares)

| Year | Area used for crops(a) | Area under sown pastures and grasses | Balance of holdings(b) | Total area of holdings |
|--------------------------------|-------------------------------|---|------------------------|---------------------------|
| 1974–75— | | | | |
| New South Wales | 4,090 | 5,971 | 58,818 | 68,880 |
| Victoria | 1,772 | 6,565 | 6,889 | 15,226 |
| Queensland | 1,897 | 3,477 | 148,782 | 154,155 |
| South Australia | 2,257 | 3,641 | 57,928 | 63,825 |
| Western Australia | 3,754 | 7,850 | 103,997 | 115,601 |
| Tasmania | 67 | 921 | 1,504 | 2,492 |
| Northern Territory | 8 | 133 | 79,205 | 79,346 |
| Australian Capital Territory . | 1 | 26 | 66 | 93 |
| Australia | 13,845 | 28,585 | 457,188 | 499,618 |
| 1973–74 | 15,060 | 27,315 | 458,147 | 500,522 |
| 1972–73 | 14,255 | 26,130 | 459,430 | 499,815 |
| 1971–72 | 14,240 | 27,705 | 457,590 | 499,533 |
| 1970–71 | 13,397 | 28,035 | 455,784 | 497,216 |

⁽a) Excludes (i) duplication on account of area double cropped, (ii) pastures and grasses cut for hay and seed which have been included in Area under sown pastures and grasses, and differs therefore from crop area figures shown later in this chapter. (b) Used for intermittent grazing, lying idle, fallow, not suitable for agriculture, etc.

Classification by size and type of activity

Some of the information obtained from the 1968-69 Agricultural Census has been classified by size of principal characteristics (area of holdings, area of sown grasses and clovers, area of selected crops, and numbers of livestock). In addition, all holdings have been classified according to type of activity. Tables showing this information, for statistical divisions and States, and an outline of the methods used have been published in a series of bulletins Classification of Rural Holdings by Size and Type of Activity, 1968-69. Similar information was published in a series of bulletins for the years 1959-60 and 1965-66. Classifications of holdings by size of principal characteristics are available for each State for the years 1947-48, 1949-50 and 1955-56. Information for the year 1973-74 is available in the mimeograph bulletin Rural Land Use, Improvements, Agricultural Machinery and Labour (Ref. No. 10.59) and in Classification of Rural Holdings by Size and Type of Activity, 1973-74 (Ref. No. 10.28).

CROPS

In this section statistics relating to crop areas and production are obtained from the annual Agricultural Census. In most instances, the figures shown relate to 1974–75.

The census returns are collected in all States, the Northern Territory and the Australian Capital Territory, at 31 March each year, and relate mainly to crops sown in the previous twelve months. Where harvests are not completed by March (e.g. potatoes), provision is made in some States for a special collection after the harvest is completed and in others for the inclusion of the total estimated yield expected from the complete harvest. In cases where additional data are available from marketing authorities or other sources these are used in conjunction with the annual census returns. The statistics published in this section are therefore shown in 'agricultural' years. For most purposes there will be little error involved in considering them as applying to years ended 30 June.

Progress of cultivation

The following table shows the area of crops in each of the States and Territories of Australia at ten-yearly intervals since 1860-61 and during each of the twelve seasons 1963-64 to 1974-75.

RURAL INDUSTRY

AREA OF CROPS(a): 1860-61 TO 1974-75 ('000 hectares)

| Aust. | A.C.T. | N.T. | Tas. | W.A. | S.A. | Qld | Vic. | N.S.W. | Year |
|--------|--------|------|------|-------|-------|-------|-------|--------|----------|
| 475 | | | 62 | 10 | 145 | 2 | 157 | 100 | 1860-61 |
| 868 | | | 64 | 22 | 325 | 21 | 280 | 156 | 1870-71 |
| 1,846 | | | 57 | 26 | 846 | 46 | 627 | 245 | 1880-81 |
| 2,197 | | | 64 | 28 | 847 | 91 | 822 | 345 | 1890-91 |
| 3,567 | | | 91 | 81 | 959 | 185 | 1,260 | 990 | 1900-01 |
| 4,813 | | | 116 | 346 | 1,112 | 270 | 1,599 | 1,370 | 1910-11 |
| 6,099 | 1 | | 120 | 730 | 1,308 | 316 | 1,817 | 1,807 | 1920-21 |
| 10,184 | 2 | 1 | 108 | 1,939 | 2,196 | 463 | 2,718 | 2,756 | 1930-31 |
| 8,546 | 2 | | 103 | 1,630 | 1,722 | 702 | 1,808 | 2,580 | 1940-41 |
| 8,148 | 2 | n.a. | 117 | 1,882 | 1,543 | 841 | 1,836 | 1,927 | 1950-51 |
| 11,969 | 3 | 1 | 144 | 2,781 | 2,185 | 1,237 | 2,363 | 3,255 | 1960-61 |
| 12,968 | 3 | 1 | 154 | 2,798 | 2,418 | 1,483 | 2,469 | 3,641 | 1963-64 |
| 14,028 | 4 | 2 | 163 | 3,037 | 2,414 | 1,605 | 2,621 | 4,182 | 1964-65 |
| 13,961 | 3 | 2 | 156 | 3,513 | 2,440 | 1,667 | 2,517 | 3,663 | 1965-66 |
| 16,007 | 4 | 2 | 180 | 3,568 | 2,626 | 1,864 | 2,738 | 5,027 | 1966–67 |
| 14,578 | | 6 | 106 | 3,592 | 2,191 | 1,883 | 2,208 | 4,590 | 1967–68 |
| 16,665 | 3 | 6 | 110 | 3,838 | 2,596 | 2,071 | 2,529 | 5,509 | 1968-69 |
| 15,728 | 2 | 6 | 98 | 3,912 | 2,290 | 2,208 | 2,212 | 4,999 | 1969-70 |
| 13,397 | 1 | 2 | 80 | 3,826 | 1,998 | 1,791 | 1,732 | 3,967 | 1970-71 |
| 14,240 | 1 | 7 | 66 | 3,751 | 2,278 | 2,017 | 1,934 | 4,185 | 1971-72 |
| 14,255 | ī | 12 | 80 | 3,855 | 2,084 | 1,960 | 1,935 | 4,328 | 1972-73 |
| 15,060 | 1 | 5 | 74 | 4,133 | 2,451 | 1,787 | 1,980 | 4,628 | 1973-74 |
| 13,845 | î | 8 | 67 | 3,754 | 2,257 | 1,897 | 1,772 | 4,090 | 1974–75 |

⁽a) The classification of crops was revised in 1971-72 and adjustments made to statistics back to 1967-68. After 1966-67 lucerne for green feed, hay and seed, and pasture cut for hay are excluded.

Distribution of crops

The wide range of climatic and soil conditions over the agricultural regions of Australia has resulted in a diversity of crops being grown throughout the country. Generally, cereal crops (excluding rice and sorghum) are grown in all States over wide areas, while other crops are confined to specific locations in a few States.

AREA OF CROPS, 1974-75 (hectares)

| | | | | icciaics) | | | | | |
|---|-------------------|------------------|-------------------|-----------------|-----------------|---|--------|--------|----------------------|
| Crop | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| Cereals for grain- | | | | | | | | | |
| Barley— 2 row , . | 237,293 | 238,272 | 142,771 | 679,811 | 305,463 | 11,191 | | | 1,614,801 |
| 6 row | 89,303 | 4,680 | 13,548 | 20,854 | 81,535 | 829 | •• | | 210,749 |
| Total | 326,596 | 242,952 | 156,319 | 700,665 | 386,998 | 12,020 | | | 1,825,550 |
| Canary seed | 626 | 54 | 5,912 | 179 | : | | | | 6,771 |
| Grain sorghum . Maize | 176,209 22,177 | 85 543 | 328,886 28,675 | (a) | 1,674 (a) | • • | 4,235 | •• | 511,089 (b)51,395 |
| Oats | 269,913 | 197,807 | 25,406 | 134,861 | 262,347 | 6,069 | | 130 | 896,533 |
| Panicum and millet Rice | 807 72,925 | 1,880 | 19,418 2,637 | • • • | (a) | •• | (a) | :: | 22,105 (b)75,562 |
| Rye | 1,765 | 1,750 | (a) | 10,175 | 2,483 | 5 | | | (<i>b</i>)16,178 |
| Wheat | 2,646,336 | 1,140,653 | 488,500 | 1,220,430 | 2,809,883 | 1,535 | • • | 204 | 8,307,541 |
| grain— Beans— | | | | | | | | | |
| Navy | 280 | | 3,349 | | | 101 | | | 3,730 |
| Soy Peas— | 12,788 | 108 | 33,013 | •• | •• | • • | • • | • • | 45,909 |
| Cow, field and | | 1 010 | 1 504 | 11.502 | | 1 420 | | | 40.000 |
| poona Other(c) | 1,391 1,065 | 1,810 1,224 | 1,584 | 11,593 4,077 | 575 118,607 | 1,439 170 | | • • | 18,392 125,143 |
| Crops for hay— | | | 695 | 5,805 | | | | | |
| Barley Oats | 1,591 19,305 | 1,302 38,250 | 3,353 | 34,951 | 3,085 52,880 | 191 1,381 | | · . | 12,669 150,128 |
| Rye Wheat | 255 15,338 | 1,002 5,440 | 1,005 | 9,832 | 77 15,477 | 257 94 | • • | | 1,820 47,186 |
| Other | 158 | 121 | 2,645 | 7,032 | 1,251 | 3 | 34 | | 4,212 |
| Crops for green feed or silage— | | | | | | | | | |
| Rye | 2,131 | 350 | (a) | 1,641 | 1,175 | 451 | | | (b)5,748 |
| Wheat | 25,282 24,000 | 4,003 882 | 15,874 50,885 | 1,223 | 5,417 1,271 | 264 | | | 52,063 77,038 |
| Barley | 29,118 | 3,432 | 19,331 | 10,461 | 12,795 | 708 | | • • | 75,845 |
| Vegetables for animal feed . | 5,158 | 5,311 | 1,639 | 651 | 245 | 7,240 | 87 | | 20,331 |
| Grain sorghum . Maize | 3,810 | 477 485 | 25,665 2,490 | 14 | 158 133 | iġ | 51 | | 26,351 6,951 |
| Oats | 208,819 | 21,446 | 209,719 | 44,998 | 51,468 | 12,217 | | 200 | 548,867 |
| Other Sugar cane— | 5,510 | 7,387 | 15,318 | 441 | 2,819 | 5,973 | 2,798 | • • | 40,246 |
| Cut for crushing . | 9,911 | | 243,231 | | | | | | 253,142 |
| Cut for plants . Other land under | 275 | •• | 5,959 | •• | • • | • • | • • | • • | 6,234 |
| sugar cane Tobacco | 8,252 898 | 3,926 | 29,223 4,424 | | | | | | 37,475 9,248 |
| Cotton | 27,511 | 3,920 | 7,386 | | 3,642 | • | • • • | | 38,539 |
| Peanuts Linseed | 204 18,237 | 4,924 | 23,742 8,543 | 3,165 | 185 693 | • • | (a) | | (b)24,131 35,562 |
| Rapeseed | 4,733 | 3,707 | | 1,238 | 2,170 | • • • | | | 11,848 |
| Safflower Sunflower | 5,487 94,085 | 2,813 8,013 | 27,575 104,923 | 363 2,417 | (a) 158 | 36 | | | 36,238 209,632 |
| Fruit | | | | | | | | | |
| Tree Small and berry . | 25,741 60 | 21,508 254 | 11,584 94 | 16,539 81 | 7,591 16 | 4,169 579 | 17 | 18 | 87,167 1,084 |
| Other | 5,796 | 22 | 8,471 | 30,366 | 215 | ••• | 5 | | 14,509 |
| Grapevines Vegetables | 14,463 27,745 | 22,348 30,190 | 1,537 24,942 | 10,177 | 2,602 5,797 | 11,52i | 129 | 53 | 71,316 110,554 |
| All other crops— Nurseries | 1,036 | 1,044 | 477 | 193 | 170 | 65 | 4 | 3 | 2,992 |
| Broom millet. | 568 | 26 | (a) | | | | | | (b)594 |
| Hops Other crops n.e.i | 1,128 | 478 943 | 5,623 | 403 | (a) 449 | 662 1,490 | 651 | | (b)1,140 10,687 |
| Total area of crops | -, | | 0,020 | | | ,,,,,, | | • • • | 10,007 |
| (excluding pastures) | 4,119,483 | 1,778,949 | 1,950,053 | 2,257,168 | 3,754,506 | 68,659 | 8,023 | 616 | 13,937,457 |
| Area of above double-cropped . | 29,682 | 6,553 | 52,350 | 221 | 573 | 1,883 | 5 | 01 | 91,277 |
| | 27,002 | 0,555 | 32,330 | | 3,3 | 1,005 | , | 10 | 71.277 |
| Total area used for crops (excluding | | | | | | | | | |
| pastures) | 4 089,801 | 1,772,396 | 1,897,703 | 2,256,947 | 3,753,933 | 66,776 | 8,018 | 606 | 13,846,180 |
| Pastures and grasses | | | | | | | | | |
| cut for hay Pastures and grasses | 221,850 | 459,494 | 40,999 | 138,995 | 90,853 | 78,557 | 2,140 | 478 | 1,033,366 |
| harvested for seed. | 26,045 | 8,324 | 10,112 | 30,611 | 22,878 | 2,219 | 273 | | 100,462 |
| Total area used for | | | | | | | | | |
| crops (including | 4 227 /0/ | 2 240 21 4 | 1 040 014 | 2 426 552 | 2 067 664 | 147 | 10 431 | 1 00 1 | 14000 000 |
| pastures) | 4,337,696 | 2,240,214 | 1,948,814 | 2,426,553 | 3,867,664 | 147,552 | 10,431 | 1,084 | 14,980,008 |

⁽a) Not available for publication; included in "Other crops n.e.i.". (b) Incomplete; see footnotes to individual States. (c) Mainly lupins for processing.

RURAL INDUSTRY

AREA OF CROPS: AUSTRALIA (hectares)

| | | tares) | | | |
|--|-----------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| Crop | 1970–71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
| Cereals for grain— | ··········· | | | | |
| Barley— | | | | | |
| 2 Row | 1,531,534 | 2,037,655 | 1,784,802 | 1,597,968 | 1,614,801 |
| 6 Row | 468,523 | 497,765 | 355,100 | 296,506 | 210,749 |
| Total | 2,000,058 | 2,535,421 | 2,139,902 | 1,894,474 | 1,825,550 |
| Canary seed | 8,869 | 6,260 | 6,909 | 9,954 | 6,771 |
| Grain sorghum | 552,106 | 638,392 | 697,162 | 539,671 | 511,089 |
| Maize | 85,635 | 78,193 | 59,259 | 45,606 | 51,395 |
| Oats | 1,553,169 | 1,240,586 | 995,053 | 1,182,180 | 896,533 |
| Panicum and millet | 49,158 | 23,952 | 27,159 | 39,642 | 22,105 |
| | | 40,403 | 45,150 | 67,502 | 75,562 |
| Rice | 40,721 | | | | 16,178 |
| Rye | 40,707 | 41,458 | 28,198 | 28,062 | |
| Wheat | 6,478,418 | 7,137,852 | 7,604,082 | 8,948,257 | 8,307,541 |
| Legumes mainly for grain— | | | | | |
| Beans— | | | | | |
| Navy | 4,624 | 8,412 | 9,516 | 4,523 | 3,730 |
| Soy | 7,326 | 18,019 | 27,963 | 40,849 | 45,909 |
| Peas— | | | | | |
| Cow, field and poona | 32,211 | 36,187 | 22,645 | 18,558 | 18,392 |
| Other | 270 | (a)34,447 | (a)46,519 | (a)67,080 | (a)125,143 |
| Crops for hay— | | .,, | ` , , | . , , | ., |
| Barley | 23,375 | 19,680 | 32,713 | 21,296 | 12,669 |
| Oats | 236,533 | 234,486 | 291,483 | 227,955 | 150,128 |
| Rye | 2,887 | 1,780 | 1,526 | 2,689 | 1,820 |
| Wheat | 75,782 | 80,501 | 121,365 | 66,143 | 47,186 |
| 0.1 | 10,239 | 4,610 | 6,173 | 6,878 | 4,212 |
| Other | 10,239 | 4,610 | 0,173 | 0,070 | 7,212 |
| Crops for green feed or silage— | 10.430 | 0.004 | 0.630 | 9.050 | 5,748 |
| Rye | 10,429 | 8,984 | 8,620 | 8,959 | |
| Wheat | 77,327 | 34,829 | 48,262 | 50,701 | 52,063 |
| Forage sorghum | ÷ 168,3 5 9 { | 110,537 | 168,274 | 114,840 | 77,038 |
| Grain sorghum | , | 20,5.0 | 24,398 | 33,225 | 26,351 |
| Vegetables for animal feed | 14,267 | 47,184 | 52,114 | 32,208 | 20,331 |
| Barley | 116,360 | 94,404 | 107,766 | 110,032 | 75,845 |
| Maize | 5,379 | 7,396 | 7,677 | 7,274 | 6,951 |
| Oats | 884,511 | 608,737 | 724,242 | 689,774 | 548,867 |
| Other | 119,187 | 57,515 | 62,335 | 50,301 | 40,246 |
| Sugar cane— | , | , | • | • | |
| Cut for crushing | 220,521 | 233,737 | 241,699 | 225,854 | 253,142 |
| Cut for plants | 5,232 | 5,191 | 5,045 | 5,028 | 6,234 |
| Other land under sugar cane . | 50,347 | 38,787 | 36,520 | 50,310 | 37,475 |
| Tobacco | 10,900 | 10,045 | 9,598 | 9,278 | 9,248 |
| - | 34,534 | 39,649 | 43,616 | 41,716 | 38,539 |
| | | | | | 24,131 |
| Peanuts | 38,584 | 33,752 | 29,136 | 25,932 17,777 | 35,562 |
| Linseed | 41,626 | 19,923 | 16,300 | 17,777 | |
| Rapeseed | 42,887 | 86,950 | 77,142 | 16,843 | 11,848 |
| Safflower | 27,674 | 33,809 | 10,624 | 12,311 | 36,238 |
| Sunflower | 75,716 | 295,011 | 241,840 | 150,578 | 209,632 |
| Fruit— | | | | | A= 4.5 |
| Tree | 104,053 | 104,335 | 97,632 | 91,856 | 87,167 |
| Small and berry | 1,224 | 1,261 | 1,215 | 1,158 | 1,084 |
| Other | 17,742 | 17,492 | 16,653 | 15,789 | 14,509 |
| Grapevines | 63,782 | 66,817 | 68,547 | 69,988 | 71,316 |
| Vegetables | 107,611 | 116,899 | 110,947 | 105,475 | 110,554 |
| All other crops— | , | , , | , | • | - |
| Nurseries | 2,366 | 2,499 | 2,599 | 2,913 | 2,992 |
| Broom millet | 558 | 516 | 395 | 403 | 594 |
| Hops | 893 | 935 | 1,069 | 1,211 | 1,140 |
| Other crops n.e.i. | 8,578 | 8,598 | 8,627 | 8,003 | 106 |
| • | • | • | | | |
| Total area of crops (excluding pastures) | 13,452,735 | 14,294,776 | 14,385,669 | 15,161,056 | 13,937,457 |
| Area of above double cropped . | 55,340 | 54,611 | 130,992 | 102,031 | 91,277 |
| Total area used for crops (excluding | | | | | |
| pastures) | 13,397,395 | 14,240,165 | 14,254,677 | 15,059,025 | 13,846,180 |
| | 1,011,437 | 1,147,619 | 924,414 | 1,311,858 | 1,033,366 |
| | 1,011,43/ | 1,177,019 | 747,717 | 1,011,000 | 1,000,000 |
| Pastures and grasses cut for hay . | | | | | |
| Pastures and grasses harvested for | 120.020 | 107.440 | 0.5 000 | 117 025 | 100 463 |
| rastures and grasses cut for nay Pastures and grasses harvested for seed Total area for crops (including pastures) | 129,028 14,537,860 | 107,440 15,495,224 | 85,898 15,264,989 | 117,035 16,487,918 | 100,462 14,980,008 |

⁽a) Mainly lupins for processing; not collected separately prior to 1971-72.

749 CROPS

Production and yield per hectare of crops

PRODUCTION OF CROPS (EXCLUDING PASTURES, FRUIT AND VEGETABLES), 1974-75

| Crop | | | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------------|----------|-------|------|------|----------|---------|---------|--------|---------|---------|---|---|---|-----------|
| Cereals for | grain- | - | | | - | | | | | | | | | |
| Barley- | | | | | | | | | | | | | | |
| 2 row | | | | '00 | 0 tonnes | 297 | 314 | 274 | 1,108 | 252 | 25 | | | 2,272 |
| 6 row | | | | | ,, | 110 | 5 | 23 | 26 | 75 | 2 | | | 241 |
| To | tal | | | | ** | 408 | 319 | 297 | 1,134 | 327 | 27 | | | 2,513 |
| Canary se | ed | | | | ,, | 1 | | 6 | | | | | | 6 |
| Grain sor | ghum | | | | ,, | 257 | | 634 | | 3 | | 7 | | 901 |
| Maize | ٠. | | | | ,, | 60 | 2 | 72 | (a) | (a) | | | | (b)133 |
| Oats . | | | | | ,, | 293 | 186 | 28 | 112 | 250 | 5 | | | 874 |
| Panicum | and mi | illet | _ | | ,, | | 2 | 19 | | | | | • | 22 |
| Rice . | | | - | | ,, | 376 | | 12 | | | | (a) | • | (b)388 |
| Rye . | | - 1 | | | | 1 | i | (a) | 2 | 1 | | | | (b)5 |
| Wheat | • | • | • | | ,, | 3,809 | 2,09 i | 692 | 1,486 | 3,277 | ż | | • • | 11,357 |
| Legumes m | ainÍv fé | or gr | ain— | | ,, | 0,000 | 2,001 | | 1, | -, | _ | • • • | • • | 11,557 |
| Beans- | | · | | | | | | | | | | | | |
| Navy | | | | | tonnes | 167 | | 2,599 | | | 63 | | | 2.829 |
| Soy | • | Ţ. | · | · | | 21,102 | 79 | 52,542 | | | | | | 73,723 |
| Peas— | • | • | • | • | ,, | , | ., | 02,0.2 | • • | • • • | | • • • | •• | . 5, . 25 |
| Cow, fi | | d po | ona | | 19 | 912 | 1,961 | 536 | 13,364 | 398 | 2,959 | | | 20,130 |
| Crops for h | ау— | | | | | | | | | | | | | |
| Barley | | | | | ,, | 3,239 | 3,589 | 1,460 | 16,265 | 8,469 | 946 | | | 33,968 |
| Oats . | | | | | ,, | 50,982 | 136,353 | 10,022 | 117,281 | 160,415 | 5,722 | | 23 | 480,798 |
| Rye . | | | | | ,, | 474 | 3,724 | | 520 | 237 | 1,242 | | | 6,197 |
| Wheat | | | | | ,, | 42,713 | 15,220 | 2,514 | 33,790 | 40,948 | 372 | | | 135,557 |
| Other . | | | | | ,, | 315 | 457 | 7,834 | | 3,485 | 6 | 60 | | 12,157 |
| To | tal | | | | " | 97,723 | 159,343 | 21,830 | 167,856 | 213,554 | 8,288 | 60 | 23 | 668,677 |
| Sugar cane | cut for | crus | hing | 1000 |) tonnes | 997 | | 19,421 | | | | | | 20,418 |
| Tobacco | | | | | '000 kg | 1.369 | 6.086 | 8,007 | | | | | • • • | 15,462 |
| Cotton . | • | | | | ,, | 78,812 | -, | 17,909 | | 6,603 | | | • • • | 103,324 |
| Peanuts . | | | • | • | tonnes | 494 | | 31,323 | | 152 | | | • • • | 31,969 |
| Linseed . | • | • | • | • | | 14.997 | 3.812 | 10,720 | 3.162 | 358 | | | | 33,049 |
| Rapeseed | • | • | • | • | ** | 3,696 | 2,288 | 10,.20 | 1,781 | 768 | | | | 8,533 |
| Safflower | • | • | • | • | ,, | 2.005 | 1.269 | 26,949 | 279 | (a) | • | | • • • | 30,502 |
| Sunflower | • | • | • | • | ,, | 37,549 | 4.817 | 68,402 | 2,576 | ("6 | 22 | • | | 113,375 |
| Grapes . | • | • | • | • | " | 132,826 | 287,508 | 5.811 | 290,561 | 11.134 | | | • • • | 727,840 |
| Broom mille | et(c) | • | • | • | ,, | 335 | 16 | (a) | • | 11,134 | • • | • • | • • • | (b)351 |
| Hops . | · (() | • | • | • | '000 kg | | 831 | | • • • | (a) | 1,439 | • • | • • | (b)2,270 |
| riops . | | • | • | • | OOO Kg | | 631 | • • | | (4) | 1,437 | • • | | (0)2,210 |

⁽a) Not available for publication. (b) Incomplete; see footnotes to individual States. (c) Comprises grain and fibre; not shown separately.

PRODUCTION OF CROPS (EXCLUDING PASTURES, FRUIT AND VEGETABLES)

| | | | | | | | • | | _ |
|------------------------|---------|---|---|---------------|-----------|-----------|-----------|-----------|--------------|
| Crop | | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| Cereals for grain— | | | | | | | | | |
| Barley— | | | | | | | | | |
| 2 row . | | | | . '000 tonnes | 1,783 | 2,571 | 1,441 | 2,076 | 2,272 |
| 6 row . | | | | . ,, | 567 | 495 | 286 | 322 | 241 |
| Total . | | | | . ,, | 2,351 | 3,065 | 1,727 | 2,397 | 2,513 |
| Canary seed . | | _ | | . ,, | 5 | 4 | 4 | 7 | 6 |
| Grain sorghum | | | | . ,, | 1,298 | 1.228 | 1,018 | 1,061 | 901 |
| Maize | | • | • | | 212 | 214 | 1,139 | 106 | 133 |
| Oats | | | • | . ,, | 1.613 | 1.275 | 736 | 1,107 | 874 |
| Panicum and millet | • | • | • | . " | 57 | 26 | 26 | 35 | 22 |
| Rice | | • | • | • ,, | 300 | 248 | 309 | 409 | 388 |
| Rye | | • | • | . " | 22 | 22 | | íš | 5 |
| Wheat | | • | • | . " | 7,890 | 8,606 | 6,590 | 11,987 | 11,357 |
| Legumes mainly for g | rain_ | | • | . " | 1,070 | 0,000 | 0,330 | 11,707 | 11,557 |
| Beans— | ,14111— | _ | | | | | | | |
| Navy | | | | . tonnes | 1,121 | 6.504 | 1.799 | 2,539 | 2,829 |
| Soy | | • | • | | 9,202 | 33.629 | 37,937 | 62,541 | 73,723 |
| Peas— | | • | • | . " | .7,202 | 33,029 | 31,731 | 02,541 | 15,125 |
| Cow, field and pe | | | | | 33,130 | 38,979 | 15,315 | 18,425 | 20,130 |
| Crops for hay— | oona . | | | . ,, | 33,130 | 30,919 | 15,515 | 10,423 | 20,130 |
| Barley | | | | | 68,607 | 62,926 | 68,665 | 55,360 | 33,968 |
| Oats | | | • | • ,, | 925,455 | 893,317 | | 760.062 | 480,798 |
| | ٠ . | | • | • 11 | 13,573 | | 831,416 | | 6,197 |
| Rye | | | • | • ,, | 260,147 | 7,817 | 4,520 | 10,474 | 135,557 |
| Wheat | ٠. | | • | • " | 200,147 | 265,408 | 300,599 | 191,231 | |
| Other . | ٠. | | • | • ,, | 6,054 | 17,075 | 18,869 | 17,138 | 12,157 |
| Total . | | | | . ,, | 1,273,836 | 1,246,543 | 1,224,069 | 1,034,265 | 668,677 |
| Sugar cane cut for cru | ushing | | | . '000 tonnes | 17,645 | 19.391 | 18,928 | 19,278 | 20,418 |
| Tobacco | | | | '000 kg | 17,128 | 16,015 | 15,421 | 14,886 | 15,462 |
| Cotton | | | • | . 11 | 56,751 | 131,971 | 96,641 | 86,393 | 103,324 |
| Peanuts | | | • | tonnes | 31,123 | 46,060 | 38,496 | 29,208 | 31,969 |
| Linseed | : : | | • | . , | 30,805 | 10,229 | 10,688 | 14.324 | 33,049 |
| Rapeseed . | • | | • | | 33,619 | 54,614 | 25,037 | 10,598 | 8,533 |
| Safflower | • | • | • | • " | 10.456 | 15.398 | 4,173 | 6.860 | 30,542 |
| Sunflower. | : : | | • | . " | 58,049 | 147,531 | 102,069 | 84,324 | 113,375 |
| Grapes | | | • | . " | 547,399 | 831.879 | 598.365 | 552,383 | 727,840 |
| Broom millet— | | | • | . " | 547,577 | 001,079 | 370,303 | 332,303 | . 2.,040 |
| Grain | | | | | 113 | 76 | 941 | | |
| Fibre | | | • | . " | 327 | 367 | 319 | 296 | 351 |
| Linna | | | • | '000 kg | 1,706 | 1,847 | | 2,864 | 2,270 |
| riops | | | | . OUU NE | 1,700 | 1,04/ | 2,113 | 2,004 | 2,270 |

RURAL INDUSTRY

YIELD PER HECTARE OF CROPS (EXCLUDING PASTURES, FRUIT AND VEGETABLES), AUSTRALIA

| Crop | | | | | | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|-----------------|---------|--------|-------|---|---|---------|---------|---------|---------|---------|---------|
| Cereals for | | | | | | | | | | | |
| Barley— | | | | | | | | | | | |
| 2 row | | | | | | tonnes | 1.164 | 1.262 | 0.807 | 1.299 | 1.407 |
| 6 row | • | • | • | • | • | ** | 1.211 | 0.994 | 0.806 | 1.085 | 1.14 |
| Tota | al. | | | • | | ,, | 1.175 | 1.209 | 0.807 | 1.265 | 1.37 |
| Canary | seed | | | | | ,, | 0.578 | 0.635 | 0.554 | 0.724 | 0.923 |
| Grain so | rghun | ı . | | | | " | 2.350 | 1.924 | 1.460 | 1.965 | 1.762 |
| Maize | ٠. | | | | | ,, | 2.471 | 2.736 | 2.343 | 2.320 | 2.594 |
| Oats. | | | | | | ,, | 1.038 | 1.028 | 0.740 | 0.937 | 0.97 |
| Panicum | and r | nillet | | | | ,, | 1.165 | 1.080 | 0.974 | 0.880 | 0.976 |
| Rice | | | | | | ,, | 7.363 | 6.134 | 6.835 | 6.056 | 5.14 |
| Rve . | | | | | | ,, | 0.544 | 0.529 | 0.305 | 0.268 | 0.304 |
| Wheat | | | | | | ,, | 1.218 | 1.206 | 0.846 | 1.340 | 1.36 |
| Legumes n | nainly | for g | rain | | | ,, | | | | | |
| Beans- | • | | | | | | | | | | |
| Navy | | | | | | ,, | 0.242 | 0.773 | 0.189 | 0.561 | 0.75 |
| Sov | | | | • | • | ,, | 1.256 | 1.866 | 1.357 | 1.531 | 1.60 |
| Peas- | • | • | • | • | • | ,, | | | | | |
| Cow, | field a | nd po | ona | | | ,, | 1.085 | 1.077 | 0.676 | 0.993 | 1.09 |
| Crops for I | | p | | • | • | ,, | | | | | |
| Barley | | | | | _ | ,, | 2.935 | 3.197 | 2.099 | 2.599 | 2.68 |
| Oats. | - | | | | | ,, | 3.913 | 3.810 | 2.852 | 3.334 | 3.20 |
| Rve . | i | | · | · | | ••• | 4.701 | 4.392 | 2.962 | 3.895 | 3.40 |
| Wheat | | | · | | - | ,, | 3.443 | 3.297 | 2.477 | 2.891 | 2.87 |
| Other | - | Ĭ | | | - | ,, | 3.458 | 3.704 | 3.057 | 2.490 | 2.886 |
| Sugar cane | cut fo | or cru | shing | | - | ,, | 80.014 | 82.959 | 78.314 | 85.356 | 80.65 |
| Tobacco | | | | · | | '000 kg | 1.571 | 1.594 | 1.607 | 1.604 | 1.67 |
| Cotton | · | • | - | | | ,, | 1.643 | 3.328 | 2.216 | 2.071 | 2.68 |
| Peanuts | · | | · | · | • | tonnes | 0.807 | 1.365 | 1.321 | 1.126 | 1.32 |
| Linseed | • | • | | · | · | | 0.740 | 0.513 | 0.656 | 0.806 | 0.92 |
| Rapeseed | • | • | • | • | • | ,, | 0.784 | 0.628 | 0.325 | 0.629 | 0.72 |
| Safflower | • | • | • | • | • | ,, | 0.338 | 0.455 | 0.393 | 0.551 | 0.839 |
| Sunflower | • | • | • | : | : | ** | 0.780 | 0.501 | 0.422 | 0.560 | 0.54 |
| Grapes (a) | • | • | • | • | • | ,, | 10.266 | 14.721 | 10.014 | 7.815 | 10.209 |
| Broom mil | let— | • | • | • | • | " | 10.200 | 17./21 | 10.014 | 7.015 | 10.20 |
| Grain | | | | | | | 0.210 | 0.147 | 0.2387 | | |
| | • | • | • | • | • | ,, | 0.586 | 0.711 | 0.808 | 0.761 | 0.59 |
| Fibre | | | | | | | | | | | |
| Fibre Hops . | : | • | • | • | • | '000 kg | 1.910 | 1.975 | 1.977 | 2.365 | 1.991 |

⁽a) Yield per bearing hectare only.

CROPS 751

Value of crop production

Further reference to the value of crop production and other industries in Australia as well as a brief explanation of the terms used may be found in Chapter 31, Miscellaneous.

GROSS VALUE OF CROPS, 1974-75 (\$'000)

| Crop | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|-----------------|---------|-----------------|------------|--------------|--------------|-------|---|----------------------|
| Cereals for grain— | | | | | | | | | |
| Barley | 35,701 | 32,674 | 32,860 | 119,305 | 33,822 | 2,502 | | | 256,864 |
| Canary seed | 176 | 4 | 1,319 | 39 | | -, | | | 1,538 |
| Grain sorghum | 24,194 | 17 | 51,843 | | 176 | | (a) | | (c)76,230 |
| Maize | 5.227 | 171 | 6,254 | | (a) | | ` | | (c)11,652 |
| Oats | 18,355 | 11,991 | 2,960 | 7,832 | 18,045 | 426 | | 10 | 59,619 |
| Panicum and millet . | 89 | | 2,003 | | | • • | | | 2,092 |
| Rice | 34,512 | :: | 1,379 | .:: | (a) | • • | (a) | | (c)35,891 |
| Rye | 101 | 69 | 70 (b) | 116 | 83 | 243 | • • | 55 | (c)369 |
| Wheat , | 420,159 | 231,457 | 79,276 | 163,986 | 361,294 | 242 | •• | 27 | 1,256,441 |
| Total cereals for grain | 538,515 | 276,383 | 177,894 | 291,278 | 413,421 | 3,170 | 553 | 37 | 1,701,251 |
| Legumes mainly for grain. Crops for hay— | 4,339 | 422 | 10,365 | 2,269 | 74 | 525 | •• | •• | 17,994 |
| Oats | 1,407 | 3,777 | 200 | 4,153 | 4,703 | 366 | | 1 | 14,607 |
| Wheat | 1,257 | 282 | 50 | 1,197 | 1,347 | 24 | | | 4,157 |
| Other | 113 | 121 | 352 | 594 | 300 | 139 | 2 | •• | 1,621 |
| Total crops for hay . | 2,777 | 4,180 | 603 | 5,944 | 6,350 | 530 | 2 | 1 | 20,387 |
| Sugar cane— | | | | | | | | | .00.00 |
| Cut for crushing | 17,507 | | 473,189 | | ٠. | | | | 490,696 |
| Cut for plants | 4 2 4 6 | 10.110 | 7,082 | | • • | • • | • • | • • | 7,082 |
| Tobacco (dried leaf) | 4,349 21,028 | 18,119 | 26,544 6,490 | • • | 1,752 | • • • | • • | • • • | 49,012 29,270 |
| Cotton Peanuts | 203 | | 11,747 | • • • | 56 | • • • | •• | • • • | 12,006 |
| Linseed | 3,347 | 78 i | 2,735 | 533 | 57 | | • • • | • | 7,453 |
| Rapeseed | 848 | 515 | 4,,,,, | 405 | 125 | | | | 1.893 |
| Safflower | 419 | 292 | 6,755 | 45 | (b) | | | | (c)7,511 |
| Sunflower | 8,593 | 1,055 | 13,778 | 578 | (b) | · ; | | | (c)24,007 |
| Fruit— | • | | | | | | | | |
| Tree | 65,547 | 55,711 | 23,071 | 38,751 | 17,112 | 14,910 | 27 | 11 | 215,140 |
| Small and berry | 742 | 1,050 | 1,156 | 1,467 | 293 | 1,471 | | | 6,179 |
| Other | 20,920 | 50 | 22,508 2,989 | | 1,768 | | 39 | | 45,285 |
| Grapevines | 21,375 | 37,453 | | 37,502 | 2,072 | | . : : | | 101,391 |
| Vegetables | 58,558 | 65,507 | 60,852 | 36,576 | 19,973 | 15,071 | 147 | 186 | 256,870 |
| All other crops— | 12.260 | 4 202 | £ 021 | 5 176 | 2.076 | 004 | 24 | 16 | 22.477 |
| Nurseries | 13,369 | 4,202 | 5,831 | 5,176 | 3,975 | 884 | 24 | 16 | 33,477 (c)2,978 |
| Hops | 1 573 | 1,740 | 3,386 | 122 | (b) 6 520 | 1,238 939 | • • | • • | 13,989 |
| Other crops n.e.i | 1,572 | 1,431 | 3,360 | 122 | 6,539 | 939 | •• | •• | 13,969 |
| Total crops (excl. pastures and grasses) | 784,008 | 468,891 | 856,975 | 420,665 | 473,568 | 38,741 | 793 | 252 | 3,043,893 |
| | , , , , , , | , | •••• | , | , | ••• | | | •,•.•,• |
| Pastures and grasses— Cut for hay— | | | | | | | | | |
| Lucerne | 22,545 | 7,825 | 9,019 | 2,172 | 400 | 903 | 10 | 63 | 42,937 |
| Other | 12,741 | 55,019 | 1,575 | 6,842 | 7,394 | 9,567 | 131 | 24 | 93,293 |
| | · | • | 10,594 | , | • | - | 140 | 2. 87 | 136,229 |
| Total cut for huy . | 35,286 | 62,844 | 10,394 | 9,014 | 7,794 | 10,470 | 140 | 07 | 130,229 |
| Harvested for seed- | 0.7.4 | | • | | | | | | 2.521 |
| Lucerne | 832 | 62 | 2 | 1,623 | 54 | 8 | • • • | • • • | 2,581 |
| Clovers- | 1,002 | 203 | (b) | 602 | 1 621 | (4) | | | (~)2 220 |
| Subterranean Other | 32 | 203 | (b) | 603 841 | 1,531 213 | (d) (e)33 | • • | • • • | (c)3,339 (c)1,141 |
| Other n.e.i. | 1,480 | 1,350 | 605 | 2,025 | 497 | 228 | 27 | :: | 6,212 |
| Total harvested for | | | | | | | | | |
| seed | 3,344 | 1,637 | 608 | 5,092 | 2,294 | 269 | 27 | | 13,271 |
| ~ | | | | | | | | | |
| Total pastures and | 20.420 | | 11 202 | 14 10- | 10.000 | 10 710 | 160 | 07 | 140 501 |
| grasses | 38,630 | 64,481 | 11,202 | 14,106 | 10,088 | 10,739 | 168 | 87 | 149,501 |
| Total crops | -822,638 | 533,372 | 868,177 | 434,771 | 483,656 | 49,480 | 960 | 310 | 3,193,393 |
| Total Clops | 322,036 | 555,512 | 000,177 | 734,771 | -103,030 | 77,400 | 700 | 557 | 0,170,070 |
| | | | | | | | | | |

⁽a) Not available for publication; included in "Total cereals for grain". in "other crops n.e.i." (c) Incomplete; see footnotes to individual States. cludes "Subterranean Clovers".

⁽b) Not available for publication; included (d) Included in "Other Clovers". (c) In-

RURAL INDUSTRY

GROSS VALUE OF CROPS, AUSTRALIA (\$'000)

| Crop | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974–75 |
|--|---------|------|----|------------------|------------------|------------------|-------------------|----------------|
| Cereals for grain— | | | - | | | | | |
| Barley | | | | 110,789 | 124,177 | 90,876 | 190,482 | 256,864 |
| Canary seed . | | | | 481 | 398 | 570 | 1,260 | 1,538 |
| Grain sorghum . | | | | 57,382 | 51,092 | 58,957 | 80,398 | 76,230 |
| Maize | | | | 10,393 | 10,375 | 8,684 | 8,956 | 11,652 |
| Oats | | | | 54,283 | 37,391 | 31,540 | 66,801 | 59,619 |
| Panicum and millet | | | | 3,107 | 1,549 | 2.290 | 3,802 | 2,092 |
| Rice | | | | 13,720 | 11,942 | 24,995 | 50,450 | 35,891 |
| Rye | | | | 1,048 | 817 | 481 | 510 | 369 |
| Wheat | • | • | • | 403,550 | 462,555 | 356,572 | 1,311,935 | 1,256,441 |
| Total cereals | for gra | ain | | 654,752 | 700,297 | 574,965 | 1,715,048 | 1,701,251 |
| Legumes mainly for g Crops for hay— | rain | | • | 4,550 | 9,548 | 8,710 | 18,901 | 17,994 |
| Oats | | | | 17,390 | 15,065 | 23,849 | 22,083 | 14,607 |
| Wheat | | | | 4,862 | 4,708 | 8,510 | 5,496 | 4,157 |
| Other | | • | | 2,179 | 1,566 | 2,739 | 2,309 | 1,621 |
| Total crops for | hay | | | 24,431 | 21,339 | 35,100 | 29,885 | 20,387 |
| Sugar cane— | | | | | | | | |
| Cut for crushing. | | | | 173,300 | 207,388 | 230,208 | 218,875 | 490,696 |
| Cut for plants . | | | | 3,248 | 3,429 | 3,966 | 3,453 | 7,082 |
| Tobacco (dried leaf) | | | | 42,528 | 40,995 | 37,896 | 42,396 | 49,012 |
| Cotton | | | | 13,293 | 30,117 | 32,625 | 26,636 | 29,270 |
| Peanuts | | | | 7,998 | 12,234 | 10,539 | 10,885 | 12,006 |
| Linseed | | | | 3,522 | 1,037 | 1,044 | 3,062 | 7,453 |
| Rapeseed | | | | 2,944 | 5,120 | 2,916 | 1,480 | 1,893 |
| Safflower | | | | 984 | 1,440 | 469 | 1,036 | 7,511 |
| Sunflower Fruit— | • | • | ٠ | 7,340 | 16,237 | 15,366 | 19,402 | 24,007 |
| Tree | | | | 163,220 | 149,395 | 176,476 | 178,196 | 215,140 |
| Small and berry . | | | | 4,537 | 4,075 | 5,004 | 4,739 | 6,179 |
| Other | | | | 31,727 | 32,713 | 42,040 | 34,323 | 45,285 |
| Grapevines | | | | 45,815 | 66,306 | 64,871 | 83,205 | 101,391 |
| Vegetables | | | | 167,185 | 158,379 | 181,420 | 239,685 | 256,870 |
| All other crops— | | | | , , , , | , | | • | • |
| Nurseries | | | | 19,828 | 21,702 | 23,184 | 26,740 | 33,477 |
| Hops | | | | 3,133 | 3,621 | 4,263 | 5,174 | 2,978 |
| Other crops, n.e.i. | • | • | • | 2,364 | 5,659 | 3,979 | 4,951 | 13,989 |
| Total crops (exc | luding | - | es | | | | 2 ((0 074 | 2 0 4 2 0 0 2 |
| and grasses) | • | • | ٠ | 1,376,701 | 1,491,032 | 1,455,042 | 2,668,074 | 3,043,893 |
| Pastures and grasses- | - | | | | | | | |
| Cut for hay— | | | | 20.646 | 24.524 | 10.111 | £3.00 <i>(</i> | 42.937 |
| Lucerne Other | | | | 38,645 52,719 | 31,504 54,533 | 42,144 61,328 | 53,086 105,331 | 93,293 |
| Total cut for ha | у. | | | 91,364 | 86,037 | 103,472 | 158,418 | 136,229 |
| Harvested for seed | | | | | | | | |
| Lucerne | | | | 2,037 | 2,043 | 3,084 | 4,115 | 2,581 |
| Clovers— | • | - | · | • | - | · | | |
| Subterranean . | • | • | ٠ | 1,525 | 1,142 | 2,591 | 4,310 | 3,339 |
| Other Other, n.e.i | • | • | : | 524 5,274 | 636 4,194 | 656 4,877 | 1,481 9,698 | 1,141 6,212 |
| Total harvested | for see | rd. | | 9,360 | 8,016 | 11,209 | 19,603 | 13,271 |
| Total pastures a | nd gra | sses | | 100,724 | 94,053 | 114,681 | 178,022 | 149,501 |
| Total crops . | | | | 1,477,425 | 1,585,084 | 1,569,723 | 2,846,096 | 3,193,393 |
| rotal clops . | • | • | • | 1,711,443 | 1,505,004 | 1,007,143 | 4,040,070 | 0,270,070 |

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Values of crop production in the various States and Territories are shown in the following table.

GROSS AND LOCAL VALUES OF CROP PRODUCTION STATES AND TERRITORIES, 1974-75 (\$'000)

| State or Territory | | | - | | Gross production valued at principal markets | Marketing costs | Local value of production |
|--------------------|-------|------|---|---|--|--------------------|---------------------------------|
| New South Wales | | | | • | 822,638 | 114,725 | 707,913 |
| Victoria . | | | | | 533,372 | 71,544 | 461,828 |
| Queensland . | | | | | 868,177 | 64,686 | 803,491 |
| South Australia | | | | | 434,771 | 34,517 | 400,254 |
| Western Australia | | | | | 483,656 | 52,766 | 430,890 |
| Tasmania . | | | | | 49,480 | 9,739 | 39,741 |
| Northern Territory | 4 | | | | 960 | · | 960 |
| Australian Capital | Terri | tory | | | 339 | 49 | 290 |
| Australía | | | | | 3,193,393 | 348,026 | 2,845,367 |

Wheat

Wheat is grown on a large scale in all States except Tasmania, and is the most important crop in Australia in terms of area, production and exports. The present limits of the wheat belt have been established after considerable fluctuation over the last five decades, the latest decade being one of considerable expansion.

Wheat standards

A description of the F.A.Q. (fair average quality) standard of wheat is given in issues of the Year Book up to No. 53, however for the 1974-75 Season the term F.A.Q. was replaced with the description Australian Standard White (A.S.W.). In recent years the practice of segregation has been widely employed to enhance the marketability of Australian wheat. For the Season 1974-75 this resulted in 19 separate grades of wheat being available for export. Each reflects the climatic and growing characteristics of its region of origin and also the particular characteristics of the varieties of wheat cultivated.

For each grade, samples of wheat are obtained each year and each mixed to give the representative sample of that grade. From these samples, which are representative of all the wheat of a particular classification grown in that region, standards for each grade are established and expressed in kilograms per hectolitre. This standard is used as the basis for sales of each grade and varies from year to year and from State to State. Following is a table showing the standard weight of the main wheat varieties over a five year period.

RURAL INDUSTRY

AUSTRALIAN STANDARD WEIGHTS FOR PRINCIPAL GRADES

(Source: Australian Wheat Board) (kilograms per hectolitre)

| Class and grade | | 1970–71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-------------------------------|------|---------|---------|---------|---------|---------|
| Australian Prime Hard— | | | | | | |
| New South Wales | | 78.6 | 79.2 | 78.0 | (a)77.0 | (a)79.8 |
| Queensland | | 79.6 | 78.6 | 80.2 | 76.3 | 82.3 |
| Australian Hard— | | | | | | |
| New South Wales Northern(b) | | 78.6 | 79.6 | 81.5 | 76.4 | 79.5 |
| New South Wales Southern . | - | (c) | 79.2 | 81.5 | 77.6 | 80.0 |
| Queensland | | 78.6 | (c) | 76.2 | (c) | 80.5 |
| South Australia | | 77.7 | 76.8 | 80.7 | 77.Ó | 78.0 |
| Western Australia | | (c) | (c) | 78.6 | 79.0 | 79.1 |
| A.S.W. (F.A.Q.)— | | | | | | |
| New South Wales South Western | | 77.4 | 78.3 | 80.5 | 76.0 | 80.0 |
| Victoria | | 81.1 | 80.5 | 82.3 | 77.6 | 81.2 |
| South Australia | | 78.6 | 78.3 | 81.6 | 76.0 | 77.0 |
| Western Australia | | 79.9 | 79.9 | 78.6 | 77.8 | 79.1 |
| Australian Soft— | | | | | | |
| Victoria | | (c) | 79.9 | 83.5 | (c) | 80.5 |

⁽a) Minimum protein 14%.

The several A.S.W. grades, while possessing some characteristics in common, vary in protein content, milling characteristics, and dough qualities, and all are distinct grades. Similarly, the prime hard, hard and soft grades are individual grades segregated on the basis of specific quality characteristics.

In a normal season Australia produces a full range of wheats for all purposes from high protein hard wheats to low protein soft wheats.

Bulk handling and storage of wheat

Bulk handling is general and has been in operation in all States for a considerable time. The bodies concerned with the administration of bulk handling in the various States are: Grain Elevators Board of New South Wales, Victorian Grain Elevators Board, State Wheat Board (Queensland), South Australian Co-operative Bulk Handling Ltd, Co-operative Bulk Handling Ltd (Western Australia), and the Tasmanian Grain Elevators Board.

WHEAT: TOTAL CAPACITY OF BULK HANDLING FACILITIES(a)

(Source: Bulk handling authorities in the various States, see above)

('000 tonnes)

| | | | | 30 Noven | ıber | | | |
|-------------------|--|---|---|----------|--------|--------|--------|--------|
| State | | | | 1971 | 1972 | 1973 | 1974 | 1975 |
| New South Wales | | | | 5,855 | 5,765 | 5,783 | 5,780 | 5,883 |
| Victoria(b) . | | | | 3,884 | 3,884 | 3,893 | 3,782 | 3,817 |
| Queensland . | | | | 1,129 | 1,189 | 1,265 | 1,249 | 1,268 |
| South Australia | | | | 2,555 | 2,545 | 2,595 | 2,626 | 2,629 |
| Western Australia | | | | 5,851 | 5,898 | 6,556 | 7,059 | 7,137 |
| Tasmania . | | • | | 29 | 29 | 29 | 29 | 31 |
| Australia | | • | • | 19,303 | 19,310 | 20,121 | 20,525 | 20,765 |

⁽a) Includes terminals, sub-terminals, country installations, and temporary storage. (b) Includes storage in southern New South Wales operated by the Victorian Grain Elevators Board.

⁽b) No. 1 grade only.

⁽c) Not determined.

WHEAT 755

Rural holdings growing wheat for grain

Particulars of the number of rural holdings growing wheat for grain during each of the years 1970-71 to 1974-75 are shown in the following table. A farm worked on the share system or as a partnership is included as one holding only.

| State or Territory | | | | 1970-71 | 1971–72 | 1972–73 | 1973-74 | 1974-75 |
|--------------------|-----|--------|---|---------|---------|---------|---------|---------|
| New South Wales | | | | 18,537 | 18,723 | 17,777 | 18,220 | 16,179 |
| Victoria . | | | | 9,669 | 10,273 | 10,002 | 9,524 | 9,157 |
| Oueensland . | | | | 2,816 | 4,503 | 3,439 | 4,258 | 4,487 |
| South Australia | | | | 8,548 | 8,997 | 8,578 | 9,196 | 8,522 |
| Western Australia | | | | 8,677 | 8,559 | 8,334 | 8,211 | 7,899 |
| Tasmania . | | | | 403 | 160 | 147 | 204 | 143 |
| Australian Capital | Ter | ritory | | 9 | 8 | 8 | 7 | 5 |
| Australia | | | • | 48,659 | 51,223 | 48,285 | 49,620 | 46,392 |

(a) Prior to 1973-74, comprised holdings approximately 8 hectares and over.

There is in Australia a widespread combination of wheat growing with other rural activities. This is illustrated, for all States and for Australia, in respect of the 1968-69 season, in a series of statistical bulletins Classification of Rural Holdings by Size and Type of Activity, 1968-69, Nos 1 to 7. These publications also contain details of numbers of rural holdings classified according to area of wheat for grain. Data for 1973-74 may be obtained from the 1974-75 issue of Rural Land Use, Improvements, Agricultural Machinery and Labour (10.59) and from Classification of Rural Holdings by size and type of activity, 1973-74 (10.28).

Varieties of wheat sown

The breeding of wheat suitable to local conditions has long been established in Australia. Farrer (1845–1905) did invaluable work in pioneering this field, and the results of his labour and the continued efforts of those who have followed him have proved of immense benefit to the industry. Their efforts have resulted in the development of disease-resistant varieties, better average yields, and a greater uniformity of sample, with which have accrued certain marketing advantages as well as an improvement in the quality of wheat grown. In 1968 the Australian Wheat Collection was established at Tamworth, New South Wales, to supply basic genetic material to Australian wheat breeders. Some 15,000 varieties are at present held in the collection.

The principal varieties of wheat sown and the percentage of each to the total area sown in the five main wheat-producing States of Australia in 1974-75 were as follows: New South Wales, Eagle (16.9), Timgalen (16.5), Olympic (11.6); Victoria, Halberd (45.2), Olympic (26.3), Summit (10.6); Queensland, Gatcher (31.8), Gamut (20.6), Timgalen (15.2); South Australia, Halberd (62.0), Gabo (5.4), Heron (4.8); and Western Australia, Gamenya (63.1), Falcon (11.3), Insignia (4.8). A detailed table of wheat varieties sown appears in the annual bulletin *The Wheat Industry*, (*Preliminary*) (10.35).

Wheat area and production

Prominent factors in the early development of the wheat industry were the increase in population following the discovery of gold and the redistribution of labour after the surface gold had been won. The economic depression of 1893 interrupted its progress, but its subsequent recovery was assisted by the invention of mechanical appliances, the use of superphosphate as an aid to production, and the introduction of new and more suitable varieties of wheat for Australian conditions. The establishment of closer settlement schemes and the settling of returned soldiers and others on the land were additional factors in its expansion.

RURAL INDUSTRY

| WHEAT FO | DR GE | RAIN: | AREA | AND | PRODUCTION |
|----------|-------|-------|------|-----|------------|
|----------|-------|-------|------|-----|------------|

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Aust |
|----------|---|------|--------|---------|----------|---------|-------|------|--------|--------|
| | | | | AREA (| ('000 HE | CTARES) | | | | |
| 1971–72 | | | 2,426 | 1,040 | 556 | 1,069 | 2,042 | 5 | | 7,138 |
| 1972-73 | | | 2,618 | 1,087 | 471 | 986 | 2,437 | 4 | | 7,604 |
| 1973–74 | | | 2,883 | 1,258 | 395 | 1,432 | 2,978 | 3 | | 8,948 |
| 1974–75 | | | 2,646 | 1,141 | 489 | 1,220 | 2,810 | 2 | | 8,308 |
| 1975–76p | • | • | 2,774 | 1,073 | 576 | 958 | 3,166 | 3 | •• | 8,550 |
| | | |] | PRODUCT | 10N ('00 | 0 TONNI | ES) | | | |
| 1971–72 | | | 2,410 | 1,894 | 722 | 1,407 | 2,165 | 8 | 1 | 8,606 |
| 1972-73 | | | 1,954 | 1,405 | 405 | 815 | 2,003 | 8 | | 6,590 |
| 1973–74 | | | 3,962 | 1,490 | 526 | 1,795 | 4,211 | 4 | | 11,987 |
| 1974–75 | | | 3,809 | 2,091 | 692 | 1,486 | 3,277 | 2 | | 11,357 |
| 1975–76p | | | 4,310 | 1,580 | 830 | 1,139 | 3,963 | 2 | | 11,824 |

A graph showing the area sown to wheat for grain in Australia for the years 1900–01 to 1970–71 appears in Year Book No. 58, Plate 39, page 746, and a map showing the distribution of areas growing wheat for grain throughout Australia in 1962–63 appears on page 1013 of Year Book No. 50. Similar maps showing the distribution of wheat areas in 1924–25, 1938–39, 1947–48, and 1954–55 appeared respectively in Year Books No. 22, page 695, No. 34, page 451, No. 39, pages 977–8, and No. 43, page 833.

The size of the wheat harvest in Australia is determined largely by the nature of the season, resulting in considerable year-to-year fluctuations in production. The main wheat-producing States of Australia are New South Wales, Western Australia and Victoria. Tasmania imports wheat from the mainland to satisfy its needs, though it exports flour made from local wheat which is particularly suitable for biscuits. The production of wheat from 1940–41 is shown in Plate 47, below.

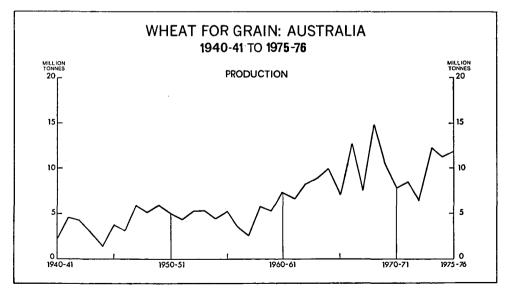


PLATE 47

WHEAT 757

Price of wheat

The Wheat Board's monthly basic export selling prices for A.S.W. bulk wheat, f.o.b. basis, are shown below.

MONTHLY EXPORT WHEAT PRICES(a)

(\$ per tonne)

| Month | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-----------|------|------|--|---------|---------|---------|---------|---------|
| July . | | | | 46.99 | 52.50 | 49.05 | 92.46 | 118.45 |
| August . | | | | 47.40 | 51.53 | 51.17 | 131.91 | 117.73 |
| September | | | | 49.19 | 49.88 | 61.18 | 138.98 | 120.10 |
| October | | | | 50.94 | 48.92 | 71.51 | 134.67 | 150.56 |
| November | | | | 51.99 | 48.55 | 73.99 | 134.67 | 156.00 |
| December | | | | 52.27 | 48.13 | 83.09 | 134.94 | 149.35 |
| January | | | | 53.19 | 47.95 | 82.44 | 141.92 | 131.08 |
| February | | | | 52.87 | 47.95 | 72.71 | 148.31 | 116.41 |
| March . | | | | 52.87 | 47.95 | 70.18 | 150.74 | 107.80 |
| April . | | | | 52.68 | 48.73 | 70.23 | 149.27 | 103.48 |
| May . | | | | 52.50 | 48.96 | 73.90 | 123.78 | 95.52 |
| June . | - | | | 52.31 | 48.69 | 83.13 | 110.23 | 92.83 |

⁽a) Australian Wheat Board average basis f.o.b. price quoted for A.S.W. bulk wheat. Much of the wheat exported is sold under contract for delivery over lengthy periods, and therefore, the prices shown do not necessarily reflect the prices received for all wheat shipped during the months shown.

Production and disposal of wheat in Australia

In the following tables details are given of Australian Wheat Board transactions, production and disposal of wheat during each of the years ended 30 November 1971 to 1974, and preliminary estimates for 1974-75.

RECEIVALS OF WHEAT BY THE AUSTRALIAN WHEAT BOARD ('000 tonnes)

| | | | | | 1970-71 | 1971-72 | 1972–73 | 1973-74 | 1974-75 | |
|-----------------|--|--|--|---|---------|---------|-------------------|--------------------------------|---|--|
| State of origin | | | | | | | Pool | Pool | Poo | |
| | | | | | 2,646 | 2,097 | 1,508 | 3,683 | 3,625 | |
| | | | | | | 1,665 | | 1,379 | 1,985 | |
| | | | | | 90 | 666 | 325 | 474 | 658 | |
| | | | | | 681 | 1,306 | 711 | 1.672 | 1,377 | |
| | | | | | | . , | 1.775 | - , - | 3,059 | |
| | | | | • | 3 | 5 | 4 | 2 | 1 | |
| | | | | | 6,936 | 7,666 | 5,440 | 11,199 | 10,704 | |
| | | | | | | Pool | Pool Pool | Pool Pool Pool | Pool Pool Pool Pool | |

Stocks of wheat (including flour in terms of wheat) held by the Australian Wheat Board are shown in the following table. These data relate to stocks held at mills, sidings, ports, and depots as recorded by the Australian Wheat Board.

STOCKS OF WHEAT, AND FLOUR AS WHEAT

(Source: Australian Wheat Board)

('000 tonnes)

| | | | | 30 November | | | | | | | |
|-------------------|--|---|------|-------------|---------|-------|---------|---------|--|--|--|
| State | | | | 1971 | 1972 | 1973 | 1974 | 1975 | | | |
| New South Wales | | | | 1,504.7 | 489.2 | 175.5 | 775.9 | 621.1 | | | |
| Victoria . | | | | 655.1 | 399.3 | 130.3 | 340.2 | 486.6 | | | |
| Queensland . | | | | 2.5 | 25.7 | 19.7 | 22.3 | 18.3 | | | |
| South Australia | | | | 430.0 | 278.9 | 42.7 | 125.7 | 168.5 | | | |
| Western Australia | | | | 798.6 | 244.7 | 95.9 | 612.5 | 354.8 | | | |
| Tasmania . | | • | | 13.4 | 12.9 | 13.7 | 5.4 | 8.0 | | | |
| Total . | | | | 3,404.3 | 1,450.7 | 477.7 | 1,881.9 | 1,657.5 | | | |

Particulars of the production and disposal of wheat during the years ended 30 November 1971 to 1975 are shown in the following table.

PRODUCTION, DISPOSAL AND STOCKS OF WHEAT: AUSTRALIA ('000 tonnes)

| | Year end | led 30 Novem | ber | | |
|--|----------|--------------|-------------|--------|--------|
| | 1971 | 1972 | 1973 | 1974 | 1975 |
| Opening stocks (including flour as wheat)(a)(b) | 7,222 | 3,404 | 1,451 | 478 | 1,882 |
| Production | 7,890 | 8,606 | 6,590 | 11,987 | 11,357 |
| Total available supplies | 15,112 | 12,010 | 8,041 | 12,465 | 13,239 |
| Exports— | | | | | |
| Wheat(b) \cdot \cdot \cdot \cdot \cdot \cdot | 8,595 | 7,426 | 3,855 | 7,124 | 8,254 |
| Flour and wheat products (b) , (c) | 454 | 334 | 282 | 294 | 296 |
| Local consumption— | | | | | |
| Flour(b)(c) | 1,246 | 1,275 | 1,272 | 1,362 | 1,334 |
| Breakfast foods and other products $(b)(c)$. | 39 | 38 | 36 | 46 | 55 |
| Stock feed wheat sales(b) | 395 | 534 | 935 | 911 | 1,007 |
| Seed | 444 | 544 | 602 | 506 | 529 |
| Balance (including retained on farm for | | • | | | |
| other than seed use) | 510 | 396 | 548 | 282 | 124 |
| Closing stocks (including flour as wheat)(a)(b) | 3,404 | 1,451 | 478 | 1,882 | 1,658 |
| Total disposals | 15,087 | 11,988 | 8,008 | 12,407 | 13,257 |
| Excess (+) or deficiency (-) of disposals in | | | | | |
| relation to total available supplies (d) . | -25 | -12 | — 33 | 58 | +18 |

⁽a) Held at ports, depots, mills and sidings. (b) Source: Australian Wheat Board. (c) In terms of wheat. (d) Includes allowances for unrecorded movements in stocks, gain or loss in out-turn, etc., and in differences related to the timing of official export statistics.

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AUSTRALIAN WHEAT BOARD: FINANCIAL OPERATIONS (\$'000)

| | | | 70 71 Pool | 71 72 Pool | 72 73 Pool | 73/74(a) Pool | 74/75(a) Poul |
|--------------------------|------|-----|---------------|---------------|---------------|------------------|------------------|
| Paid to growers . | | | 310,798 | 317,047 | 262,728 | 1,087,399 | 1,027,887 |
| Rail freight | | | 50,994 | 47,636 | 36,498 | 77,300 | 85,000 |
| Expenses | | | 37,406 | 32,974 | 39,521 | 19,375 | 43,448 |
| Wheat Industry Researc | h Fu | ind | 713 | 689 | 555 | 1,232 | 1,175 |
| Stabilisation Fund(a) | | | • • | | | 48,599 | 30,000 |
| Total payments | | | 399,911 | 398,346 | 339,302 | 1,233,905 | 1,187,510 |
| Value of sales delivered | | | 367,853 | 358,214 | 326,942 | 1,233,905 | 1,187,510 |

⁽a) Prior to the 1973-74 pool, the Commonwealth Government made payments into the fund of \$32,058,000, \$40,132,000 and \$12,360,000 for the 1970-71, 1971-72 and 1972-73 Pools respectively. Payments since, have been made by the Wheat Board.

Details of earlier pools will be found in previous issues of the Year Book.

Imports of wheat

Wheat and flour have been imported in substantial quantities on four occasions since 1900; in 1902–3 the wheat harvest was only 336,874 tonnes, and wheat and flour equivalent to 339,323 tonnes of wheat were imported. An equivalent of 198,102 tonnes was imported in 1914–15 to supplement the yield of 680,000 tonnes produced in that season. Drought conditions in the Eastern States in 1945 necessitated the importation of feed grains from the U.S.A. including 20,000 tonnes of wheat. Owing to drought conditions in 1957–58 supplies of high protein wheat were insufficient for local requirements and, as a result, 40,415 tonnes were imported from Canada in 1958. No significant imports of wheat have since been recorded.

Exports of wheat and flour

Statistics in the following three tables are for years ended 30 June and relate to the exports of Australian produce only.

WHEAT AND FLOUR: EXPORTS, AUSTRALIA (\$'000 f.o.b.)

| | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|----------------------|---------|--|---|-------------------|-------------------|-------------------|-------------------|---------------------|
| Wheat(a) Flour(b) | | | • | 433,000 21,374 | 418,529 15.091 | 273,096 14.579 | 517,114 23,082 | 1,034,396 51,479 |
| Total | · ı. | | | 454,374 | 433,620 | 287,675 | 540,196 | 1,085,875 |

⁽a) Includes both bulk and bagged. (b) White flour (plain and self-raising), sharps and wheatmeal for baking.

| WHEAT: I | EXPORTS | TO | VARIOUS | COUNTRIES, | AUSTRALIA |
|----------|----------------|----|----------------|------------|-----------|
| | | | ('000 tonne | es) | |

| Country to w | hich | expor | ted | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|---------------|-------|--------|--------|--------|-----|---------|---------|---------|---------|---------|
| Arab Repub | lic o | f Egyp | t. | | | 1,275 | 1,801 | 777 | 715 | 861 |
| Bangladesh | | | | | | | 14 | 53 | 242 | 310 |
| China (exclu | ding | Taiwa | an pro | ovince |) . | 1,310 | | 324 | 1,163 | 1,423 |
| India . | . ~ | | | | | 116 | 55 | | 666 | 236 |
| Indonesia | | | | | | | 105 | 72 | 115 | 598 |
| Iran . | | | | | | 295 | 397 | | | 424 |
| Iraq . | | | | | | 437 | 192 | | 116 | 255 |
| Japan . | | | | | | 821 | 1,466 | 752 | 424 | 1,009 |
| Malaysia | | - | · | • | | 312 | 310 | 300 | 315 | 285 |
| Pakistan, Isl | amic | Repu | blic c | | | 159 | 30 | 19 | 23 | 539 |
| Singapore | | | | | | 277 | 134 | 175 | 167 | 167 |
| U.S.S.R. | | | | | | | 502 | 908 | 18 | 63.5 |
| Other(a) | | • | | | | 4,086 | 3,454 | 2,013 | 1,165 | 1,184 |
| Total | | _ | | _ | | 9.089 | 8,460 | 5,391 | 5,128 | 7,926 |

⁽a) Includes particulars of shipments made 'for orders' which could not be classified to country of consignment at the time of export.

The following table shows the exports of flour to various countries in recent years. The figures relate to exports of white flour (plain and self-raising), sharps and wheatmeal for baking.

FLOUR(a): EXPORTS TO VARIOUS COUNTRIES, AUSTRALIA (tonnes)

| Country to which exported | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|----------------------------|------|---------|---------|---------|---------|---------|
| Fiji | | 33,631 | 33,948 | 31,606 | 16,263 | 6,734 |
| Gilbert and Ellice Islands | | 1,611 | 1,737 | 1,876 | 2,044 | 2,482 |
| Mauritius | | 13,542 | 17,295 | 17,517 | 17,162 | 16,024 |
| Oman | | 4,727 | 6.204 | 5,169 | 6,600 | 6,620 |
| Papua New Guinea | | 21,408 | 19,521 | 19,567 | 18,526 | 21,486 |
| Dhilimminaa | | 1,597 | 786 | 8,179 | 8,154 | 5,467 |
| Samoa (Western) . | | 2,333 | 2,502 | 2,519 | 3,144 | 3,821 |
| Saudi Arabia | | 10,570 | 9,530 | 10,017 | 11,029 | 7,956 |
| Somali, Democratic Repu | | | ., | | | 5,156 |
| Sri Lanka | | 85,020 | 14,911 | 13,524 | 21,715 | 117,346 |
| Tongo | | 2,979 | 3,402 | 4,089 | 3,227 | 3,401 |
| Haitad Amb Paristan | | 18,072 | 17.951 | 23,176 | 26,190 | 31,642 |
| Other(b) | | 105,377 | 68,721 | 47,376 | 13,750 | 11,646 |
| Total | | 300,867 | 196,508 | 184,615 | 147,804 | 239,781 |

⁽a) Plain white and self-raising flour, sharps and wheatmeal for baking. (b) Includes particulars of shipments made 'for orders' which could not be classified to country of consignment at the time of export.

World area and production of wheat

The figures in the following table of the world area and production of wheat by principal countries and by continents have been compiled from statistics published by the International Wheat Council. Harvests in the northern hemisphere occur in the first of the two years mentioned in each column heading, and in the southern hemisphere at the end of that year and the beginning of the next. Harvests of the northern hemisphere countries are thus combined with those of the southern hemisphere which immediately follow; e.g. in 1974-75 the Canadian harvest occurred from August to September 1974 and the Australian harvest from October 1974 to February 1975.

WHEAT: AREA, PRODUCTION, AND YIELD PER HECTARE IN VARIOUS COUNTRIES AND REGIONS(a)

(Source for countries other than Australia: International Wheat Council—Review of the World Wheat Situation)

| 75 1975-76 000 '000 res hectare 117 n.a 000 n.a 12 5,88 150 9,03 | 0 '000 '5000 ss tonnes 8,730 s. 27,000 s. 24,735 s 7,443 s 10,000 s. 79,200 | '000 tonnes 8,480 31,200 22,073 7,629 11,000 82,759 | '000 tonnes (b)8,475 32,000 26,000 7,299 14,750 92,450 | tonnes 0.912 1.080 1.270 1.247 1.130 1.091 | 1974-75 tonnes 0.940 1.200 1.158 1.248 1.257 | 1975-76p tonnes n.a. n.a. 1.240 1.633 n.a. |
|--|---|--|---|--|--|---|
| nes hectare n.a. h | tonnes a. 27,000 a. 24,735 8 7,443 5 10,000 a. 79,200 | 31,200 22,073 7,629 11,000 82,759 | tonnes (b)8,475 32,000 26,000 7,299 14,750 92,450 | 1.080 1.270 1.247 1.130 | 1.200 1.158 1.248 1.257 | n.a. n.a. n.a. 1 . 240 1 . 633 |
| 000 n.a 000 n.a 057 n.a 12 5,88 050 9,03 | a. 8,730 a. 27,000 a. 24,735 8 7,443 5 10,000 a. 79,200 | 8,480 31,200 22,073 7,629 11,000 82,759 | 32,000 26,000 7,299 14,750 92,450 | 1.080 1.270 1.247 1.130 | 1.200 1.158 1.248 1.257 | n.a. n.a. n.a. 1 . 240 1 . 633 |
| 000 n.a 157 n.a 12 5,88 150 9,03 | 27,000 1. 24,735 8 7,443 5 10,000 1. 79,200 | 31,200 22,073 7,629 11,000 82,759 | 32,000 26,000 7,299 14,750 92,450 | 1.080 1.270 1.247 1.130 | 1.200 1.158 1.248 1.257 | n.a. n.a. 1 . 240 1 . 633 |
| 957 n.: 12 5,88 950 9,03 916 n. | 24,735 8 7,443 5 10,000 1. 79,200 | 22,073 7,629 11,000 82,759 | 26,000 7,299 14,750 92,450 | 1.270 1.247 1.130 | 1.158 1.248 1.257 | n.a. 1 . 240 1 . 633 |
| 957 n.: 12 5,88 950 9,03 916 n. | 24,735 8 7,443 5 10,000 1. 79,200 | 22,073 7,629 11,000 82,759 | 26,000 7,299 14,750 92,450 | 1.270 1.247 1.130 | 1.158 1.248 1.257 | n.a. 1 . 240 1 . 633 |
| 12 5,88 50 9,03 316 n.a | 8 7,443 5 10,000 1. 79,200 | 7,629 11,000 82,759 | 7,299 14,750 92,450 | 1.247 | 1.248 1.257 | 1.240 1.633 |
| 750 9,03 16 n.a | 5 10,000 2. 79,200 | 11,000 82,759 | 14,750 92,450 | 1.130 | 1.257 | 1.633 |
| 316 n.c | ı. 79,200 | 82,759 | 92,450 | | | |
| | · | · | ,,,,, | 1.091 | 1.137 | n.a. |
| 23 10 47 | 6 41.443 | 15 216 | | | | |
| 23 10 47 | 6 41.443 | 15 216 | | | | |
| | 6 41.443 | | | | | |
| | | | 38,072 | 3.826 | 4.040 | 3.634 |
| 39 3,86 | 7 17,882 | 19,106 | 15,100 | 4.516 | 4.616 | 3.905 |
| 31 1,57 | 1 7,134 | 7,761 | 6.976 | 4.450 | 4.758 | 4,440 |
| 12 3,55 | 3 8,920 | 9,695 | 9,600 | 2.485 | 2.612 | 2.702 |
| 35 n.a | . 82,165 | 90,678 | 78,53 5 | 3.096 | 3.317 | n.a. |
| 01 10.30 | 0 16,460 | 13,300 | 16,500 | 1.745 | 1.400 | 1.602 |
| 27 27,90 | | | 58,200 | 2.117 | 1.847 | 2.086 |
| | | | | | | |
| 36 39.04 | 0 64,930 | 64.880 | (d)77,550 | 2.027 | 1.766 | 1.986 |
| , | ,,,,,,,, | 07,000 | (,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | 2.,,00 |
| 08 8,55 | 5 11,987 | 11,357 | 11,824 | 1.340 | 1.367 | 1.383 |
| دد,ه ه | 3 11,987 | 11,337 | 11,824 | 1.340 | 1.307 | 1.383 |
| 67 n.c | . 12,236 | 11,547 | 11,934 | 1.355 | 1.306 | n.a. |
| | | | | | | |
| 00 4,60 | 0 6,560 | 5,400 | 8,000 | 1.657 | 1.385 | 1.739 |
| 00 " | 0 078 | 0 820 | 12 412 | 1 535 | 1 328 | (b) |
| | • | • | • | | | |
| | 0 109,700 | 83,800 | 70,000 | 1.736 | 1.404 | 1.148 |
| | . 366.939 | 351,973 | 351.356 | 1.672 | 1.590 | D.8. |
| | 100 n.a | 100 n.a. 9,978 | 700 n.a. 9,978 9,829 700 61,000 109,700 83,800 | 9,978 9,829 12,412 000 61,000 109,700 83,800 70,000 | 9,978 9,829 12,412 1.535 000 61,000 109,700 83,800 70,000 1.736 | 900 n.a. 9,978 9,829 12,412 1.535 1.328 900 61,000 109,700 83,800 70,000 1.736 1.404 |

(a) Totals include estimates for countries not listed. (b) International Wheat Council estimate. (c) United States Department of Agriculture estimate. (d) Includes spelt.

Principal wheat exporting and importing countries

The following table shows world exports of wheat and wheat flour (in terms of wheat) by the major wheat exporting countries, according to continents and countries of primary destination, based on statistics recently published by the International Wheat Council. While Australia's production of wheat has averaged about three per cent of the world's total during recent years, its exports account for a much higher proportion of the total quantities shipped. For the three years ended 1975–76 Australia's share of the world wheat exports has averaged 14 per cent.

WORLD EXPORTS OF WHEAT, AND WHEAT FLOUR IN TERMS OF WHEAT 1970-71 TO 1974-75

(Source: International Wheat Council—Review of the World Wheat Situation)
('000 tonnes)

| V | Exporting co | ountry | | | | | | |
|--|--------------|-----------|--------|--------|--------|----------|-------|-------|
| Year and country o primary destination | Argentina | Australia | Canada | E.E.C. | U.S.A. | U.S.S.R. | Other | Tota |
| 1974-75 <i>p-</i> | | | | | | | | |
| Algeria | 103 | .:. | 613 | 363 | 717 | | 128 | 1,92 |
| Arab Republic of Egypt . | 15 | 848 | .11 | 1,601 | 750 | • • | 180 | 3,39 |
| Bangladesh | 18 | 299 | 332 | 631 | 790 | | 50 | 2,12 |
| Brazil | | :: | 987 | | 596 | • • | | 1,66 |
| Chile | 50 | 97 | | • • | 516 | •• | • • | 66. |
| China—excl. Taiwan | | | | | | | | |
| Province | 210 | 1,244 | 2,366 | 180 | 1,496 | -11 | | 5,49 |
| Cuba | | • • | 748 | • • | | 200 | • • | 94 |
| Czechoslovakia | | | | 1 | | 600 | 75 | 67 |
| E.E.C. (incl. U.K.) | 217 | | 2,555 | | 2,158 | | 322 | 5,25 |
| German Democratic Re- | • | | | | | | | |
| public | | | • • | | | 1,300 | 255 | 1,55 |
| India | 260 | 261 | 506 | 823 | 4,300 | | 150 | 6,30 |
| Indonesia | | 598 | 78 | 55 | 98 | | | 82 |
| Iran | | 424 | | 57 | 1,735 | | 1 | 2,21 |
| Japan | 33 | 963 | 1,187 | | 3,079 | | | 5,26 |
| Korea, Republic of | | | | | 1,733 | | | 1,73 |
| Lebanon | 16 | 88 | 180 | 55 | 95 | | 200 | 63 |
| Mexico | | | | | 832 | | | 83 |
| Morocco | 90 | | 17 | 373 | 456 | | 51 | 98 |
| Pakistan, Islamic Republic | : | | | | | | | |
| of | | 539 | 29 | 277 | 885 | | 19 | 1,74 |
| Peru | | 120 | 117 | 19 | 628 | | | 88 |
| Philippines | | 18 | 159 | 15 | 323 | | | 51 |
| Poland | | | 74 | | 52 | 1,000 | 161 | 1.28 |
| Saudi Arabia | | 67 | 15 | 157 | 287 | | | 52 |
| Sri Lanka | | 222 | 2 | 310 | 109 | | 18 | 66 |
| Turkey , | | | | 285 | 675 | | 50 | 1.01 |
| U.S.S.R. | 680 | 656 | 313 | | 978 | | 201 | 2.82 |
| Venezuela | | | 52 | | 655 | | | 70 |
| Vietnam | | | | | | 600 | 6 | 60 |
| Other countries . | 402 | 1,605 | 838 | 1,991 | 4,382 | 300 | 649 | 10,16 |
| Total 1974-75 . | 2,178 | . 8,049 | 11,168 | 7,193 | 28,325 | 4,000 | 2,516 | 63,42 |
| 1970-71 | 1,704 | 9,492 | 11,561 | 3,165 | 19,821 | 7,072 | 1,459 | 54,27 |
| 1971-72 | | 8,736 | 13,761 | 4,656 | 16,907 | 5,478 | 1,668 | 52,53 |
| 1972–73 | 3,510 | 5,562 | 15,648 | 6,525 | 31,992 | 1,303 | 3,738 | 68,27 |
| 1973-74 | 1,106 | 5,509 | 11,737 | 5,467 | 31,068 | 5,035 | 3,149 | 63,07 |

The above particulars are based on customs clearances of the exporting countries, and relate to years ended 30 June. There are small differences between Australian exports as shown and those on pages 759-60 due in part to the use by the International Wheat Council of a slightly different factor to convert flour to wheat equivalent.

Oats

Oats is traditionally a cereal of moist temperate regions. However improved varieties and management practices have enabled oats to be grown over a wide range of soil and climatic conditions. It has excellent feed value and produces a greater bulk of growth than other winter cereals. It needs less cultivation than other winter cereals and responds to superphosphate and nitrogen in districts where it is usual to apply fertilisers. Oats has a variety of uses—as a pasture plant when rough sown into stubble or heavy clover pastures, as a fodder crop when mown and baled or cut for chaff, or as a grain when stripped (the stubble then being grazed off). The grain is sold through voluntary pools in Victoria, South Australia and Western Australia. In 1971 State statutory marketing boards were set up in New South Wales and Victoria after a poll of growers. The Victorian board was disbanded in 1972 and marketing reverted to a voluntary pooling arrangement. In Western Australia the grain is sold through a voluntary pool and in South Australia through private trading organisations.

Oats area, production and yield per hectare

Oats is usually next in importance to wheat and barley among the grain crops cultivated in Australia. However, while wheat grown for grain in 1974-75 accounted for 60 per cent of the area of all crops, oats grown for grain represented only 6 per cent.

OATS

OATS FOR GRAIN: AREA, PRODUCTION AND YIELD PER HECTARE

| | _ | | | N.S.W. | Vic. | Qld | S.A | W.A. | Tas. | A.C.T. | Aust. |
|----------|---|---|-----|--------|---------|-----------|---------|-------|-------|--------|-------|
| | | | | | AREA | ('000 HE | CTARES) | | | | |
| 1971–72 | | | | 261 | 329 | 21 | 169 | 454 | 6 | | 1,241 |
| 1972-73 | | | | 285 | 255 | 10 | 142 | 297 | 6 | | 995 |
| 1973-74 | | | | 405 | 271 | 20 | 152 | 325 | 9 | | 1,182 |
| 1974-75 | | | | 270 | 198 | 25 | 135 | 262 | 6 | | 897 |
| 1975–76p | | • | ٠ | 289 | 243 | 12 | 119 | 320 | 4 | •• | 987 |
| - | | | |] | PRODUC | TION ('00 | 0 TONN | ES) | | | |
| 1971-72 | | | | 221 | 449 | 18 | 166 | 414 | 7 | | 1,275 |
| 1972-73 | | | | 196 | 238 | 8 | 74 | 212 | 7 | | 736 |
| 1973-74 | | | | 327 | 233 | 13 | 142 | 383 | 8 | | 1,107 |
| 1974-75 | | | | 293 | 186 | 28 | 112 | 250 | 5 | | 874 |
| 1975–76p | • | • | • | 350 | 282 | 13 | 107 | 385 | 4 | | 1,141 |
| | | | | , | YIELD P | ER HECT | ARE (TO | NNES) | | - | |
| 1971–72 | | | · · | 0.847 | 1.364 | 0.857 | 0.982 | 0.912 | 1.097 | 0.851 | 1.028 |
| 1972-73 | | | | 0.689 | 0.936 | 0.789 | 0.525 | 0.715 | 1.103 | 0.516 | 0.740 |
| 1973-74 | | | | 0.808 | 0.858 | 0.677 | 0.935 | 1.179 | 0.899 | 1.181 | 0.937 |
| 1974-75 | | | | 1.086 | 0.940 | 1.120 | 0.828 | 0.951 | 0.906 | 1.185 | 0.975 |
| 1975-76p | | | | 1.211 | 1.160 | 1.083 | 0.899 | 1.203 | 1.000 | 1.133 | 1.156 |

A map showing the distribution of areas growing oats for grain throughout Australia in 1962–63 appears on page 1015 of Year Book No. 50. The area sown to oats from 1900–01 to 1970–71 is shown in Year Book No. 58, Plate 39, page 746. The production of oats from 1945–46 to 1975–76 is shown in plate 48, page 763.

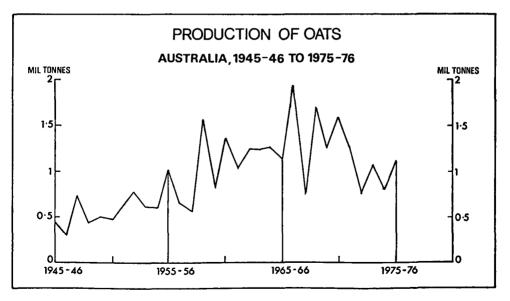


PLATE 48

Exports of Oats

OATS: EXPORTS, AUSTRALIA

| | | - | 1970-71 | 1971–72 | 1972–73 | 1973-74 | 1974-75 |
|-------------------|--|------------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| Quantity Value | | tonne \$'000 f.o.b. | 555,917 23,827 | 328,979 12,425 | 114,534 5,016 | 180,655 13,582 | 267,271 19,768 |

In 1974-75 the principal countries of destination were Japan (157,811 tonnes), Germany, F.R. (59,527 tonnes), Malaysia (5,149 tonnes) and the United Kingdom (2,859 tonnes).

World production of oats

The world production of oats for the 1974-75 season, according to estimates by the Bureau of Agricultural Economics, Canberra, amounted to 51 million tonnes. This represents a 5 per cent decrease in production over the previous year. The main producers are the Union of Soviet Socialist Republics, the United States, Canada, Germany F. R., and Poland, with Australia producing about 1.7 per cent of the world total. Australia is one of the world's largest exporters of oats.

Barley

This cereal contains two main groups of varieties, 2-row and 6-row. The former is generally, but not exclusively, preferred for malting purposes. Barley is grown principally on pasture land worked up early in the year of sowing. In this way it forms an important phase in the rotation of crops. Like oats, it may also be sown for fodder production or for grain. When sown for fodder, sowing may take place either early or late in the season, as it has a short growing period. It may thus provide grazing or fodder supplies when other sources are not available. Barley grain may be crushed to meal for stock or sold for malting.

Crops sown for malting purposes require a combination of light textured soil of moderate fertility, reliable rainfall, and mild weather during ripening. The main barley-growing areas in Australia are situated in South Australia (South Adelaide Plains, Eyre and Yorke Peninsulas), but considerable quantities are grown also in New South Wales, Victoria, Queensland and Western Australia. There are State statutory marketing boards operating in New South Wales, Victoria, Queensland and South Australia. The Western Australian Barley Marketing Board was abolished at the end of 1975 and the marketing of barley in Western Australia is now the responsibility of the Grain Pool of Western Australia.

BARLEY 765

Barley Boards

The bulk of the barley crop is acquired and marketed by grower-controlled boards. (In Western Australia these functions are carried out by the Grain Pool of Western Australia.) Pooled returns from sales are distributed to growers at standard rates for the individual grades and varieties delivered. The Victorian and South Australian crops are marketed by the Australian Barley Board (a joint board established by the two State Governments), and the Queensland and New South Wales Boards and the Grain Pool of Western Australia handle the crops of their respective States. Particulars of the proportion of barley production which was received by the Australian Barley Board (for Victoria and South Australia), together with details of quantity sold, advances and total payments to growers are presented below.

AUSTRALIAN BARLEY BOARD: BARLEY RECEIVED, SOLD, ETC. 1970-71 TO 1974-75

| Pool | | Quantity received | Quantity sold | Total advances per tonne(a) | Net payments to growers |
|-------------------------|--|--------------------------|------------------|--------------------------------------|-------------------------------|
| | | tonnes | tonnes | 8 | \$'000 |
| No. 32 (1970-71 Crop) . | | 827,829 | 826,083 | 48.54 | 34,551 |
| ,, 33 (1971–72 ,,) . | | 1,135,065 | 1,132,104 | 42.49 | 38,302 |
| ,, 34 (1972–73 ,,) . | | 441,949 | 442,001 | 56.01 | 21,949 |
| ,, 35 (1973–74 ,,) . | | 911,481 | 910,293 | 82.15 | 70,128 |
| " 36 (1974–75p "). | | 1,350,645 | 1,346,255 | | 117,533 |

(a) 2-row No. 1 Grade (bulk) less freight.

Barley area, production and yield per hectare

The production of barley for grain in 1974-75, 2,513,000 tonnes, was 18 per cent less than the previous record production of 3,065,000 tonnes in 1971-72. The area, production and yield per hectare of barley for grain in the States for the years 1971-72 to 1975-76 are shown in the following table.

BARLEY FOR GRAIN: AREA, PRODUCTION AND YIELD PER HECTARE

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Aust. |
|----------|--|--------|--------|-----------|--------|------|------|--------|-------|
| • | | | AREA (| ('000 HEC | TARES) | | | | |
| 1971–72 | | 373 | 296 | 159 | 784 | 911 | 13 | | 2,535 |
| 1972-73 | | 336 | 277 | 78 | 692 | 744 | 13 | | 2,140 |
| 1973-74 | | 386 | 222 | 139 | 627 | 510 | 11 | :. | 1,894 |
| 1974-75 | | 327 | 243 | 156 | 701 | 387 | 12 | | 1,826 |
| 1975-76p | | 486 | 344 | 236 | 832 | 419 | 12 | | 2,329 |

RURAL INDUSTRY

| | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Aust |
|----------|---|---|--------|-----------------------------|-----------|------------------|------------------------|--------------------------|--------------------------|--------------------------|
| | | | | PRODUC | TION ('00 | 0 TONNI | ES) | | | |
| | | | 346 | 395 | 249 | 1,047 | 1,000 | 28 | | 3,065 |
| | | | 266 | 214 | 80 | 509 | 640 | 19 | | 1,727 |
| | | | 448 | 285 | 221 | 793 | 626 | 24 | | 2,397 |
| | | | 408 | 319 | 297 | 1,134 | 329 | 28 | | 2,515 |
| <u>.</u> | • | • | 697 | 445 | 419 | 1,094 | 507 | 18 | •• | 3,180 |
| | | | YI | ELD PER | неста | RE (TON | NES) | | | |
| | | | 0.927 | 1.336 | 1.568 | 1.336 | 1.098 | 2.202 | | 1.209 |
| | | | 0.792 | 0.771 | 1.026 | 0.735 | 0.861 | 1.462 | | 0.807 |
| | | | 1.162 | 1.287 | 1.592 | 1.264 | 1.228 | 2.139 | | 1.265 |
| | | | 1.248 | 1.314 | 1.902 | 1.619 | 0.850 | 2.333 | | 1.382 |
| | | | 1.434 | 1.294 | 1.775 | 1.315 | 1.210 | 1.500 | | 1.365 |
| | | | | Y1 0.927 0.792 1.162 1.248 | PRODUCE | PRODUCTION ('00' | PRODUCTION ('000 TONN) | PRODUCTION ('000 TONNES) | PRODUCTION ('000 TONNES) | PRODUCTION ('000 TONNES) |

BARLEY FOR GRAIN: AREA, PRODUCTION AND YIELD PER HECTARE-continued

The production of barley in Australia since 1945-46 is shown in plate 49, and a map showing the distribution of barley growing areas throughout Australia in 1962-63 appears on page 1014 of Year Book No. 50. The area sown to barley from 1900-01 to 1970-71 is shown in Year Book No. 58, plate 39, page 746.

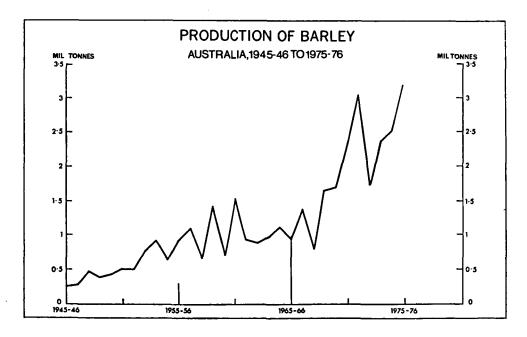


PLATE 49

BARLEY 767

Exports of barley

South Australia is the principal exporting State, and the Republic of Korea, Taiwan Province and Japan were the principal countries to which barley was shipped in 1974-75. Particulars of exports of Australian-produced barley for the years 1970-71 to 1974-75 are shown in the following table.

BARLEY: EXPORTS, AUSTRALIA

| | | | 1970–71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|---------------------|------|----------------------------|---------------------|---------------------|-------------------|-------------------|----------------------|
| Quantity Value . | • | . tonne . \$'000 f.o.b. | 1,122,970 50,820 | 1,816,765 74,344 | 804,122 38,512 | 508,467 68,463 | 1,759,700 186,682 |

In addition to exports of barley grain, there are also exports of Australian pearl and Scotch barley, the total for 1974-75 amounting to 917,285 kgs, valued at \$195,146, the main country of consignment being Peru.

Barley malt

Since 1952-53 the production of malt in Australia has been sufficient to meet local requirements and to provide a margin for export. Exports of Australian produce amounting to 149,373 tonnes (value \$20,706,000) and 213,645 tonnes (value \$35,711,000) were recorded in 1973-74 and 1974-75 respectively.

World production of barley

In comparison with the barley production of other countries that of Australia is extremely small. The main producers in 1974 were the Union of Soviet Socialist Republics, China (excluding Taiwan Province), France, United Kingdom, Canada, the Federal Republic of Germany and the United States of America. Australian production in 1974-75 was approximately 2 per cent of the world total.

According to preliminary estimates made by the Bureau of Agricultural Economics, Canberra, world production of barley in the year 1974 amounted to 171 million tonnes. This compared with the production of 169 million tonnes in the previous year.

Sorghum

The sorghums are summer growing crops which are used in three ways: grain sorghum for grain; sweet or fodder sorghum, sudan grass and more recently columbus grass for silage, green feed and grazing; and broom millet for brooms and brushware.

The growing of grain sorghum on an extensive scale did not attain a position of prominence until the last two decades. Operations are highly mechanised and rapid increases in production have resulted in a substantial increase in exports. The grain is used primarily as stockfeed and is an important source for supplementing other coarse grains for this purpose.

The climatic conditions of Queensland and northern New South Wales are particularly suited to the growing of sorghums. In Queensland grain sorghum production is concentrated in the Burnett, Dawson-Callide areas and in the Central Highlands. In New South Wales the north-western slopes and plains are the main areas.

In Central Queensland orderly marketing of the crop is arranged through the Central Queensland Grain Sorghum Marketing Board and in Southern Queensland the Grain Sorghum Export Committee of the Queensland Grain-growers Association. A State statutory marketing board commenced operations in New South Wales with the marketing of the 1972 crop.

| GRAIN SORGHUM: AREA | PRODUCTION AND | VIELD DED | HECTARE |
|---------------------|------------------|-------------|---------|
| GRAIN SURGIUM: AREA | . PRODUCITON AND | , lield fek | HECIARE |

| | | Area | | | Production | n | | Yield per hectare | | | |
|---------|--|----------|----------|----------|------------|--------|----------|-------------------|--------|----------|--|
| Year | | N.S.W. | Qld | Aust.(a) | N.S.W. | Qld | Aust.(a) | N.S.W. | Qld | Aust.(a) | |
| | | | | | '000 | '000 | '000 | | | | |
| | | hectares | hectares | hectares | tonnes | tonnes | tonnes | tonnes | tonnes | tonnes | |
| 1970-71 | | 180,365 | 368,717 | 552,184 | 487 | 806 | 1,297 | 2.697 | 2.186 | 2.350 | |
| 1971-72 | | 207,793 | 423,234 | 638,392 | 371 | 833 | 1,228 | 1.786 | 1.969 | 1.924 | |
| 1972-73 | | 269,002 | 414,133 | 697,162 | 372 | 622 | 1,018 | 1.382 | 1.502 | 1.460 | |
| 1973-74 | | 201,469 | 331,656 | 539,671 | 394 | 654 | 1,061 | 1.954 | 1.973 | 1.965 | |
| 1974-75 | | 176,209 | 328,886 | 511,089 | 257 | 634 | 901 | 1.457 | 1.928 | 1.762 | |

⁽a) Includes small areas sown and quantities produced in other States and Territories.

Maize

Like sorghum, maize is a summer cereal demanding specific soil and climatic conditions. For grain, growing is almost entirely confined to the south-east regions and Atherton Tablelands of Queensland and the north coast and northern tablelands of New South Wales. On the Atherton Tablelands in Queensland, and generally in New South Wales and Victoria, the cereal provides a stock feed for dairy cattle, fat stock, poultry and pigs. In times of drought it is used also as a sheep feed. In all States except South Australia, however, this crop is grown to some extent for green feed and silage, particularly in connection with the dairying industry. There is practically no difference between grain and fodder varieties.

There has been a continuing increase in recent years in the growing of maize from hybrid strains of seed. Varieties have been developed which are capable of producing yields per hectare considerably in excess of the older open pollinated types. The expansion in areas sown to hybrid maize has led to a parallel development in the specialised industry of growing hybrid strains for seed.

A State statutory board controls marketing in the Atherton Tablelands area of Queensland. Marketing of maize in New South Wales has in the past been conducted by private merchants. A poll of growers in 1975 voted for the formation of a marketing board in that State and the Board is expected to commence operation with the 1977 crop.

Production of maize in Australia is small, totalling only 133,000 tonnes in 1974–75. This produce is mostly consumed domestically with a small proportion going to the export market.

Maize area, production and yield per hectare

MAIZE FOR GRAIN: AREA, PRODUCTION AND YIELD PER HECTARE

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|---|---|-------|--|---|--|--------------------|-------------------------------------|------|-------------|--------|--|
| | | | | A | REA (HE | CTARE | ES) | | | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | | | 33,313 33,243 23,850 17,950 22,177 | 535 375 496 654 543 | 51,725 44,546 34,913 27,002 28,675 | (a) (a) | 62 29 (a) (a) (a) | | (a) | (| 85,635 78,193 b)59,259 b)45,606 b)51,395 |
| | | | | PRODU | CTION (| 000 ТО | NNES) | | | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | | | 106 114 67 48 60 | 2 2 2 2 2 | 104 97 70 56 72 | (a) (a) | (a) (a) (a) (a) | | (a) | | 212 214 (b)139 (b)106 (b)133 |
| | | | Y | IELD PI | ER HECT | ARE (T | ONNES) | | | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | : | : | 3.195 3.443 2.822 2.669 2.689 | 2.950 5.117 3.036 2.890 3.536 | 2.002 2.188 2.005 2.074 2.503 | (a) (a) | 0.645 3.828 (a) (a) (a) | | (a) | | 2.471 2.736 2.343 (b)2.320 (b)2.594 |

Exports of maize

MAIZE: EXPORTS, AUSTRALIA

| | • | | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|-------------------|---|---|---|------------------------|-----------------|-----------------|--------------|--------------|--------------|
| Quantity Value | | : | : | tonne \$'000 f.o.b. | 22,375 1,203 | 38,469 2,283 | 9,191 493 | 2,693 230 | 1,272 155 |

⁽a) Not available for publication. (b) Incomplete; see footnotes to individual States.

World production of maize

According to figures issued by the Bureau of Agricultural Economics, Canberra, world production of maize in the year 1974-75 season amounted to 282 million tonnes. This compared with production in the previous year of 312 million tonnes.

The United States of America is the most important maize-producing country in the world, and accounted for 41 per cent (118 million tonnes) of total world production in 1974-75.

Rice

The principal rice-growing areas of the world are confined almost entirely to Asia, although limited quantities are grown in other countries. In Australia rice was first cultivated at the Yanco Experimental Farm in New South Wales, but it was not grown commercially until 1924–25. Favoured by high average yields, rice culture made rapid progress in the Murrumbidgee Irrigation Areas until local requirements were met and a surplus became available for export. The area sown in the Murrumbidgee Irrigation Areas is controlled, as the quantity of water available is limited.

Apart from small experimental areas in Western Australia and the Northern Territory, rice-growing in Australia is practically confined to the Murray and Murrumbidgee Irrigation Areas in New South Wales and the Burdekin area of Queensland. In 1974–75, the largest purchasers of Australian rice were Papua New Guinea, the Pacific Islands, Indonesia and Hong Kong. Details relating to area, production, and Australian-produced exports for recent years are shown in the following table.

RICE: AREA, PRODUCTION AND EXPORTS, AUSTRALIA(a)

| | | | Production (paddy rice) | Average yield (paddy) | | |
|----------|------|----------|-------------------------|-----------------------------|---------|---------|
| Year | | Area | Quantity | per hectare | Imports | Exports |
| | | hectares | '000 tonnes | tonnes | tonnes | tonnes |
| 1970-71. | | 40,721 | 300 | 7.363 | 438 | 102,428 |
| 1971-72. | | 40,403 | 248 | 6.134 | 384 | 108,555 |
| 1972-73. | | 45,150 | 309 | 6.835 | 414 | 157,611 |
| 1973-74. | | 67,502 | 409 | 6.056 | 371 | 136,520 |
| 1974-75. | | 75,562 | 388 | 5.141 | 527 | 174,332 |

⁽a) For some years particulars of area and production for Western Australia and the Northern Territory are not available for publication, and are excluded.

Fodder crops

Hav

As well as crops grown specifically for grain, considerable areas of Australia are devoted to fodder crops. These crops are utilised either for grazing (as green feed), or conserved as hay, ensilage, etc.

This development of fodder conservation as a means of supplementing pasture and natural sources of stockfeed is the result of the comparatively unreliable nature of rainfall in Australian agricultural and pastoral areas.

FODDER CROPS

HAY: AREA, PRODUCTION AND YIELD PER HECTARE

| Season | | | | N.S.W. | Vic. | Qld | S.A | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|---|---|---|--------|---------|----------|---------|--------|-------|-------|--------|-------|
| | | | | | ARI | EA ('000 | НЕСТА | RES) | | | | |
| 1970–71 | | | | 47 | 80 | 16 | 84 | 116 | 4 | 1 | | 349 |
| 1971–72 | • | | | 65 | 88 | 13 | 78 | 95 | 2 | | | 341 |
| 1972–73 | | • | | 74 | 139 | 13 | 89 | 133 | 4 | | | 453 |
| 1973–74 | • | • | • | 49 | 70 | 10 | 80 | 113 | 3 | | | 325 |
| 1974–75 | • | | • | 37 | 46 | 8 | 51 | 73 | 2 | | •• | 216 |
| | | | | | PROD | UCTION | T 000') | ONNES) | | | | |
| 1970-71 | | | | 185 | 355 | 26 | 284 | 401 | 21 | | 1 | 1,274 |
| 1971-72 | | | | 193 | 363 | 48 | 296 | 332 | 13 | | | 1,247 |
| 1972-73 | | | | 175 | 442 | 34 | 203 | 351 | 17 | 1 | | 1,224 |
| 1973–74 | | | | 131 | 234 | 23 | 263 | 367 | 13 | 2 | | 1,034 |
| 1974–75 | • | • | ٠ | 98 | 159 | 22 | 168 | 214 | 8 | • • | •• | 669 |
| | | | | , | YIELD F | ER HEC | CTARE (| TONNE | S) | | | |
| 1970–71 | | | | 3.935 | 4.442 | 1.597 | 3.367 | 3.456 | 5.016 | 0.600 | 3.931 | 3.650 |
| 1971–72 | | | | 2.978 | 4.108 | 3.833 | 3.813 | 3.507 | 5.240 | 2.727 | 1.753 | 3.655 |
| 1972-73 | | | | 2.368 | 3.169 | 2.644 | 2.277 | 2.646 | 3.923 | 2.735 | 1.474 | 2.701 |
| 1973–74 | | | | 2.817 | 3.359 | 2.483 | 3.270 | 3.279 | 4.311 | 6.510 | 5.227 | 3.218 |
| 1974-75 | | | | 2.667 | 3.455 | 2.844 | 3.303 | 2.935 | 4.307 | 2.400 | 2.875 | 3.096 |

HAY: AREA OF VARIOUS TYPES GROWN 1974-75 (Hectares)

| State or Territory | | | | Oats | Wheat | Other | Total |
|--------------------|---|--------|--|---------|--------|--------|---------|
| New South Wales | | | | 19,305 | 15,338 | 2,004 | 36,647 |
| Victoria | | | | 38,250 | 5,440 | 2,425 | 46,115 |
| Oueensland . | | | | 3,353 | 1,005 | 3,340 | 7,698 |
| South Australia | | | | 34,951 | 9,832 | 6,034 | 50,817 |
| Western Australia | | | | 52,880 | 15,477 | 4,413 | 72,770 |
| Tasmania . | | | | 1,381 | 94 | 451 | 1,926 |
| Northern Territory | , | | | · | | 34 | 34 |
| Australian Capital | | ritory | | 8 | | · | 8 |
| Australia | | | | 150,128 | 47,186 | 18,701 | 216,015 |

Under normal conditions, hay, whether whole or in the form of chaff, is somewhat bulky for overseas trade, and consequently does not figure largely among Australian exports. During 1974-75 exports amounting to 9,871 tonnes, valued at \$582,000, were made, principally to Kuwait, Iran, Singapore and New Caledonia. Imports of hay are not recorded separately, but are considered to be negligible.

GREEN FEED OR SILAGE: AREA ('000 hectares)

| Aust | A.C.T. | N.T. | Tas. | W.A. | S.A. | Qld | Vic. | N.S.W. | | Year |
|-------|--------|------|------|------|------|-----|------|--------|---|---------|
| 1,396 | | | 32 | 144 | 132 | 487 | 105 | 495 | | 1970–71 |
| 998 | | 1 | 22 | 144 | 85 | 364 | 57 | 325 | | 1971-72 |
| 1,204 | 1 | 1 | 34 | 124 | 88 | 480 | 73 | 402 | | 1972-73 |
| 1,097 | | | 31 | 114 | 71 | 404 | 65 | 412 | | 1973-74 |
| 853 | | 3 | 27 | 75 | 59 | 341 | · 44 | 304 | _ | 1974-75 |

SILAGE: PRODUCTION

| ľ | T۸ | nn | es) |
|---|----|----|-----|
| | | | |

| Period | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------------------|-----------|---------|---------|--------|--------|--------|-------|--------|------------|
| Production during | ; | | | | | | | | |
| 1970-71 season | . 389,639 | 212,067 | 126,990 | 46,549 | 69,907 | 47,343 | (a) | 67 | (b)892,562 |
| 1971-72 | . 240,521 | 246,118 | 78,202 | 58,651 | 76,395 | 64,377 | 1,270 | 1,301 | 766,835 |
| 1972–73 ,, | . 180,648 | 148,494 | 50,546 | 22,878 | 50,567 | 25,017 | 5,269 | 211 | 483,630 |
| 1973–74 | . 361,945 | 289,393 | 47,719 | 46,777 | 81,186 | 57,055 | 3,560 | 670 | 888,305 |
| 1974–75 " | . 211,307 | 139,891 | 36,641 | 35,298 | 49,057 | 50,146 | 6,731 | 3,000 | 532,071 |

(a) Not collected.

(b) Incomplete; see footnote (a).

Soybeans

The soybean is cultivated widely throughout the world in temperate zones where hot damp summers provide adequate growing conditions. Although large quantities of beans are directly consumed in countries such as Japan, China (excluding Taiwan Province) and Indonesia, the greater part of world output is crushed for meal and oil. Major soybean producing countries are the United States of America, Brazil and China (excluding Taiwan Province).

The greater part of Australian production takes place in the Darling Downs, Burnett and Lockyer districts of Queensland and the Moree and Gunnedah districts of New South Wales. Production has risen rapidly in recent years to reach 73,723 tonnes in 1974–75.

Lupins

The lupin is an annual legume with a growing season closely following that of winter cereals. It prefers well drained soil but is otherwise fairly adaptable. In the past a small amount has been grown for grazing but a recent rapid expansion has followed the development in Australia of lupins with alkaloid-free seed. The seed has a high protein content and is finding use as a substitute for soya protein in human and animal food preparations. The main producing area is in the south-west of Western Australia where production reached 77,151 tonnes in 1974-75.

SUGAR CANE 773

Sugar cane

The growing of sugar cane is restricted to those coastal areas in Queensland and northern New South Wales which have suitable climatic and soil conditions.

The Bureau of Sugar Experiment Stations in Queensland renders a useful service to the sugar industry by advocating and demonstrating better methods of cultivation and the more scientific use of fertilisers, etc., and by producing and distributing improved varieties of cane. Although the Bureau of Sugar Experiment Stations undertake some work relating to milling technology, Sugar Research Ltd, of Mackay, is the main body undertaking technological research in raw sugar milling practices.

Bulk handling of sugar

Bulk handling of raw sugar is now in operation throughout the Australian sugar industry. The comparatively small New South Wales sugar industry was converted to bulk handling in 1954. In Queensland, terminals for the bulk loading of sugar were opened at Mackay in 1957, at Lucinda and Bundaberg in 1958, at Townsville in 1959, at Mourilyan in 1960, and at Cairns in 1964. The capacity and handling rates of the terminals have been continually upgraded. Total bulk storage capacity at present is 1,475,000 tonnes. From the proceeds of the 1974 season's sugar the industry allocated \$50,000,000 to finance upgrading of port and bulk storage facilities at Bundaberg and Lucinda. Bulk receiving facilities are in operation at all Australian refineries.

Mechanisation

For some years now practically the whole of the Queensland crop has been mechanically harvested. In New South Wales the changeover from manual to mechanical cutting was somewhat slow initially, but has advanced rapidly in recent years, 95 per cent of the crop having been cut by machines in 1975 compared with 22.4 per cent in 1972.

Area of sugar cane

A brief outline of the development of the industry was included in earlier issues of the Year Book (see No. 38, page 985). The area of sugar cane in Australia for recent seasons is shown in the following table. The whole area planted is not cut for crushing during any one season, there being always a considerable amount of young and 'stand-over' cane as well as a small quantity required for plants.

SUGAR CANE: AREA (Hectares)

| | | | New Soi | uth Wales | | Queensl | and | | Austral | lia - | | |
|--|---|---|--|--|----------------------------------|---|--|--|---|--|--|--|
| Year | | | Area crushed | | | Area crushed | | | Area crushed | Area of standover and newly- planted cane | Area cut for plants | Total |
| 1971-72 1972-73 1973-74 1974-75 1975-76p | : | : | 9,330 9,361 9,917 9,911 11,000 | 7,418 6,497 7,056 8,252 n.a. | 268 192 201 275 n.a. | 224,407 232,338 215,937 243,231 245,800 | 31,369 30,023 43,254 29,223 n.a. | 4,923 4,853 4,827 5,959 n.a. | 233,737 241,699 225,854 253,142 256,800 | 36,520 50,310 37,475 | 5,191 5,045 5,028 6,234 n.a. | 277,714 283,264 281,192 296,851 n.a. |

In 1975 the Queensland Government approved an increase of 13 per cent in the area assigned to the growing of cane in Queensland. This increase, which was allocated among existing cane growers, will provide, an additional 38,202 hectares, of cane land. Much of this new area is already growing cane which will be available for harvest in 1976-77.

Production of cane and sugar

The production of sugar cane in 1974-75 was a record 20,417,723 tonnes, one million tonnes greater than the previous record 1971-72 season. The production of raw sugar from 1945-46 is shown in plate 50 following.

SUGAR CANE: PRODUCTION OF CANE AND RAW SUGAR (Tonnes)

| | | | New South V | Vales | Queensland | | Australia | | |
|----------|--|--|-------------|----------|------------|-----------|------------|-----------|--|
| Year | | | Cane | Sugar(a) | Cane | Sugar(a) | Cane | Sugar(a) | |
| 1971–72 | | | 980,196 | 123,813 | 18,410,311 | 2,669,622 | 19,390,506 | 2,793,435 | |
| 1972-73 | | | 841,106 | 102,941 | 18,087,205 | 2,714,062 | 18,928,311 | 2,817,003 | |
| 1973-74 | | | 999,486 | 121,140 | 18,278,504 | 2,405,006 | 19,277,990 | 2,526,146 | |
| 1974-75 | | | 996,654 | 121,008 | 19,421,069 | 2,727,533 | 20,417,723 | 2,848,541 | |
| 1975-76p | | | 890,000 | n.a. | 21,069,000 | n.a. | 21,959,000 | n.a. | |

(a) Raw sugar at 94 net titre.

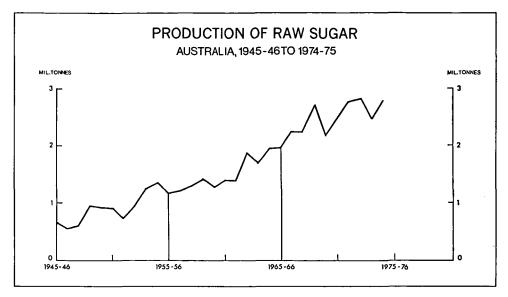


PLATE 50

Climatic conditions in some New South Wales areas are such that the crop matures in from twenty to twenty-four months, whereas in Queensland a period of from twelve to sixteen months is sufficient. The average yields of cane and sugar per hectare for recent years are shown below. Allowance should be made in interpreting these figures for the disparity in maturing periods noted above.

SUGAR CANE AND SUGAR: YIELD PER HECTARE (Tonnes)

| | | | New South | Wales | | Queenslar | ıd | | Australia | Australia | | | |
|-------------------------------|---|---|---------------------------|---|----------------------|-------------------------|-------------------------|----------------------|-----------------------------------|-------------------------------|----------------------|--|--|
| Year | | | | Sugar Cane to hectare each tonne p crushed of sugar | | per hectare per hect | | | Cane per hectare pe crushed | Sugar r hectare crushed | | | |
| 1971-72 1972-73 1973-74 | : | : | 105.06 89.85 100.79 | 13.27 12.94 12.22 | 7.92 6.94 8.25 | 82.04 77.85 84.65 | 11.90 11.68 11.14 | 6.89 6.67 7.60 | 82.96 78.31 85.36 | 11.95 11.73 11.18 | 6.94 6.68 7.64 | | |
| 1974–75 1975–76p | : | : | 100.75 100.56 80.91 | 12.21 n.a. | 8.24 n.a. | 79.85 85.72 | 11.21 n.a. | 7.12 n.a. | 80.66 85.51 | 11.25 n.a. | 7.17 n.a | | |

Production and utilisation of sugar

Details of the production and utilisation of sugar are shown below. Consumption is shown in terms of refined sugar, including that consumed in manufactured products.

SUGAR: PRODUCTION AND UTILISATION, AUSTRALIA

| | | Changes in | Production | | Miscel- laneous | Consumption in Australia(e) | | |
|---------|--|---------------|-------------|-------------|--------------------|-----------------------------|----------|--|
| Year | | stocks(a) | (raw)(b) | Exports(c) | uses(d) | Total | Per head | |
| | | '000 tonnes | '000 tonnes | '000 tonnes | '000 tonnes | '000 tonnes | kg | |
| 1969-70 | | n.a. | 2,201.9 | 1,386.6 | n.a. | 618.9 | 49.7 | |
| 1970-71 | | л.а. | 2,451.7 | 1,596.8 | n.a. | 636.3 | 50.8 | |
| 1971-72 | | · n.a. | 2,579.4 | 2,033.0 | n.a. | 645.6 | 50.2 | |
| 1972-73 | | n.a. | 2,671.4 | 2,134.7 | n.a. | 664.4 | 50.8 | |
| 1973-74 | | n.a. | 2,519.4 | 1,812.2 | n.a. | 666.0 | 50.2 | |

⁽a) Includes allowance for estimated sugar content of imported foodstuffs. (b) Year ended June; tel quel basis. Not comparable with production figures shown in production table as those relate to year ended March on a 94 net titre basis. (c) Raw and refined, including ships' stores and sugar in exported foodstuffs. (d) Includes refining losses and quantities used in golden syrup and treacle. (e) Includes sugar content of manufactured products consumed.

Sugar prices and returns

RAW SUGAR(a), AUSTRALIA

| Year | | | Average return p | Estimated | | |
|----------|------|---------------------|---------------------|-----------|---------------|------------------|
| | | Proportion exported | Home consumption | Exports | Whole crop | value of crop |
| | | per cent | \$ | \$ | \$ | \$'000 |
| 1970-71. | | 72.36 | 138.08 | 86.44 | 100.72 | 254,191 |
| 1971-72. | | 75.09 | 136.51 | 99.35 | 108.61 | 303,290 |
| 1972-73. | | 74.87 | 134.93 | 112.26 | 117.96 | 332,184 |
| 1973-74. | | 70.94 | 132.40 | 129.55 | 130.38 | 329,336 |
| 1974-75. | | 73.65 | 129.90 | 304.82 | 258.72 | (c)736,821 |

⁽a) 94 net titre. (b) Includes repayments of Commonwealth Government loan. million retained from export sales proceeds to finance port and storage developments.

⁽c) Excludes the sum of \$50

The estimated values stated, comprise the gross receipts from sales in Australia and overseas, less refining costs, freight, administrative charges, etc., and export charges. The deductions include concessions to the fruit industry and other rebates, which in 1974–75 amounted to \$15,745 and also payment of the first instalment of the repayable Commonwealth Government arranged loan. The residual value thus obtained represents the net market value of all raw sugar sold, which is divided between the growers and millers in the approximate proportions of two-thirds and one-third respectively.

The wholesale price of refined sugar to the retailer of \$203.46 per tonne and the capital cities retail price of 23 cents per kg remained unchanged from 19 June 1967 to 1 February 1975 when the two prices were raised to \$219.50 and 27 cents respectively.

Exports of sugar

RAW AND REFINED SUGAR: EXPORTS, AUSTRALIA

| | | | | 1971–72 | 1972-73 | 1973–74 | 1974–75 | 1975–76 |
|---------------------|---|---|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Quantity Value . | · | · | . tonnes . \$'000 f.o.b. | 2,007,983 210,593 | 2,084,430 249,759 | 1,781,478 223,313 | 1,995,667 644,499 | 2,012,538 569,722 |

Tobacco

Tobacco is a summer-growing annual which requires a temperate to tropical climate, adequate soil moisture and a frost-free period of approximately five months. In Australia almost all tobacco is grown under irrigation. Because of specialised requirements, production is limited to areas with suitable soils and climate. The main centres of production are the Mareeba-Dimbulah districts of north Queensland and Myrtleford in north-eastern Victoria. Other areas where tobacco is grown include Bundaberg, Beerwah and Texas (Queensland), Ashford (New South Wales) and Wangaratta (Victoria). All tobacco grown in Australia is of the flue-cured type except for small quantities of burley tobacco produced mainly in Victoria.

Tobacco area and production

The area planted to tobacco in 1974-75 was 28.6 per cent below the record area established in 1962-63. Production at 15,462,000 kg was 11.1 per cent below the previous record established in 1970-71. The following table shows the area and production of tobacco in the tobacco growing States in the last five years.

COTTON 777

TOBACCO: AREA AND PRODUCTION

| Year | | | | | | | N.S.W. | Vic. | Qld | Aust. |
|---------|---|---|---|----|-----|-------|-------------|--------------|-------|--------|
| | | | | | | ARE | A (HECTARES | () | | |
| 1970–71 | | | | • | | | 1,231 | 4,242 | 5,427 | 10,900 |
| 1971-72 | | | | | | | 1,273 | 3,844 | 4,928 | 10,045 |
| 1972-73 | | | | | | | 898 | 4,068 | 4,632 | 9,598 |
| 1973-74 | | | | | | | 837 | 3,940 | 4,501 | 9,278 |
| 1974–75 | • | • | • | • | • | • | 898 | 3,926 | 4,424 | 9,248 |
| | | | | PR | ODU | CTION | OF DRIED LE | AF ('000 kg) | | |
| 1970–71 | | | | | | | 1,270 | 6,902 | 8,956 | 17,128 |
| 1971-72 | | | | | | | 1,855 | 5,765 | 8,395 | 16,015 |
| 1972-73 | | | | | | | 1,449 | 5,769 | 8,203 | 15,421 |
| 1973-74 | | | | | | | 1,252 | 5,634 | 8,000 | 14,886 |
| 1974-75 | | | | | | | 1,369 | 6,086 | 8,007 | 15,462 |

Imports and exports of tobacco

Imports of tobacco and tobacco manufactures into Australia during 1974–75 were valued at \$41.6 million. This included 13.1 million kg of unmanufactured tobacco valued at \$26.1 million. Exports of tobacco and tobacco manufactures during 1974–75 were valued at \$4,128,000, including Australian produce, \$3,134,000.

Cotton

This annual shrub requires a hot climate and inter-row weed control. Lint (long fibres) is extracted from the seed cotton in the ginneries and is used for yarn. The residue, consisting of linters (short fibres), kernels and hulls (outer seed coat), is treated in oil mills. Linters are used in the manufacture of felts and other materials, where fibre length is of little importance. The kernels when crushed produce an oil which is used for both edible and industrial purposes. The residual meal is a useful high protein stockfeed: the hulls may be used as fuel.

Until 1964 cotton growing was mainly confined to Queensland, most of it being grown under conditions of natural rainfall. Since then there has been an increasing trend in the use of irrigation. A sound industry has been established in the Namoi and Macquarie Valleys in New South Wales with water provided by the Keepit and Burrendong Dams. More than three-quarters of Australia's raw cotton requirements are now produced in that area with the remainder produced in Queensland. In 1963 cotton was introduced into the Ord River area of Western Australia, but due to rising production costs and the continuing problem of insect infestation the commercial production of cotton in that area ceased with the 1975 crop. Nearly all Australian cotton is now grown with the assistance of irrigation and yields compare more than favourably with those obtained by traditional overseas cotton producing countries. Australian production currently satisfies all the requirements of local mills for short and medium staple cotton and should in the future, supply the comparatively small quantities of longer staple combing cottons currently imported. Raw cotton production in 1975 was 146,586 bales (a bale is approximately 225 kg in weight) compared with 135,536 bales produced in the previous year. The 1976 crop was reduced by floods and the preliminary estimates place this year's crop at only 113,560 bales. Some 69,689 bales of cotton were exported from the 1975 crop compared with 32,892 bales in the previous year. It is estimated that only about 10,000 bales will be available for export from the 1976 crop. The high level of exports in the previous year reflected the decrease in the demand for cotton on the domestic market due to difficulties experienced in the textile industry.

Cotton area, production and yield per hectare

COTTON: AREA, PRODUCTION AND YIELD PER HECTARE

| Year | | | | | | | N.S.W. | Qld | W.A. | Aust. |
|---------|---|---|---|----|------|-------|--------------|----------------|--------|-------------|
| | | | | | | ARE | EA (HECTARES | 5) | - | |
| 1970-71 | | | • | | | | 26,403 | 5,213 | 2,918 | 34,534 |
| 1971-72 | | | | | | | 29,310 | 6,897 | 3,442 | 39,649 |
| 1972-73 | | | | | | | 31,747 | 8,008 | 3,861 | 43,616 |
| 1973-74 | | | | | | | 31,020 | 7,105 | 3,591 | 41,716 |
| 1974–75 | ٠ | • | • | • | ٠ | ٠ | 27,511 | 7,386 | 3,642 | 38,539 |
| | | | | Pl | RODI | UCTIO | N (UNGINNED | 0)(a)('000 kg) | | |
| 1970-71 | | | | | | | 38,611 | 8,705 | 9,435 | 56,751 |
| 1971-72 | | | | | | | 100,822 | 18,585 | 12,564 | 131,971 |
| 1972-73 | | | | | | | 71,906 | 13,464 | 11,271 | 96,641 |
| 1973-74 | | | | | | | 58,806 | 18,390 | 9,197 | 86,393 |
| 1974–75 | • | • | • | ٠ | | • | 78,812 | 17,909 | 6,603 | 103,324 |
| | | | | | | YIELI | PER HECTA | RE (kg) | | |
| 1970-71 | | | | | | | 1,462 | 1,670 | 3,233 | 1,643 |
| 1971-72 | • | • | • | • | | • | 3,440 | 2,695 | 3,650 | 3,328 |
| 1972-73 | • | • | • | • | • | • | 2,265 | 1,681 | 2,919 | 2,216 |
| 1973-74 | • | • | • | • | • | • | 1,896 | 2,588 | 2,561 | 2,210 |
| 1974-75 | • | • | • | • | • | • | 2,865 | 2,425 | 1,813 | 2,681 |
| 1717-13 | • | • | • | • | • | • | 2,003 | 2,723 | 1,013 | 2,001 |

⁽a) Unginned cotton is seed cotton prior to being converted in the ginnery to raw (or lint) cotton.

Production of ginned cotton for each of the three years 1971-72 to 1973-74 was 38,960,000 kg, 33,669,000 kg and 28,496,000 kg respectively. Figures for 1970-71 are not available.

The gross value of cotton for each of the five years from 1970-71 to 1974-75 was \$13,293,000, \$30,117,000, \$32,625,000, \$26,636,000 and \$29,270,000 respectively.

Imports and exports of raw cotton

RAW COTTON(a): IMPORTS AND EXPORTS, AUSTRALIA

| | | | | 1970–71 | 1971–72 | 1972–73 | 1973-74 | 1974-75 |
|----------|---|---|---------------|---------|---------|---------|---------|---------|
| Imports— | | | | | | | | |
| Quantity | | | '000 kg | 6,995 | 8.939 | 3,830 | 8,401 | 4,021 |
| | • | • | | | -, | - , | . , | |
| Value . | • | • | \$'000 f.o.b. | 4,313 | 5,784 | 2,673 | 9,297 | 4,804 |
| Exports— | | | | | | | | |
| Quantity | | | '000 kg | 7,416 | 2,421 | 22,290 | 3,051 | 7,663 |
| | • | | | ., | | , | | |
| Value . | | _ | \$'000 f.o.b. | 3,431 | 1,555 | 11.347 | 1.927 | 5,362 |

⁽a) Excludes linters.

Japan and Hong Kong were the principal importing countries, taking 3,247,913 kg and 2,661,377 kg respectively in 1974–75.

LINSEED 779

Peanuts

Peanuts, or groundnuts, are a sub-tropical legume (and hence summer growers), the pods of which mature beneath the surface of the soil. They thus require well drained, light textured soils. At harvest the plant is pulled, wind-rowed, field-cured for two to four weeks, and then threshed to recover the pods. The main products of the industry are nuts, peanut oil and oil cake.

In Australia, peanuts for crushing for oil arise as a by-product in the production of nuts for edible purposes. The oil is used extensively as a cooking and salad oil and in the manufacture of margarine.

The production of peanuts in Australia is confined mainly to Queensland, although small quantities are grown in New South Wales, the Northern Territory and, in some years, Western Australia.

PEANUTS: AREA AND PRODUCTION

| | ('000 kg) | Production | | ares) | Area (hecto | | |
|----------|-----------|------------|-----------|--------|-------------|--|----------|
| Aus | Qld | N.S.W. | Aust. | Qld | N.S.W. | | Year |
| (a)31,12 | 30,846 | 262 | (a)38,584 | 38,403 | 158 | | 1970–71 |
| (a)46,06 | 45,774 | 242 | (a)33,752 | 33,485 | 227 | | 1971-72 |
| (a)38,49 | 37,992 | 504 | (a)29,136 | 28,787 | 336 | | 1972-73 |
| 29,20 | 29,119 | 86 | 25,932 | 25,724 | 18 | | 1973-74 |
| 31,96 | 31,323 | 494 | 24,131 | 23,742 | 204 | | 1974-75 |

⁽a) Incomplete; excludes Western Australia.

The gross value of the 1974–75 crop was \$12,006,000 which was approximately \$1,121,000 more than in 1973–74. Total supplies available for consumption in Australia in 1973–74 were 20,736 tonnes in shell equivalent. Exports of peanuts and peanut products for 1974–75 were 9.920 tonnes.

Linseed

The flax plant is a summer-growing annual. Varieties have been developed for the production of either fibre or linseed. Linseed, when crushed, yields an industrial oil used extensively in the manufacture of paint and linoleum. The introduction of synthetics into these fields has reduced the demand for linseed oil. Flax for the production of fibre was last recorded in 1964-65. Production of linseed during 1974-75 was 33,049 tonnes.

The main producing areas are the wheat belt of New South Wales, western and north-eastern districts of Victoria, the Esperance district of Western Australia, the Darling Downs in Queensland, and the south-eastern district of South Australia.

LINSEED: AREA AND PRODUCTION

| Year | | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Aust |
|--------------|-------|---------|---------|-----|------------|-------|--------|-------|--------|--------|
| Area (hectai | res) | i | | | | | | | | |
| 1970-71 | | | | | 20,538 | 6,830 | 3,556 | 281 | 10,421 | 41,626 |
| 1971–72 | | | | | 9,391 | 3,694 | 1,872 | 172 | 4,794 | 19,923 |
| 1972-73 | | | | | 6,762 | 5,843 | 2,907 | 534 | 254 | 16,300 |
| 1973-74 | | | | • | 10,508 | 4,336 | 1,852 | 829 | 252 | 17,777 |
| 1974–75 | | • | • | • | 18,237 | 4,924 | 8,543 | 3,165 | 693 | 35,562 |
| Production | (tonn | es of i | linseed | d)— | | | | | | |
| 1970-71 | • | | | • | 17,189 | 6,472 | 1,968 | 258 | 4,918 | 30,80 |
| 1971-72 | | | | | 3,713 | 3,388 | 1,301 | 92 | 1,735 | 10,229 |
| 1972-73 | | | | | 1,889 | 5,471 | 1,948 | 419 | 64 | 9,79 |
| 1973-74 | | | | | 7,200 | 4,668 | 1,504 | 829 | 123 | 14,32 |
| 1974-75 | • | - | | | 14,997 | 3,812 | 10,720 | 3,162 | 358 | 33,04 |

Hops

Hops are grown from perennial rootstocks over deep, well-drained soils in localities sheltered from the wind. The hop-bearing vine shoots are carried upon wire and coir trellises, from which they are later harvested. The green hops are kiln-dried and bleached with sulphur dioxide fumes, following which the cured hops are pressed into bales.

Hop growing in Australia is confined to the Derwent, Huon and Channel areas in the south-east, and the Scottsdale-Ringarooma district in the north-east of Tasmania, and the Ovens and King Valleys in Victoria. A small area is also under hops in Western Australia, near Manjimup, but details are not available for publication.

Production and imports of hops

The production of hops in Australia is adequate to meet local requirements, and in recent years small quantities have been exported. In the following table details of the production and imports of hops and the quantity of hops used in breweries are shown for recent years. Exports of hops are negligible and are not recorded separately.

| Quantity used in breweries | Net available supplies(b) | Imports | Production(a) | | Year |
|----------------------------------|---------------------------------|---------|---------------|------|---------|
| '000 kg | '000 kg | '000 kg | '000 kg | | |
| 1,761 | 1,724 | 18 | 1,706 | | 1970-71 |
| 1,553 | 1,867 | 20 | 1,847 | | 1971-72 |
| 1,294 | 2,150 | 37 | 2,113 | | 1972-73 |
| 1,335 | 2,880 | 16 | 2,864 | | 1973-74 |
| n.a | 2,270 | 20 | 2,270 | | 1974-75 |

⁽a) Excludes production in Western Australia.

Rapeseed

Rapeseed is obtained from several varieties of brassica, which are cultivated in temperate and warm temperate zones for their oil-producing seed.

The introduction of wheat quotas in Australia from 1970-71 to 1972-73 and the buoyant world market for oilseeds brought about an expansion of areas sown to rape in New South Wales, Western Australia, Victoria and South Australia.

Domestic production increased from 4,464 tonnes in 1969-70 to 54,614 tonnes in 1971-72 and 25,037 tonnes in 1972-73 but subsequently declined to 12,750 tonnes for 1973-74 and 8,533 tonnes in 1974-75 as a result of disease problems.

Rapeseed oil is used mainly as a salad and cooking oil with some minor amounts being utilised for industrial purposes. A protein meal is derived as a by-product in the crushing process.

Safflower

Safflower is best cultivated either in the warm temperate zones or as a winter crop in the tropical or sub-tropical regions, on moderately fertile, weed-free, clay or sandy loams. Adequate moisture is required up to the flowering stage, after which it is relatively drought resistant. The soil preparation and sowing techniques are similar to those employed for small grains; it is usually harvested by headers when the seed is hard and dry. The oil, produced by crushing, is used in the manufacture of margarine, soaps, paints, varnishes, enamels, and textiles.

⁽b) Disregards movements in stocks.

| SAFFLOWER: AREA | AND | PRODUCTION |
|-----------------|-----|------------|
|-----------------|-----|------------|

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|----------|---|---|--------|-------|--------|---------|--------|------|------|--------|-------------|
| | | | | | AREA | (HECTA | RES) | | | | |
| 1970–71 | | | 19,834 | 5,071 | 2,053 | 170 | 546 | | | | 27,674 |
| 1971-72 | | | 18,675 | 1,272 | 12,482 | 197 | 1,183 | | | • • | 33,809 |
| 1972–73 | | | 5,782 | 556 | 3,257 | 74 | 955 | | | | 10,624 |
| 1973–74. | | | 1,584 | 971 | 9,575 | 181 | 138 | | | | 12,449 |
| 1974–75. | ٠ | ٠ | 5,487 | 2,813 | 27,575 | 363 | (a) | • • | | •• | 36,238 |
| | | | | Р | RODUCT | TION (T | ONNES) | | | | |
| 1970–71 | • | | 8,291 | 1,569 | 371 | 83 | 142 | | | | 10,456 |
| 1971-72 | | | 10,592 | 722 | 3,462 | 81 | 541 | | | | 15,398 |
| 1972-73 | | | 1,538 | 328 | 2,126 | 46 | 135 | | | | 4,173 |
| 1973–74 | | | 320 | 520 | 5,928 | 82 | 10 | | | | 6,860 |
| 1974-75. | | | 2,005 | 1,269 | 26,949 | 279 | (a) | | | | 30,502 |

⁽a) Not available for publication.

Imports of crude safflower seed oil in 1973-74 and 1974-75 totalled 1,130 and 4,652 tonnes respectively. These imports came mainly from the United States of America.

Sunflower seed

Sunflowers are summer growing annuals produced mainly under raingrown conditions in the three eastern mainland States of Australia. The cultivation of sunflowers has developed rapidly in recent years to make it the major oilseed crop.

The seed for which the plant is cultivated yields a high quality dual purpose oil and a by-product protein meal used for stockfeed. Main uses for the oil are in the manufacture of margarine, as a salad and cooking oil, and for industrial purposes.

The introduction of wheat quotas and the development of high oil yielding varieties of sunflower seed resulted in an increase in Australian production from 13,248 tonnes in 1969-70 to a record 147.531 tonnes in 1971-72, Production in 1974-75 amounted to 113,375 tonnes.

Vegetables for human consumption

Area, production and trade

Because of the wide diversity of climatic conditions across Australia, supplies for main city markets are drawn from widely different areas, depending upon the times of maturity of the various crops. Apart from potatoes and onions, which are sold in some States through marketing boards, the bulk of vegetable trading takes place at the metropolitan markets of the cities concerned.

Details of the areas planted and production of individual kinds of vegetables are shown below. Certain particulars shown are incomplete in that details for specific vegetables in some States are either not available or are not available for publication. For further information see the bulletin Crop Statistics (10.58). Details of the estimated consumption of vegetables for a series of years are given in the chapter Miscellaneous.

| VEGETABLES FOR HUMAN CONSUM | TPTION: | AUSTRALIA |
|-----------------------------|---------|-----------|
|-----------------------------|---------|-----------|

| | 1972–73 | | 1973–74 | | 1974-75 | | |
|-------------------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--|
| Vegetable | Area sown | Pro- duction | Area sown | Pro- duction | Area sown | Pro- duction | |
| | hectares | tonnes | hectares | tonnes | hectares | tonnes | |
| Asparagus | 2,450 | 6,756 | 2,015 | 5,516 | 1,798 | 4,626 | |
| Beans, french and runner . | 7,512 | 35,533 | 8,312 | 40,226 | 8,601 | 40,862 | |
| Beetroot | 832 | 22,802 | 886 | 25,988 | 850 | 27,417 | |
| Cabbages and brussel sprouts. | 2,629 | 70,738 | 2,761 | 72,927 | 2,903 | 84,638 | |
| Carrots | 2,935 | 81,574 | 3,155 | 86,546 | 3,512 | 97,551 | |
| Cauliflowers | 2,568 | 77,829 | 2,464 | 72,804 | 2,495 | 71,901 | |
| Celery | 390 | 21,678 | 332 | 15,953 | 495 | 21,599 | |
| Cucumbers | 1,089 | 13,665 | 1,105 | 13,457 | 1,014 | 11,452 | |
| Lettuce | 2,183 | 36,419 | 2,294 | 35,751 | 1,978 | 32,555 | |
| Onions | 4,464 | 93,234 | 4,189 | 93,686 | 4,395 | 108,102 | |
| Parsnips | 436 | 9,117 | 447 | 8,128 | 457 | 8,739 | |
| Peas, green | 21,540 | 106,743 | 19,362 | 102,900 | 18,500 | 121,579 | |
| Potatoes | 36,607 | 720,704 | 34,113 | 649,197 | 37,626 | 735,975 | |
| Tomatoes | 7,656 | 177,522 | 7,082 | 135,647 | 7,868 | 168,933 | |
| Turnips, swede and white . | 803 | 10,308 | 591 | 7,159 | 747 | 9,252 | |
| All other | 16,852 | | 16,367 | | 17,315 | ٠. | |
| Total | 110,947 | | 105,475 | | 110,554 | | |

Processed vegetables

Total production of canned vegetables in 1974–75 amounted to 132,380,000 kg. The principal type produced were baked beans (including pork and beans), 23,917,000 kg; beetroot, 28,119,000 kg; green peas (excluding mint processed peas), 10,597,000 kg; tomatoes, 9,127,000 kg; asparagus, 3,588,000 kg; and sweet corn, 10,785,000 kg. Production of potato crisps, chips and flakes during 1974–75 was 16,073,000 kg.

There has been rapid development in the quick-frozen vegetable industry. In 1974–75 the production was 105,540,000 kg, of which 43,633,000 kg were peas, 26,760,000 kg were beans and 15,506,000 kg were potatoes.

Exports and imports of vegetables

Overseas exports of fresh and frozen vegetables during 1974–75 amounted to 34,053,733 kg valued at \$7,927,395; dried vegetables, 5,195,922 kg valued at \$1,524,851; perserved vegetables, 452,248 kg valued at \$339,884; and other prepared or preserved vegetables, 2,660,499 kg valued at \$1,606,482.

Imports of fresh and frozen vegetables during 1974-75 were valued at \$47,010,727.

Potatoes

This crop requires deep friable soils, which in Australia are usually basaltic, alluvial or swampy in origin. Fertiliser requirements, which are generally high, vary with the type of soil. While potatoes require only moderate temperatures for growth, the greatest proportion of Australia's potatoes are grown as a summer crop because potato plants are killed by heavy frosts. In recent years an increasing proportion of potatoes has been grown under irrigation and potato growing has become increasingly mechanised with individual growers having larger areas and becoming more specialised.

Seed certification schemes or approvals which operate in most States provide supplies of seed. In Australia potatoes are used almost entirely for human consumption or seed. Approximately 25 per cent of Australian potato consumption is in a processed form and this proportion is rising. The main processing potato products are crisps, frozen chips, dehydrated granule and flake, soup, baby foods, salads and canned potatoes.

| Aust | A.C.T. | N.T. | Tas. | W.A. | S.A. | Qld | Vic. | N.S.W. | | | Year |
|------------|--------|--------|--------|---------|--------|---------|---------|---------|---|---|---------|
| | | | | ARES) | (HECT | AREA | | | | | |
| 38,619 | 5 | 9 | 3,640 | 2,528 | 2,898 | 6,445 | 14,150 | 8,944 | | | 1970-71 |
| (b)40,40 | (a) | 11 | 3,593 | 2,684 | 2,775 | 7,365 | 13,986 | 9,987 | | | 1971-72 |
| (b)36,60° | (a) | 12 | 3,330 | 2,378 | 2,673 | 5,960 | 13,120 | 9,134 | | | 1972-73 |
| (b)34,11 | (a) | 12 | 3,127 | 2,242 | 2,477 | 5,279 | 12,474 | 8,502 | | | 1973-74 |
| (b)37,62 | (a) | (a) | 4,143 | 2,356 | 2,747 | 6,068 | 13,010 | 9,302 | • | | 1974–75 |
| | | | ES) | (TONNI | UCTION | PROD | | | | | |
| (b)774,304 | 46 | (a) | 72,591 | 69,150 | 72,526 | 110,403 | 303,900 | 145,688 | | | 1970–71 |
| (b)821,802 | (a) | 144 | 70,370 | 68,420 | 71,741 | 132,618 | 306,708 | 171,801 | | | 1971-72 |
| (b)720,704 | (a) | 198 | 78,286 | 63,282 | 69,483 | 92,164 | 286,990 | 130,301 | | | 1972–73 |
| (o)649,197 | (a) | 101 | 62,866 | 60,603 | 60,491 | 86,529 | 254,021 | 124,586 | | | 197374 |
| (b)735,975 | (a) | (a) | 95,610 | 61,479 | 70,849 | 107,587 | 282,547 | 117,903 | ٠ | • | 1974–75 |
| | | | NNES) | ARE (TO | R HECT | ELD PE | YII | | | | |
| (b)20.050 | 9.200 | (a) | 19.943 | 27.354 | 25.026 | 17.130 | 21.477 | 16.289 | | | 1970-71 |
| (b)20.34 | (a) | 13.091 | 19.585 | 25.492 | 25.853 | 18.007 | 21.930 | 17.202 | | | 1971-72 |
| (b)19.68 | (a) | 16.500 | 23.509 | 26.611 | 25.994 | 15.464 | 21.874 | 14.265 | | | 1972-73 |
| (b)19.03 | (a) | 8.417 | 20.104 | 27.031 | 24.421 | 16.391 | 20.364 | 14.654 | | | 1973–74 |
| (b)19.560 | (a) | (a) | 23.078 | 26.095 | 25.791 | 17.730 | 21.718 | 12.675 | | | 1974-75 |

(a) Not available for publication.

(b) Incomplete; see individual Territories.

The production of potatoes from 1945-46 is shown in plate 51, below.

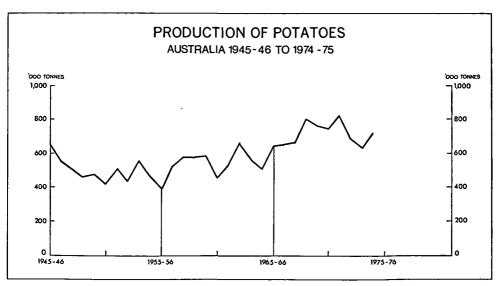


PLATE 51

Potato marketing. The majority of table potatoes are marketed through potato merchants and agents. In some instances they are marketed through a primary merchant and then a secondary merchant (wholesale). In South Australia and Western Australia potato marketing is controlled by potato marketing boards.

Overall, probably more than half of the potatoes used for processing are purchased by forward contract made directly by the processor with the grower. The remainder of the processors' requirements are usually purchased from merchants and in some instances merchants' contracts with growers as agents for processors. Seed potatoes are purchased either through a merchant or directly from a seed grower.

Consumption and export of potatoes. The annual consumption of potatoes in Australia during each of the three years 1971–72 to 1973–74 amounted to 758,900 tonnes, 635,900 tonnes and 571,200 tonnes respectively or 58.8 kg, 48.6 kg and 43.1 kg respectively per head of population. These figures exclude the quantities used for seed, which averaged about 42,600 tonnes annually over this period. Details showing exports and imports for recent years are given in the following table.

POTATOES: EXPORTS AND IMPORTS, AUSTRALIA

| | | | Exports | | Imports | | |
|---------|------|---|----------|--------|----------|--------|--|
| Year | | | Quantity | Value | Quantity | Value | |
| | | _ | | \$'000 | | \$'000 | |
| | | | tonnes | f.o.b. | tonnes | f.o.b. | |
| 1970-71 | | | 11,659 | 978 | | | |
| 1971-72 | | | 11,952 | 1,039 | | | |
| 1972-73 | | | 10,558 | 952 | | | |
| 1973-74 | | | 11,351 | 1,387 | 583 | 71 | |
| 1974-75 | | | 12,429 | 1,425 | | • • | |

Australia's principal markets are Papua New Guinea, Singapore, New Caledonia and Sri Lanka.

Fruit

The varieties of fruit grown differ in various parts of the States, ranging from pineapples, papaws and mangoes in the tropics to strawberries, raspberries and currants in the colder parts of the temperate zone. In New South Wales citrus fruit (oranges, lemons, etc.) and bananas are the principal crops, although apples, peaches, plums, pears and cherries are grown extensively. The principal fruits grown in Victoria are apples, pears, peaches, oranges, and apricots. In Queensland apples, pineapples, bananas, oranges, mandarins, peaches and plums are the major fruits cultivated. In South Australia, in addition to oranges, apples, peaches, apricots, and pears, almonds and olives are grown extensively. In Western Australia apples, oranges, plums, and pears are the chief fruits. In Tasmania apples are by far the most important type of fruit grown, but small fruit, such as currants, raspberries and gooseberries, are also grown extensively, the balance of the area being occupied mainly with pears and apricots.

Area and production of fruit

The total area under fruit in Australia in 1974–75 was 102,760 hectares, 18.3 per cent less than the record area established in 1965–66.

FRUIT (EXCLUDING GRAPEVINES): AREA(a) (hectares)

| Year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|--------|--------|--------|--------|-------|-------|------|--------|---------|
| | | | | | | | | | |
| 1970–71 | 37,448 | 26,958 | 22,157 | 18,333 | 9,627 | 8,432 | 49 | 15 | 123,019 |
| 1971-72 | 39,215 | 27,206 | 22,424 | 17,190 | 9,129 | 7,822 | 88 | 14 | 123,088 |
| 1972-73 | 34,887 | 25,785 | 22,111 | 16,730 | 8,680 | 7,223 | 70 | 14 | 115,500 |
| 1973-74 | 33,679 | 23,066 | 21,113 | 16,906 | 7,966 | 5,996 | 62 | 15 | 108,803 |
| 1974–75 | 31,597 | 21,784 | 20,149 | 16,620 | 7,822 | 4,748 | 23 | 18 | 102,760 |

(a) Bearing and not bearing.

FRUIT

ORCHARD FRUIT (INCLUDING EDIBLE TREE NUTS), TOTAL NUMBER OF TREES 1974-75 ('000)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------------------|---------|-------|-------|-------|-------|-------|------|--------|----------|
| Citrus- | | | | | | | | | |
| Oranges— | | | | | | | | | |
| Navel . | . 888 | 249 | 91 | 562 | 123 | | | | 1,913 |
| Valencia . | . 1,476 | 411 | 97 | 887 | 195 | | | | 3,065 |
| Other . | . 31 | 8 | 43 | 13 | 2 | | | | 97 |
| Total oranges | . 2,395 | 668 | 231 | 1,461 | 320 | • • | 1 | • • | 5,076 |
| Lemons and limes | . 361 | 131 | 39 | 128 | 45 | | | | 705 |
| Mandarins . | . 153 | 58 | 226 | 79 | 54 | | | | 570 |
| Grapefruit . | . 146 | 73 | 25 | 79 | 16 | | | | 339 |
| Pome— | | | | | | | | | |
| Apples | . 1,356 | 1,363 | 1,121 | 591 | 1,042 | 1,525 | | 5 | 7,004 |
| Pears | . 205 | 1,587 | 108 | 178 | 90 | 79 | | (a) | (b)2,246 |
| Quinces . | . 1 | 4 | (a) | 2 | | | | | (b)8 |
| Stone- | | | | | | | | | |
| Apricots . | . 101 | 241 | 43 | 420 | 16 | 34 | | | 855 |
| Cherries . | . 330 | 156 | 1 | 65 | 8 | 7 | | | 567 |
| Nectarines . | . 38 | 47 | 45 | 26 | 9 | 2 | | | 167 |
| Peaches . | . 494 | 886 | 135 | 359 | 64 | 3 | | (a) | (b)1,940 |
| Plums and prunes | . 440 | 140 | 141 | 74 | 80 | 3 | | (a) | (b)879 |
| Other orchard n.e.i | _ | | | | | | | | |
| Custard apples | . 1 | | 16 | | (a) | | (a) | | (b)16 |
| Figs | . 2 | 1 | (a) | 6 | 1 | | | | (b)9 |
| Mangoes . | | | 53 | | 1 | | | | 54 |
| Olives | . 13 | 111 | | 63 | 14 | | | | 200 |
| Nuts- | | | | | | | | | |
| Almonds . | . 2 | 109 | | 716 | 1 | | | | 827 |
| Macadamia . | . 63 | | 141 | | | | | | 204 |
| Walnuts . | . 1 | 8 | | 6 | 2 | , . | | | 17 |

(a) Not available for publication.

(b) Incomplete; see footnotes to individual States.

ORCHARD FRUIT (INCLUDING EDIBLE TREE NUTS), PRODUCTION 1974-75 (Tonnes)

| | N.S | w | Vic. | Qld | S.A. | W.A. | Tas. | NT | A.C.T. | Aust. |
|---------------------|-------|-------|---------|--------|---------|--------|--------|-----|--------|-----------|
| | 77.5 | | | | | | 1 (13) | | | |
| Citrus— | | | | | | | | | | |
| Oranges— | | | | | | | | | | |
| Navel . | . 49 | ,210 | 14,594 | 9,236 | 50,307 | 2,730 | | (a) | (| b)126,077 |
| Valencia . | . 93 | 3,673 | 25,514 | 8,934 | 75,325 | 5,328 | | (a) | (| b)208,774 |
| Other | . 1 | ,422 | 579 | 3,095 | 821 | 42 | | | | 5,959 |
| Total oranges | . 144 | ,306 | 40,687 | 21,265 | 126,456 | 8,099 | | 26 | | 340,839 |
| Lemons and limes | . 15 | ,392 | 5,667 | 3,980 | 7,360 | 2,460 | | 12 | | 34,871 |
| Mandarins . | . 5 | ,298 | 2,762 | 13,550 | 3,371 | 1,152 | | 4 | | 26,137 |
| Grapefruit . | . 6 | ,309 | 3,561 | 1,842 | 5,692 | 366 | | 11 | | 17,781 |
| Pome— | | | - | | | | | | | |
| Apples | . 76 | ,638 | 82,238 | 38,344 | 23,181 | 52,023 | 95,502 | | 48 | 367,974 |
| Pears | . 9 | ,580 | 125,498 | 3,365 | 11,380 | 4,930 | 3,220 | | (a)(| b)157,973 |
| Quinces . | | 26 | 143 | (a) | 117 | 2 | 4 | | | (b)292 |
| Stone— | | | | . , | | | | | | |
| Apricots . | . 4 | ,294 | 8,950 | 788 | 12,535 | 478 | 292 | | | 27,337 |
| Cherries . | . 5 | ,438 | 3,504 | 6 | 779 | 31 | 45 | | | 9,803 |
| Nectarines . | . 1 | ,007 | 820 | 623 | 958 | 300 | 29 | | | 3,737 |
| Peaches . | . 25 | ,262 | 38,444 | 1,933 | 22,671 | 2,163 | 34 | | | 90,507 |
| Plums and prunes | 11 | ,651 | 3,276 | 2,789 | 1,392 | 3,931 | 133 | | | 23,172 |
| Other orchard n.e.i | _ | | | | | | | | | |
| ·Custard apples | | 1 | | 220 | | | | (a) | | (b)221 |
| Figs | | 192 | 25 | (a) | 145 | 9 | | | | (b)371 |
| Mangoes . | | 11 | | 1,139 | | 8 | | 32 | | 1,190 |
| Olives | | 460 | 1,120 | | 737 | 204 | | | | 2,521 |
| Nuts- | | | | | | | | | | |
| Almonds . | | 2 | 15 | | 996 | | | | | 1,013 |
| Macadamia . | | 28 | | 123 | | | | | | 150 |
| Walnuts . | | 1 | 71 | | 11 | 6 | | | | 88 |
| | | | | | | | | | | |

RURAL INDUSTRY

BERRY AND OTHER FRUITS (EXCLUDING GRAPEVINES) 1974-75

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-----------------------|------|---------|--------|---------|-------|-------|-------|-------|--------|-------------------|
| то | TAL | AREA BE | EARING | AND N | OT BE | ARINO | (HEC | rares |) | |
| Small and berry fruit | _ | | | | | | | | | |
| Currants (black, re- | d) . | | | | (a) | | 324 | | | (b)324 |
| Raspberries . | | | 35 | | 4 | | 190 | | | 229 |
| Strawberries . | | 49 | 153 | 70 | 69 | 13 | 18 | | | 372 |
| Other | | 11 | 66 | 24 | 7 | 3 | 47 | | | 158 |
| Other fruit— | | | | | | | | | | |
| Bananas | | 5.676 | | 2,109 | | 186 | | 11 | | 7,982 |
| Papaws | | 12 | | 273 | | | | (a) | | (b)285 |
| Passionfruit . | | 73 | 20 | 252 | | 29 | | | | 374 |
| Pineapples | | 35 | | 5,816 | •• | (a) | | (a) | • • | (<i>b</i>)5,851 |
| | | | PROD | UCTION | (TON | NES) | | | | |
| Small and berry fruit | | | | | | | | | | |
| Currants (black, re | d) . | | | | (a) | | 1,086 | | | (b)1,086 |
| Raspberries . | | | 114 | | 15 | | 1,216 | | | 1,345 |
| Strawberries . | | 328 | 1,138 | 756 | 520 | 188 | 94 | | | 3,024 |
| Other fruit— | | | | | | | | | | |
| Bananas | | 80,847 | | 31,621 | | 5,720 | | 138 | | 118,326 |
| Papaws | | 28 | | 2,348 | | | | (a) | | (b)2,376 |
| Passionfruit . | | 357 | 25 | 3,005 | | 96 | | | | 3,483 |
| Pineapples | | 333 | | 110,118 | | (a) | | 3 | | (b)110,454 |

⁽a) Not available for publication.

Principal fruit crops

PRINCIPAL FRUIT CROPS: PRODUCTION AND GROSS VALUE OF PRODUCTION, AUSTRALIA

| Year | | Apples | Apricots | Bananas | Oranges | Peaches | Pears | Pineapples | Plums and prunes |
|-------------------|---|--------|----------|---------|------------|-------------|--------|------------|------------------|
| | | | PR | ODUCTIO | N ('000 TC | ONNES) | | | |
| 1970-71 . | | 443 | 53 | 133 | 322 | 123 | 188 | 118 | 31 |
| 1971–72 . | | 360 | 47 | 128 | 291 | 120 | 186 | 128 | 24 |
| 1972–73 . | | 431 | 44 | 124 | 352 | 116 | 190 | 126 | 27 |
| 1973–74 . | | | 37 | 125 | 310 | 81 | 162 | 115 | 23 |
| 1974–75 . ———— | • | 368 | 27 | 118 | 341 | 91 | 158 | 110 | |
| | | | GROSS V | ALUE OF | PRODUC | TION (\$'00 | 00) | | |
| 1970-71 . | | 58,339 | 9,392 | 20,033 | 33,030 | 15,760 | 20,855 | 9,722 | 6,360 |
| 1971–72 . | | 50,310 | 7,764 | 20,958 | 30,423 | 15,876 | 19,448 | 9,629 | 5,228 |
| 1972–73 . | | 63,483 | 9,170 | 28,217 | 33,556 | 17,678 | 23,942 | | 5,974 |
| 1973–74 . | | 63,733 | 9,141 | 21,878 | 33,661 | 14,494 | 24,938 | 11,028 | 7,031 |
| 1974–75 . | | 73,617 | 9,032 | 31,323 | 43,301 | 24,199 | 26,199 | 11,914 | 8,463 |

⁽b) Incomplete; see individual States.

FRUIT 787

Production and consumption of jams and jellies and preserved fruit

During 1974-75 output of jams, conserves, fruit spreads, etc., amounted to 30,285,000 kg, while output of preserved fruit amounted to 240,784,000 kg. Of the latter figure, peaches accounted for 72,094,000 kg, pears 53,342,000 kg, pineapples 31,344,000 kg and mixed fruits 42,228,000 kg.

Details of the estimated consumption of fruit and fruit products for a series of years are shown in the chapter, Miscellaneous.

Imports and exports of fruit and fruit products

The imports of fresh fruit into Australia are negligible, while those of dried fruit consist mainly of dates, approximately 90 per cent of which are obtained from Iraq and Iran, the bulk of the remainder coming from the United States of America and China (excluding Taiwan Province). A considerable export trade in fresh and chilled, and dried fruit is carried on by Australia with overseas countries. The values of the shipments in 1974–75 amounted to \$28,899,000 for fresh and chilled fruit, and \$21,405,000 for dried fruit. Apples constitute over half of the fresh fruit exported, although exports of pears and citrus fruits are considerable.

| FRESH AND | CHILLED | FRUIT: | EXPORTS. | AUSTRALIA |
|-----------|---------|--------|----------|-----------|
|-----------|---------|--------|----------|-----------|

| Total | | Citrus | | Pears | Apples | | | | |
|----------|--------|----------|--------|----------|--------|----------|--|------|---------|
| value(a) | Value | Quantity | Value | Quantity | Value | Quantity | | Year | |
| \$'000 | \$'000 | '000 kg | \$'000 | '000 kg | \$'000 | '000 kg | | | |
| f.o.b | f.o.b. | | f.o.b. | | f.o.b. | | | | |
| 32,971 | 3,721 | 26,998 | 6,411 | 34,486 | 21,881 | 142,073 | | | 1970–71 |
| 28,680 | 4,824 | 34,712 | 6,969 | 34,434 | 15,889 | 98,326 | | | 1971-72 |
| 32,929 | 4,682 | 32,554 | 9,141 | 42,309 | 18,016 | 116.974 | | | 1972-73 |
| 32,956 | 4,395 | 46,624 | 7,665 | 36,694 | 20,076 | 124,789 | | | 1973-74 |
| 28,900 | 3,286 | 15,362 | 8,200 | 28,063 | 16,085 | 78,548 | | | 1974-75 |

⁽a) Includes exports of all other fresh and chilled fruit.

The quantity and value of overseas imports and exports of dried fruit, other than sultanas, raisins and currants, are shown below.

DRIED TREE FRUIT(a): IMPORTS AND EXPORTS, AUSTRALIA

| | | | | | Imports | | Exports | |
|---------|--|---|--|--|----------|------------------|----------|------------------|
| Year | | | | | Quantity | Value | Quantity | Value |
| | | | | | '000 kg | \$'000 f.o.b. | '000 kg | \$'000 f.o.b. |
| 1970-71 | | | | | 3,906 | 989 | 2,281 | 1,537 |
| 1971-72 | | · | | | 3,830 | 1,046 | 3,422 | 2,208 |
| 1972-73 | | | | | 4,897 | 1,165 | 2,917 | 2,313 |
| 1973-74 | | | | | 4,701 | 1,273 | 1,944 | 2,119 |
| 1974-75 | | | | | 4,980 | 2,336 | 899 | 1,284 |

⁽a) Excludes sultanas, raisins and currants dealt with separately under Vineyards (see below).

Exports of jams and jellies in 1974–75 were 2,844,000 kg valued at \$1,522,000, compared with 4,698,000 kg, valued at \$1,556,000 in 1973–74. Imports of jams and jellies in 1974–75 were 2,088,000 kg, valued at \$1,205,000, compared with 2,022,000 kg, valued at \$848,000 in 1973–74.

| EXPORTS OF | CANNED | OR | ROTTLED | FRUIT: | AUSTRALIA |
|------------|--------|----|---------|--------|-----------|
|------------|--------|----|---------|--------|-----------|

| | Peaches | | Pears | | Fruit salad | | Apricots | | Total |
|---------|----------|--------|----------|--------|-------------|--------|----------|--------|----------|
| Year | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Value(a) |
| | '000 kg | \$'000 | '000 kg | \$'000 | '000 kg | \$'000 | '000 kg | \$,000 | \$'000 |
| | | f.o.b. | • | f.o.b. | Ŭ | f.o.b. | • | f.o.b. | f.o.b. |
| 1970-71 | 49,986 | 13,971 | 51,377 | 14,380 | 21,377 | 7,201 | 6,697 | 1,924 | 42,891 |
| 1971-72 | 47,729 | 13,202 | 37,825 | 10,809 | 18,159 | 6,337 | 5,470 | 1,623 | 36,462 |
| 1972-73 | 69,112 | 18,638 | 53,386 | 15,499 | 19,855 | 6,845 | 6.843 | 2,102 | 48,223 |
| 1973-74 | 69,312 | 16,832 | 62,965 | 15,395 | 19,827 | 5,959 | 7,132 | 1,842 | 44,542 |
| 1974-75 | 25,351 | 9,743 | 32,323 | 11,949 | 12,245 | 5,714 | 3,485 | 1,464 | 33,581 |

(a) Includes exports of all other canned or bottled fruit.

Exports of pulped fruit during 1974-75 amounted to 251,000 kg valued at \$120,000.

The total value of preserved fruit and fruit preparations (including fruit juices) imported into Australia during 1974–75 was \$6,565,000. The value of exports of fruits juices in 1974–75 was \$2,951,000.

Vineyards

Grapes require a warm to hot climate and a predominantly winter rainfall. Freedom from late spring frosts is essential. They are grown for wine-making, drying and, to a minor extent, for table use. In Australia, wine is produced very largely from irrigated crops, as are dried fruits. Some of the better known wine producing areas are the Murray Valley (South Australia and Victoria), Barossa Valley and Southern Vales Areas (South Australia), the Murrumbidgee Irrigation Areas and the Hunter Valley (New South Wales), the Mildura, Rutherglen and Stawell districts of Victoria, and the Swan Valley (Western Australia). Nearly all the dried fruit is produced along the River Murray and its tributaries, with small localised areas in other States.

Area of vineyards

The area under vineyards in the 1974-75 season in Victoria and South Australia constituted 74 per cent of the total area of the vineyards.

VINEYARDS: AREA(a) (Hectares)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Aust. |
|---------|---|--------|--------|-------|--------|-------|--------|
| 197071 | • | 11,247 | 20,612 | 1,556 | 27,653 | 2,714 | 63,782 |
| 1971-72 | | 12,956 | 20,794 | 1,571 | 28,769 | 2,727 | 66,817 |
| 1972-73 | | 13,275 | 21,618 | 1.560 | 29,528 | 2,566 | 68,547 |
| 1973-74 | | 14,719 | 21,594 | 1,594 | 29,602 | 2,479 | 69,988 |
| 1974-75 | | 14,463 | 22,348 | 1,537 | 30,366 | 2,602 | 71,316 |

(a) Bearing and not bearing.

Wine industry

Australia produces wine of every type and also brandy. In recent years there has been a distinct trend towards greater consumption and production of unfortified or table wines. Until 1957-58 production of these wines (which include burgundy, claret, riesling, sauterne, and sparkling wines) was less than half that of the fortified varieties (sherries, ports, etc.). By 1968-69 production of table wines had exceeded the volume of fortified varieties and in 1974-75, production of unfortified wines exceeded fortified wines by 98 million litres.

Production and consumption of wine and brandy

In 1974-75 the total production of wine (beverage and distillation) in Australia was 361.2 million litres, while total consumption of beverage wine was 168.0 million litres (12.5 litres per head of population). Similar particulars for 1973-74 were 294.7 million litres and 148.1 million litres (11.2 litres per head of population) respectively.

WINE: PRODUCTION(a) ('000 litres)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Aust.(b) |
|---------|--|--------|--------|-----|---------|------|----------|
| 1970–71 | | 46,409 | 30,079 | (c) | 173,899 | (c) | 254,965 |
| 1971-72 | | 66,545 | 35,835 | (c) | 183,276 | (c) | 290,239 |
| 1972-73 | | 61,580 | 25,840 | (c) | 188,315 | (c) | 279,943 |
| 1973-74 | | 76,541 | 46,089 | (c) | 167,611 | (c) | 294,666 |
| 1974–75 | | 74,314 | 54,278 | (c) | 227,861 | (c) | 361,177 |

⁽a) Beverage and distillation wine.

BRANDY: PRODUCTION, SOUTH AUSTRALIA AND AUSTRALIA

('000 litres alcohol)

| Year | | | S.A. | Aust.(a) |
|-----------|--|--|-------|----------|
| 1970-71 . | | | 3,496 | 3,849 |
| 1971-72 . | | | 3,840 | 4,485 |
| 1972-73 . | | | 3,064 | 3,589 |
| 1973-74 . | | | 1,871 | 2,152 |

⁽a) Includes New South Wales and Victoria, for which separate details are not available for publication.

Exports and imports of wine and brandy

Principal markets for exports of Australian wine are the United Kingdom, Canada and New Zealand. During 1974-75 these countries received 832,000 litres, 2,201,000 litres and 801,000 litres respectively. Exports of Australian-produced wine and imports of wine for recent years are shown in the following table.

WINE: EXPORTS AND IMPORTS, AUSTRALIA

| | | | | Quantity | | | Value f.o.b. | | |
|-----------------|---|---|---|-------------------------------|---------------------------|---------------------------|-----------------------|-------------------|-------------------|
| Year | | | | Sparkling ('000 litres) | Other ('000 litres) | Total ('000 litres) | Sparkling (\$'000) | Other (\$'000) | Total (\$'000) |
| | | | | | EXPOR | tTS | | | |
| 1970–71 | | | | 395 | 6,169 | 6,564 | 391 | 3,188 | 3,579 |
| 1971-72 | | | | 386 | 7,587 | 7,973 | 401 | 3,844 | 4,245 |
| 1972-73 | | | | 547 | 4,110 | 4,657 | 550 | 2,670 | 3,220 |
| 1973–74 | | | | 511 | 7,667 | 8,178 | 537 | 5,104 | 5,641 |
| 1974–75 –——— | • | ٠ | · | 392 | 6,154 | 6,546 | 476 | 4,867 | 5,343 |
| - | | | | | IMPOR | TS | | | |
| 1970–71 | | | | 536 | 1,850 | 2,386 | 780 | 1,801 | 2,581 |
| 1971-72 | | | | 555 | 1,927 | 2,482 | 781 | 2,070 | 2,851 |
| 1972-73 | | | | 672 | 2,237 | 2,909 | 1,002 | 2,523 | 3,525 |
| 1973–74 | | | | 1,211 | 3,098 | 4,309 | 2,058 | 3,472 | 5,530 |
| 1974–75 | | | | 1,286 | 4,009 | 5,295 | 1,747 | 4,728 | 6,475 |

⁽b) Includes Tasmania.

⁽c) Not available for publication.

During 1974-75 Italy supplied 1,958,000 litres valued at \$1,989,000, Portugal 1,295,000 litres valued at \$1,261,000 and the Federal Republic of Germany 996,000 litres valued at \$1,431,000.

Exports of Australian-produced brandy in 1974-75 amounted to 217,000 litres alcohol, valued at \$389,000. Imports of brandy, mainly from France, amounted to 701,000 litres alcohol, valued at \$1,984,000.

Dried vine fruit industries

The dry period from November to March in the lower Murray valley makes this an ideal area for dried vine fruit. Harvesting for drying takes place at the end of summer. The sun-drying process is often accelerated by using a dip of cold potash.

In June 1963, Australian, Greek and Turkish dried vine fruit interests concluded an agreement to maintain minimum prices for sultanas on world markets. The agreement has been periodically reviewed. At the Ninth Conference in London in June 1971, representatives of the signatory countries (which had included South Africa from 1970) met for the last time as parties to the agreement and formally resolved it out of existence. Since the International Sultana Agreement was terminated in 1971 a Conference of Sultana (Raisin) Producing Countries has been held annually to maintain a high level of co-operation between the major producing countries.

DRIED VINE FRUIT: PRODUCTION

(Tonnes)

| | | | N.S.W. | | Vic. | | S.A. | | W.A. | | Aust. | |
|---------|--|--|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
| Year | | | Raisins (a) | Cur- rants |
| 1970–71 | | | 9,389 | 640 | 41,237 | 3,083 | 1,334 | 3,201 | 29 | 1,513 | 51,989 | 8,437 |
| 1971-72 | | | 15,182 | 583 | 71,521 | 3,244 | 8,551 | 3,098 | 37 | 1,232 | 95,291 | 8,153 |
| 1972-73 | | | 7,443 | 373 | 40,158 | 2,323 | 3,712 | 2,026 | 36 | 936 | 51,349 | 5,658 |
| 1973-74 | | | 8,016 | 287 | 33,645 | 1,255 | 2,109 | 1,041 | 31 | 1,032 | 43,801 | 3,615 |
| 1974-75 | | | 8,098 | 383 | 48,040 | 2,347 | 2,414 | 2,370 | 31 | 1,217 | 58,583 | 6,317 |

(a) Includes sultanas and lexias.

DRIED VINE FRUIT(a): EXPORTS, AUSTRALIA

| | | Raisins, sulta lexias | inas and | Currants | | Total | | |
|---------|--|--------------------------|-----------------|----------|-----------------|----------|-----------------|--|
| Year | | Quantity | Value f.o.b. | Quantity | Value f.o.b. | Quantity | Value f.o.b. | |
| | | tonnes | \$'000 | tonnes | \$'000 | tonnes | \$'000 | |
| 1970-71 | | 55,663 | 17,140 | 4,261 | 1,322 | 59,924 | 18,462 | |
| 1971-72 | | 51,678 | 16,120 | 4,590 | 1,378 | 56,268 | 17,498 | |
| 1972-73 | | 69,974 | 25,213 | 2,617 | 897 | 72,591 | 26,110 | |
| 1973-74 | | 27,020 | 17,172 | 1,399 | 698 | 28,419 | 17,870 | |
| 1974-75 | | 31,554 | 20,008 | 172 | 114 | 31,726 | 20,122 | |

(a) Excludes quantities exported as mincemeat.

The chief countries importing Australian dried vine fruits are the United Kingdom, Canada, New Zealand and the Federal Republic of Germany. The quantities exported to these countries in 1974-75 were 6,034 tonnes, 9,895 tonnes, 4,234 tonnes and 3,362 tonnes respectively.

Table grapes

Grapes for table use are grown in all States except Tasmania, but the area of this type was only about 3 per cent of the productive area of vines in 1974–75.

LIVESTOCK AND LIVESTOCK PRODUCTS

Livestock numbers

A detailed account of the various enumerations of livestock in Australia made prior to 1860 was given on page 748 of Year Book No. 35. Since 1861 annual enumerations have been made, based, with few exceptions, on actual collections made through the agency of the State police or by post. Particulars concerning the numbers of each of the principal kinds of livestock in Australia at decennial intervals from 1861 to 1971, and from 1973 onwards in single years, are given in the following table, and are shown continuously since 1880 on the graph on plate 52, page 793.

LIVESTOCK: AUSTRALIA, 1861 TO 1976 ('000)

| Year | Horses | Cattle | Sheep | Pigs | Year | Horses | Cattle | Sheep | Pigs |
|------|--------|--------|---------|-------|-------|-----------|--------|---------|-------|
| 1861 | 432 | 3,958 | 20,135 | 351 | 1941 | 1,666 | 13,256 | 122,694 | 1,797 |
| 1871 | 717 | 4,276 | 41,594 | 543 | 1951 | 999 | 15,229 | 115,596 | 1,134 |
| 1881 | 1,069 | 7,527 | 62,184 | 816 | 1961 | 598 | 17,332 | 152,679 | 1,615 |
| 1891 | 1,522 | 10,300 | 97,881 | 891 | 1971 | n.a. | 24,373 | 177,792 | 2,590 |
| 1901 | 1,610 | 8,640 | 70,603 | 950 | 1973 | n.a. | 29,101 | 140,029 | 3,259 |
| 1911 | 2,166 | 11,745 | 98,066 | 1,026 | 1974 | n.a. | 30,839 | 145,175 | 2,505 |
| 1921 | 2,416 | 13,500 | 81,796 | 764 | 1975 | n.a. | 32,793 | 151,652 | 2,197 |
| 1931 | 1,793 | 11,721 | 110.568 | 1,072 | 1976p | n.a. | 33,434 | 148,643 | 2,173 |

While livestock numbers (particularly sheep) have increased substantially since 1861, marked fluctuations have taken place during the period, mainly on account of widespread droughts which have from time to time left their impressions on the pastoral history of Australia. These occurred in 1868, 1877, 1883-84, 1892, 1893, 1895, 1901-2, 1912, 1914, 1918, 1919, 1922-23,1925-26, 1927-28, 1929-30, 1940-41, 1944-45 to 1946-47, and 1965-67. The years in which the numbers of livestock attained their peaks are as follows: horses, 1919 (2,527,000); cattle, 1976 (33,434,000); sheep, 1970 (180,080,000); and pigs, 1973 (3,259,000).

The distribution throughout Australia of sheep, beef cattle, dairy cattle and pigs at 31 March 1963 is shown in the maps on pages 1049 and 1050 and facing pages 1082 and 1083 of Year Book No. 50.

Sheep

Distribution throughout Australia

With the exception of a short period in the early eighteen-sixties, when the flocks in Victoria outnumbered those of New South Wales, the latter State has occupied the premier position in sheep-raising. Western Australia is the second largest sheep raising State followed by Victoria. Sheep numbers reached a peak in Australia in 1970. They then declined up to March 1973 as producers turned off large numbers for slaughter and moved from wool-growing towards beef production; by 1976, however, the numbers had increased to 148,642,000.

A map showing the distribution of sheep in Australia at 31 March 1963 appears on page 1049 of Year Book No. 50. Graphs showing the number of sheep in Australia from 1880 onwards appear on plates 52 and 53 of this Year Book (pages 793 and 795).

NUMBER OF SHEEP ('000)

| At 31 March | | N.S.W. | | N.S.W. Vic. | | Qld S.A. | | W.A. Tas. | | N.T. A.C.T. | | |
|-------------|---|--------|--|-------------|--------|----------|--------|-----------|-------|-------------|-----|---------|
| 1972 | | | | 62,000 | 29,496 | 14.604 | 17.970 | 34,405 | 4,237 | 7 | 192 | 162,910 |
| 1973 | | | | 52,037 | 24,105 | 13,346 | 15,651 | 30,919 | 3,824 | 3 | 143 | 140,029 |
| 1974 | | | | 53,296 | 25,787 | 13,119 | 16.431 | 32,451 | 3,964 | 1 | 126 | 145,175 |
| 1975 | | | | 54,983 | 26,410 | 13,908 | 17,621 | 34,476 | 4,136 | 1 | 117 | 151,652 |
| 1976 | • | | | 53,200 | 25,395 | 13,599 | 17,279 | 34,771 | 4,249 | 1 | 148 | 148,643 |

The percentage distribution of sheep and lambs in the several States in 1976 was: New South Wales, 36; Victoria, 17; Queensland, 9; South Australia, 12; Western Australia, 23; and Tasmania, 3.

Movement in sheep numbers

SHEEP AND LAMBS: ANALYSIS OF MOVEMENT IN NUMBERS, AUSTRALIA ('000)

| Year ended 31 March | | | Numbers at beginning of season | Lambs marked | Net exports | Sheep and lambs slaughtered (a) | Estimated deaths on farms (b) | Numbers at close of season | |
|------------------------|--|--|---|-----------------|----------------|--|--|----------------------------------|--|
| 1972 . | | | 177,792 | 51,705 | 807 | 52,198 | 13,582 | 162,910 | |
| 1973 . | | | 162,910 | 39,787 | 1,135 | 46,960 | 14,573 | 140,029 | |
| 1974 | | | 140,029 | 42,962 | 1,060 | 26,541 | 10,215 | 145,175 | |
| 1975 | | | 145,175 | 46,232 | 1,350 | 26,618 | 11,789 | 151,652 | |
| 1976p | | | 151,652 | 44,122 | 1,778 | 31,268 | 14,085 | 148,643 | |

⁽a) Includes an estimate for numbers boiled down.

Comparisons of Australian flock numbers with those of certain other principal sheep-producing countries are given on page 800.

Classification of sheep according to age, sex, and breed

SHEEP, BY AGE AND SEX: AUSTRALIA ('000)

| | 31 March | | | | |
|------------------------------------|----------|---------|---------|---------|---------|
| Description | 1972 | 1973 | 1974 | 1975 | 1976p |
| Rams (1 year and over) | 2,060 | 1,844 | 1,820 | 1,895 | 1,870 |
| Breeding ewes (1 year and over) . | 75,611 | 68,687 | 70,035 | 70,647 | 68,471 |
| Other ewes (1 year and over) | 9,089 | 6,688 | 5,807 | 7,035 | 7,692 |
| Wethers (1 year and over) | 39,777 | 34,660 | 34,592 | 37,055 | 37,534 |
| Lambs and hoggets (under 1 year) . | 36,374 | 28,149 | 32,921 | 35,020 | 33,077 |
| Total sheep and lambs | 162,910 | 140,029 | 145,175 | 151,652 | 148,643 |

Particulars of the principal breeds of sheep at 31 March 1974 (details are collected on a triennial basis) are shown in the following table.

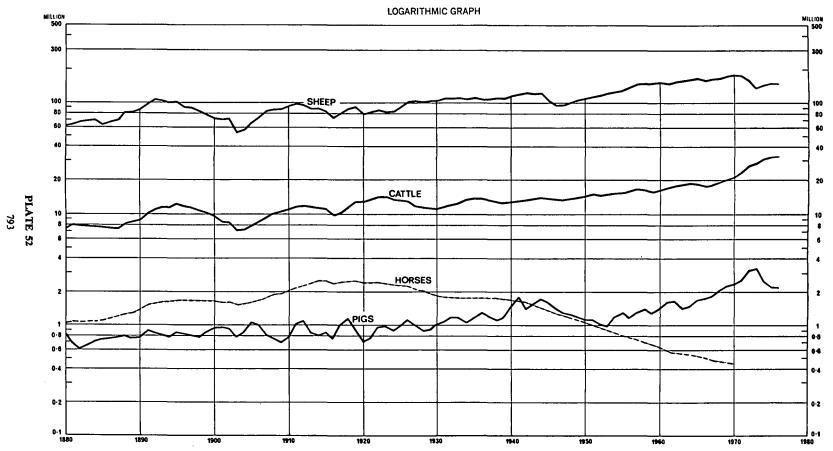
BREEDS OF SHEEP: 31 MARCH 1974 ('000)

| Breed | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------------------------|--------|--------|--------|--------|--------|-------|------|--------|---------|
| Merino Other recognised | 39,765 | 12,256 | 12,898 | 14,212 | 30,337 | 424 | 1 | 105 | 109,997 |
| breeds | 5,809 | 5,111 | 86 | 936 | 1,260 | 2,540 | 1 | 6 | 15,748 |
| Merino comeback(a) | 1,103 | 1,888 | 16 | 134 | 252 | 588 | | | 3,982 |
| Crossbreds(b) . | 6,619 | 6,533 | 119 | 1,149 | 602 | 411 | • • | 15 | 15,449 |
| Total . | 53,296 | 25,787 | 13,119 | 16,431 | 32,451 | 3,964 | 1 | 126 | 145,175 |

⁽a) Merino comeback is the progeny of a crossbred Merino ewe and a Merino ram, i.e. finer than half-bred. (b) Half-bred and coarser.

⁽b) Balance figure; excludes lambs which died before marking.

LIVESTOCK: AUSTRALIA, 1880 TO 1976



NOTE. VERTICAL SCALE IS LOGARITHMIC, AND THE CURVES RISE AND FALL ACCORDING TO RATE OF INCREASE OR DECREASE; ACTUAL MUMBERS ARE INDICATED BY SCALE.
FIGURES FOR HORSES MAYE NOT BEEN COLLECTED SINCE 1970

Wool

With about one-seventh of the world's woolled sheep, Australia produces about one-third of the world's wool and more than half the world's fine-quality Merino wool. More than 90 per cent of the production is exported, mainly as greasy wool, although substantial amounts of scoured and carbonised wool, wool on sheep skins and small quantities of semi-manufactured wool are also shipped. The important position held by Australia among the principal sheep and wool producing countries of the world is shown in the table on page 800.

Wool production

Wool as shorn from the sheep contains an appreciable amount of grease, dirt and other extraneous matter, and is termed 'greasy wool'. The quantity of grease and other matter in a fleece differs not only between countries, but between districts in the same country. It fluctuates with the vagaries of the season, and with the breed and the condition of the sheep. To allow for this factor, the weight of greasy wool is sometimes given on a 'clean' basis, i.e. minus the estimated amount of impurities. The net wool fibre content of greasy wool, expressed as a percentage, is termed 'clean yield'.

From 1946-47 to 1952-53 the Australian Wool Realisation Commission, and from 1953-54, the Wool Statistical Service has assessed annually the clean yield of the Australian wool clip. During the period of assessment the clean yield showed a continuous rise up to 1951-52, when it reached 57.5 per cent. It was 59.93 per cent in 1974-75, the highest so far assessed.

Wool scoured, washed and carbonised in Australia before export, however, has a somewhat lower clean yield than the whole clip, because the grade of greasy wool treated locally for export as scoured, washed or carbonised contains quantities of dirty and low-grade wool. The quantity of scoured and carbonised wool exported during 1974-75 was about 8.4 per cent of total raw wool exports in terms of greasy. For the clean yield of Australian scoured wools exported a standard factor of 93 per cent has been adopted.

The production of wool in the States and Territories varies broadly in accordance with the number of sheep depastured and with seasonal conditions which affect clip per head (see page 795). In general, however, South Australia obtains from its large-framed merinos a much heavier fleece per sheep than the Australian average. In addition, as a result of better management (improved pastures, fodder conservation, better breeding, control of diseases, etc.), the long-term trend has been towards higher fleece weights.

The following table shows details of total wool (i.e. shorn, dead and fellmongered, and exported on skins) produced by each of the States and Territories during recent years. A graph showing the production of wool in relation to sheep numbers from 1880 onwards appears on plate 53, page 795.

PRODUCTION OF WOOL (GREASY BASIS) ('000 kg)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|--|---------|---------|--------|---------|---------|--------|------|--------|---------|
| 1970–71 | | 314,316 | 201,287 | 76,554 | 116,150 | 158,969 | 21,671 | 36 | 1,000 | 889,983 |
| 1971-72 | | 281,759 | 197,512 | 83,160 | 119,233 | 178,162 | 21,063 | 24 | 822 | 881,735 |
| 1972-73 | | 226,186 | 172,323 | 70,195 | 100,930 | 146,860 | 18,153 | 10 | 555 | 735,213 |
| 1973-74 | | 213,224 | 155,361 | 63,833 | 100,939 | 149,439 | 17,549 | 7 | 540 | 700,892 |
| 1974-75 | | 254,268 | 165,543 | 66,262 | 107,983 | 179,975 | 18,888 | 14 | 546 | 793,479 |

The bulk of the Australian wool production (about 90 per cent in recent years) is shorn from live sheep. The remainder is obtained by fellmongering (less than one per cent) or is exported on skins (about 9 per cent). The following table shows details of total wool production according to method of obtaining wool, and also the gross value of wool produced. Gross value is based, for shorn wool, upon the average price realised for greasy wool sold at auction and, for skin wools, on prices recorded by fellmongers and skin exporters.

QUANTITY (GREASY BASIS) AND VALUE OF WOOL PRODUCED: AUSTRALIA

| | | | Shorn (including | Dead and fell- | Exported | Total produ | ction | |
|---------|--|---|---------------------|-------------------|----------|-------------|-----------|--|
| Year | | | crutchings) | mongered | on skins | Quantity | Value | |
| | | | '000 kg | '000 kg | '000 kg | '000 kg | \$,000 | |
| 1970-71 | | | 800,185 | 7,985 | 81,813 | 889,983 | 537,504 | |
| 1971-72 | | | 778,566 | 8,437 | 94,732 | 881,735 | 660,456 | |
| 1972-73 | | | 643,600 | 7,780 | 83,834 | 735,213 | 1,242,630 | |
| 1973-74 | | | 644,257 | 3,987 | 52,648 | 700,892 | 1,229,296 | |
| 1974–75 | | ٠ | 725,298 | 6 | 8,181 | 793,479 | 952,724 | |

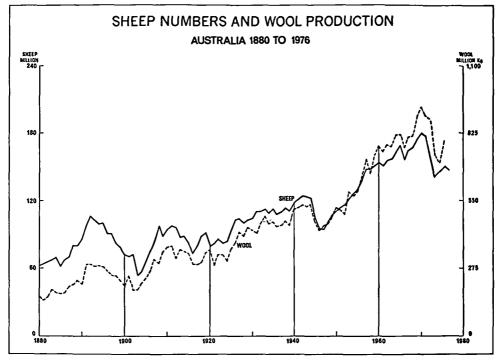


PLATE 53

Average fleece weight

AVERAGE WEIGHT OF FLEECES SHORN (SHEEP AND LAMBS) (kg)

| State or | Sheep | | | | Lambs | Lambs | | | | | |
|---|--|--|--|--|--|--|--|--|--|--------------------------------------|--|
| Territory | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 | |
| New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory Australian Capital | 4.55 4.67 4.69 5.69 4.68 4.67 4.29 | 4.36 4.52 4.99 6.00 5.10 4.70 6.00 | 4.34 4.45 4.99 5.98 4.64 4.41 3.86 | 4.60 4.92 4.89 6.20 4.59 4.58 4.75 | 4.87 4.87 4.83 6.39 5.31 4.74 4.75 | 1.61 1.39 2.05 1.75 1.38 1.19 | 1.55 1.36 2.16 1.85 1.57 1.26 | 1.45 1.24 2.11 1.72 1.38 1.12 | 1.60 1.38 1.99 1.87 1.36 1.23 | 1.68 1.50 2.07 1.97 1.44 | |
| Territory | 4.26 | 4.13 | 4.07 | 4.64 | 4.70 | 0.95 | 1.22 | 1.02 | 1.09 | 1.70 | |
| Australia . | 4.74 | 4.78 | 4.67 | 4.87 | 5.13 | 1.54 | 1.58 | 1.45 | 1.54 | 1.64 | |

Wool marketing

Details of past wool marketing schemes and agreements, including the 1914–18 War Imperial Purchase Scheme, the British Australian Wool Realization Association Ltd, the 1939–45 War Acquisition Scheme, Joint Organization, and the Reserve Price Plans of 1951 and 1965, are given n previous issues of the Year Book.

Between 80 and 90 per cent of the Australian wool clip is disposed of at auction. (During both world wars, however, auction selling was suspended and replaced by bulk purchase schemes.) There are fourteen recognised wool-selling centres, namely Sydney, Goulburn, Newcastle, Albury, Melbourne, Geelong, Ballarat, Portland, Brisbane, Adelaide, Fremantle, Albany, Hobart, and Launceston. At these centres wool-selling brokers operate large stores where wool received from growers is held awaiting sale.

Each year a wool-selling program is drawn up by the Joint Wool Selling Organisation representing wool growers, wool buyers, the Australian Wool Corporation, selling brokers, and unions on the basis of expected clip. Selling dates and the quantities to be offered are then determined for each centre. Before each sale the selling brokers, who act as agents for the wool growers, display a representative portion of the wool to be sold on show floors for buyers' inspection and valuation. However, an increasing proportion of the clip is sold on the basis of laboratory-determined specifications ('objective measurements'). Auction sales are attended by buyers purchasing on behalf of wool users in more than fifty countries.

The balance of the clip is sold mainly through private sale, that is, after direct negotiation between the grower and the buyer. Since September 1971 a further alternative, sale by tender, has been available using the principle of sealed bidding. Companies engaged in this activity employ objective measurement techniques for wool, which can allow substantial savings in handling costs over traditional methods of wool selling by auction.

Wool marketing Committee of Enquiry

Details of this enquiry and its findings are included in previous issues of the Year Book.

Price and value

During 1974-75 the price of greasy and scoured wool sold in the selling centres of Australia averaged 127.03c per kg compared with the average price of 181.16c per kg in 1973-74. These prices are as compiled by the National Council of Wool Selling Brokers and represent the average price realised for all greasy and scoured wool, of whatever type or quality, marketed during the years indicated. The amount of scoured wool sold at auctions is now negligible.

Fluctuation in Australian wool prices has a marked effect on the nation's rural and national income. In 1945-46 the gross value of wool production was \$117,194,000, representing 17.4 per cent of the gross value of production of all rural industries, while in 1950-51, when prices reached a peak, wool was valued at \$1,303,804,000 or 55.6 per cent of the total value of production for all rural industries. The value of wool production fluctuated considerably in subsequent years. In 1974-75 it was \$952,724,000 or 16.2 per cent of the gross value of production of rural industries.

ESTIMATED GROSS VALUE OF TOTAL WOOL PRODUCTION(a) (\$'000)

| Season | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|---------|---------|---------|---------|---------|--------|------|--------|-----------|
| 1970-71 | 198,688 | 118,123 | 44,916 | 65,525 | 94.510 | 14.983 | 17 | 742 | 537,504 |
| 1971-72 | 222,598 | 134,514 | 61,732 | 85,701 | 137,269 | 18,001 | 13 | 628 | 660,456 |
| 1972-73 | 429,825 | 254,434 | 123,512 | 164,577 | 231,559 | 37,481 | 17 | 1,224 | 1,242,629 |
| 1973-74 | 408,019 | 248,232 | 107,417 | 173,180 | 259,389 | 31,973 | n.a. | 1,086 | 1,229,296 |
| 1974-75 | 306,110 | 193,623 | 81,301 | 122,180 | 224,898 | 23,890 | n.a. | 722 | |

(a) Includes shorn, dead and fellmongered wool and wool exported on skins.

Stocks of wool

Stocks of raw wool held in Australia at 30 June 1975 amounted to 447.6 million kg (greasy basis) of which 17.2 million kg (9.5 million kg as greasy and 7.7 million kg as scoured and carbonised) was held by woollen mills, wool scourers and fellmongers, and 190.9 million kg, assumed to be all greasy, was held by brokers and dealers and the Australian Wool Corporation. Of the wool held by brokers and dealers 28.5 million kg was unsold wool and 162.4 million kg was sold wool held awaiting shipment. These stocks exclude wool on skins, since this wool is not recorded as production until fellmongered in Australia or exported on skins.

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Consumption of wool

Statistics of raw wool consumption published in recent years for the purposes of broad international comparisons are based on the quantities of scoured or carbonised wool used on the woollen and worsted systems (mill consumption), plus quantities used in such processes as felting. Consumption estimates compiled on this basis have obvious defects, as they disregard overseas trade in semi-processed wool (e.g. tops and yarns) as well as woollen goods. Estimates of raw wool used on the woollen and worsted systems and by felt manufacturers in Australia are shown in the following table

ESTIMATED CONSUMPTION OF RAW WOOL: AUSTRALIA ('000 kg)

| | | | | Greasy basis | • | | Clean equivalent | | | |
|---------|--|--|--|---|-------|--|---|-------|--------|--|
| Year | | | Used on woollen and worsted systems | Used for felt manufacture (including hats) | Total | Used on woollen and worsted systems | Used for felt manufacture (including hats) | Total | | |
| 1970-71 | | | | 59.031 | 1,148 | 60,179 | 34,617 | 545 | 35,162 | |
| 1971-72 | | | | 54,108 | 1,148 | 55,256 | 30,965 | 545 | 31,510 | |
| 1972-73 | | | | 55,061 | 1,148 | 56,209 | 31,702 | 545 | 32,247 | |
| 1973-74 | | | | 44,490 | 1,148 | 45,638 | 25,461 | 545 | 26,006 | |
| 1974-75 | | | | 28,877 | 1,148 | 30,025 | 16,526 | 545 | 17,071 | |

As considerable quantities of tops, noils and yarn are exported from Australia, the series on raw wool consumption shown above is over-stated to this extent. The series 'Estimated consumption of processed wool in Australia' provides a more reliable indication of wool consumption in Australia, as allowance has been made for exports of wool in semi-processed form. This series is shown in the following table. Briefly, the series measures consumption of wool in terms of yarn used in Australian mills and other factories to produce woollen cloth and other woollen goods, yarn used for hand knitting purposes, and scoured wool used for felt manufacture. No allowance has been made for overseas trade in woollen piece goods, clothing, etc., because of the obvious difficulties of estimating accurately the wool content of these products.

ESTIMATED CONSUMPTION OF PROCESSED WOOL: AUSTRALIA ('000 kg)

| | | Greasy ba | sis | | | Clean equ | Clean equivalent | | | | |
|-----------------------|----|------------------------------------|--------------------------------|---|--------|------------------------------------|--------------------------------|---|--------|--|--|
| Year ended 30 June | ed | Worsted yarn used (a) (b) | Woollen yarn used (b) | Scoured wool used for felt manu- facture (including hats) | Total | Worsted yarn used (a) (b) | Woollen yarn used (b) | Scoured wool used for felt manu- facture (including hats) | Total | | |
| 1971 | | 19,735 | 18,030 | 1.148 | 38,913 | 12,210 | 10,913 | 545 | 23,668 | | |
| 1972 | | 21,576 | 18,558 | 1,148 | 41,282 | 12,105 | 10,996 | 545 | 23,646 | | |
| 1973 | · | 18,894 | 18,736 | 1,148 | 38,778 | 10,627 | 10,493 | 545 | 21,665 | | |
| 1974 | | 14,978 | 17,716 | 1,148 | 33,842 | 8,408 | 9,935 | 545 | 18,888 | | |
| 1975 | | 9,411 | 13,779 | 1,148 | 24,338 | 5,283 | 7,804 | 545 | 13,632 | | |

⁽a) Includes hand knitting yarns used. (b) Includes wool content of yarns containing a mixture of wool and other fibres.

Quantities of wool exported

Of the total shipments of greasy and slipe wool in 1974-75, 30 per cent went to Japan, 13 per cent to the U.S.S.R., 12 per cent to France, 7 per cent to the Federal Republic of Germany, 6 per cent to Italy and 4 per cent to Poland.

EXPORTS OF GREASY AND SLIPE WOOL: AUSTRALIA ('000 kg actual weight)

| Country of consign | nmeni | t | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--------------------|-------|--------|--------|----|---------|---------|---------|---------|---------|
| Belgium-Luxembourg | | | | | 44,145 | 27,472 | 26,824 | 17,137 | 16,380 |
| China—excluding | Taiv | van Pi | rovino | е. | 2,439 | 6,478 | 8,812 | 8,198 | 1,124 |
| Taiwan P | rovin | ce on | ly. | | 14,226 | 15,692 | 15,691 | 5,718 | 6,201 |
| France | | | ٠. | | 62,343 | 78,346 | 57,343 | 50,176 | 56,502 |
| Germany, Federal | Rep | ublic | of | | 46,118 | 52,036 | 41,022 | 22,840 | 32,050 |
| India | . • | | | | 16,916 | 15,223 | 6,868 | 10,075 | 11,781 |
| Italy | | | | | 42,451 | 52,327 | 43,278 | 32,121 | 29,405 |
| Japan | | | | | 254,684 | 285,239 | 299,163 | 175,266 | 138,544 |
| Poland | | | | | 12,711 | 18,355 | 22,555 | 16,945 | 17,912 |
| United Kingdom | | | | | 34,173 | 33,011 | 29,736 | 18,707 | 13,766 |
| U.S.S.R | | | | | 38,795 | 21,328 | 30,264 | 59,828 | 60,876 |
| Yugoslavia . | | | | | 16,655 | 8,671 | 19,665 | 21,480 | 12,347 |
| Other | | | • | | 65,054 | 75,127 | 65,008 | 49,528 | 59,941 |
| Total . | | | | | 650,701 | 689,305 | 666,229 | 488,019 | 456,829 |

EXPORTS OF SCOURED AND CARBONISED WOOL: AUSTRALIA ('000 kg actual weight)

| Country of consignment | 1970-71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|-----------------------------------|---------|---------|---------|---------|---------|
| Canada | 956 | 911 | 814 | 457 | 913 |
| China-excluding Taiwan Province . | 103 | 231 | 590 | 1.015 | 277 |
| -Taiwan Province only | 2,182 | 1,063 | 1,523 | 1,312 | 490 |
| France | 1,061 | 1,622 | 691 | 684 | 1,427 |
| Germany, Federal Republic of . | 3,800 | 3,619 | 3,624 | 2,867 | 4,968 |
| Hong Kong | 1,799 | 1,458 | 2,131 | 1,133 | 506 |
| Iran | 1,896 | 3,117 | 2,041 | 307 | 2,920 |
| Italy | 3,529 | 4,840 | 2,679 | 3,442 | 4,152 |
| Japan | 968 | 1,443 | 3,119 | 4,184 | 6,332 |
| Korea, Republic of | 729 | 759 | 1,679 | 1,058 | 1,303 |
| United Kingdom | 6.104 | 5,823 | 6,335 | 3,164 | 4,676 |
| United States of America | 2,550 | 1,020 | 2,967 | 2,186 | 1,935 |
| U.S.S.R | 1,046 | 10,246 | 2,284 | 163 | 3,667 |
| Other | 6,069 | 5,891 | 3,797 | 5,099 | 4,712 |
| Total | 32,791 | 42,043 | 34,274 | 27,071 | 38,278 |

EXPORTS OF CARDED OR COMBED WOOL, NOILS AND WOOLWASTE: AUSTRALIA ('000 kg actual weight)

| | | 197071 | 1971–72 | 1972–73 | 1973-74 | 1974–75 |
|-----------------------|------|--------|---------|---------|---------|---------|
| Carded or combed—Tops | | 8,892 | 9,949 | 9,070 | 5,842 | 4,870 |
| Other | | 14 | 90 | 67 | 118 | 104 |
| Noils | | 1,367 | 1,453 | 1,179 | 1,111 | 682 |
| Waste | | 1,455 | 2,545 | 1,844 | 1,136 | 957 |

WOOL 799

The following table shows the estimated greasy weights of exports of raw and semi-processed wool. As the figures in the table are expressed on a 'greasy' basis, they differ from those in the preceding tables which represent actual weight shipped.

EXPORTS OF WOOL—GREASY BASIS: AUSTRALIA
('000 kg)

| | | | | 1970–71 | 1971-72 | 1972–73 | 1973–74 | 1974–75 | | | | | | |
|----------------------|-------|--------|------|---------|---------|---------|---------|---------|--|--|--|--|--|--|
| Raw wool- | | | | | | | | | | | | | | |
| Greasy and slipe. | | | | 650,875 | 689,619 | 666,519 | 488,118 | 456,862 | | | | | | |
| Scoured and carbonis | ed | | | 52,298 | 66,947 | 54,720 | 42,278 | 58,030 | | | | | | |
| Exported on skins | | | | 81,813 | 94,732 | 83,834 | 52,648 | 66,225 | | | | | | |
| Total raw wool | | | | 784,986 | 851,298 | 805,073 | 583,044 | 581,117 | | | | | | |
| Semi-processed wool- | | | | | | | | | | | | | | |
| Tops | | | | 17,073 | 18,903 | 17,208 | 10,859 | 9,253 | | | | | | |
| Yarn | | | | 243 | 331 | 159 | 299 | 159 | | | | | | |
| Total raw and | semi- | proces | ssed | | | | | | | | | | | |
| wool . | | - | | 802,302 | 870,532 | 822,440 | 594,202 | 590,529 | | | | | | |

Overseas trade in sheepskins

EXPORTS OF SHEEPSKINS WITH WOOL: AUSTRALIA

| | | | | Quantity | ('000 kg) | | Value (\$'0 | 000 f.o.b.) | Value (\$'000 f.o.b.) | | | |
|------------------------|------------------------|----|---|----------|-----------|---------|-------------|-------------|-----------------------|--|--|--|
| Country of consignment | Country of consignment | | | | | 1974-75 | 1972-73 | 1973–74 | 1974-75 | | | |
| France | | | | 75,473 | 47,597 | 52,586 | 69,103 | 61,381 | 40,652 | | | |
| Germany, Federal Rep | ublic | of | | 5,886 | 3,452 | 3,849 | 4,425 | 2,971 | 3,409 | | | |
| Italy | | | | 16,486 | 7,682 | 6,540 | 15,686 | 10,825 | 5,884 | | | |
| Netherlands | | | | 2,620 | 1,275 | 1,162 | 1,189 | 1,057 | 955 | | | |
| Spain | | | | 2,649 | 1,217 | 863 | 1,852 | 1,552 | 629 | | | |
| United Kingdom . | | | | 6,501 | 2,848 | 3,138 | 5,493 | 3,159 | 2,177 | | | |
| Yugoslavia | | | | 4,686 | 3,901 | 3,886 | 2,630 | 3,849 | 3,243 | | | |
| Other | • | | • | 8,615 | 6,635 | 4,464 | 6,112 | 6,593 | 4,132 | | | |
| Total | | | | 122,916 | 74,607 | 76,488 | 106,490 | 91,390 | 61,081 | | | |
| Number of skins ('000) | | | | 39,931 | 24,387 | 24,077 | 1. | | | | | |

In 1974-75 a total of 721,000 sheepskins without wool were exported, valued at \$1,149,000. Of these, sheepskins without wool to the value of \$422,000 (37 per cent) were shipped to France, \$194,000 (17 per cent), to Italy and \$148,000 (13 per cent) to the United States of America.

Value of wool exported

The value of wool (other than wool on sheepskins) exported from Australia during 1974-75 was 9 per cent of the total value of exports of merchandise of Australian origin, while the proportion for the five years ended 1974-75 averaged 14 per cent. The values for the five years ended 1974-75, together with the principal countries to which wool was exported, are shown in the following table.

VALUE OF WOOL EXPORTS: AUSTRALIA(a) (\$'000)

| Country of consignment | 1970-71 | 1971-72 | 1972–73 | 1973-74 | 1974-75 |
|------------------------------|-------------|---------|-----------|-----------|---------|
| Belgium-Luxembourg | 24,486 | 16,149 | 33,267 | 29,152 | 19,103 |
| France | 42,155 | 53,087 | 82,441 | 92,846 | 68,827 |
| Germany, Federal Republic of | 39,246 | 45,555 | 67,052 | 56,234 | 58,279 |
| Italy | 33,863 | 42,012 | 67,829 | 70,499 | 47,572 |
| Japan | 198,276 | 220,300 | 495,310 | 426,480 | 231,215 |
| United Kingdom | 30,062 | 32,470 | 55,869 | 43,064 | 24,619 |
| United States of America | 14,672 | 13.133 | 18.093 | 12,466 | 9,536 |
| U.S.S.R. | 35,349 | 29,860 | 70,269 | 147,271 | 98,485 |
| Other | 125,718 | 129,630 | 264,114 | 278,552 | 195,846 |
| Total | 543,827 | 582,196 | 1,154,244 | 1,156,564 | 753,482 |

(a) Excludes wool exported on sheepskins.

World sheep numbers and wool production

The following table shows particulars of the woolled sheep numbers and total production of wool, in terms of greasy, in the principal wool-producing countries of the world, together with estimates of world production of merino, crossbred, and carpet type wool for the latest available years.

In 1973-74 Australia produced 28 per cent of the world total of all types of wool. Other principal wool producers were New Zealand with 12 per cent of the world total, Argentina, 7 per cent, South Africa, 4 per cent, and United States of America, 3 per cent. Production in the U.S.S.R., China (excluding Taiwan Province) and eastern European countries together amounted to 22 per cent.

Australia's wool clip is predominantly merino. New Zealand and Argentina produce mainly crossbred wool, while the clip of the U.S.S.R. is largely of the carpet type.

ESTIMATED WORLD WOOLLED SHEEP NUMBERS AND PRODUCTION OF WOOL

(Source for countries other than Australia: Reports published by Australian Meat Board and by the Commonwealth Secretariat, London)

| | | Sheep nun | nbers (millio | n) | Wool production (million kg greasy basis) | | | |
|--------------------------|---|-----------|---------------|------------|--|---------|------------|--|
| Country | | 1971-72 | 1972-73 | 1973-74(a) | 1971-72 | 1972-73 | 1973-74(a) | |
| Australia | | 163 | 140 | 145 | 882 | 735 | 701 | |
| New Zealand | | 61 | 57 | 56 | 322 | 309 | 286 | |
| Argentina | | 40 | 41 | 42 | 189 | 177 | 180 | |
| South Africa | | 30 | 33 | 34 | 116 | 108 | 108 | |
| United States of America | | 19 | 18 | 16 | 82 | 78 | 72 | |
| Uruguay | | 16 | 17 | 17 | 54 | 60 | 60 | |
| United Kingdom | | 19 | 20 | 20 | 47 | 48 | 49 | |
| U.S.S.R | | 140 | 139 | 142 | 429 | 420 | 433 | |
| Other | • | 534 | 5 35 | 539 | 590 | 583 | 586 | |
| World total . | | 1,022 | 1,000 | 1,011 | 2,711 | 2,519 | 2,474 | |

(a) Provisional.

Mutton and lamb

Sheep slaughtered

SHEEP (INCLUDING LAMBS) SLAUGHTERED ('000)

| | | | Slaughteri | ings passed | for human | consumpti | on | | | | | Total slaugh- terings including boiled |
|--|---|---|---|--|---|---|---|---------------------------------------|-----------|---------------------------------|--|--|
| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. | down |
| 1971-72 1972-73 1973-74 1974-75 1975-76p | : | : | 16,641 12,598 7,709 8,795 9,154 | 20,084 14,529 8,392 9,832 11,257 | 3,418 2,452 1,321 1,279 1,436 | 5,144 4,539 2,595 2,984 3,598 | 6,001 5,548 3,756 4,308 5,974 | 1,475 1,278 825 980 1,072 | 4 | 218 190 145 178 198 | 52,983 41,133 24,743 28,356 32,687 | 53,444 41,399 24,886 28,545 n.a. |

Production of mutton and lamb

PRODUCTION OF MUTTON AND LAMB (CARCASS WEIGHT) (Tonnes)

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|---|---|---|---|--|--|--|--|-----------------------|---|---|
| 1971-72 1972-73 1973-74 1974-75 1975-76p | : | : | 289,557 214,041 142,182 161,733 165,746 | 380,447 264,159 157,600 184,018 204,349 | 58,896 40,570 23,206 22,581 24,901 | 91,504 76,263 50,116 54,818 64,344 | 105,117 92,916 66,154 76,018 102,572 | 27,188 22,528 14,768 17,492 18,905 | 65 2 2 4 | 3,554 2,916 2,510 3,157 3,351 | 956,328 713,395 456,536 519,819 584,172 |

Value of sheep slaughtered

GROSS VALUE OF SHEEP AND LAMBS SLAUGHTERED(a), 1974-75 (\$'000)

| N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--------|--------|-----|--------|--------|-------|------|--------|---------|
| 58,835 | 56,064 | 537 | 22,212 | 34,177 | 6,359 | (b) | 82 | 178,266 |

⁽a) Includes adjustment for net exports (overseas and interstate) of livestock. excluded from total.

GROSS VALUE OF SHEEP AND LAMBS SLAUGHTERED (a): AUSTRALIA (\$'000)

| 1970-71 | 1971-72 | 1972–73 | 1973–74 | 1974-75 |
|---------|---------|---------|---------|---------|
| 178,431 | 215,747 | 306,109 | 321,400 | 178,266 |

⁽a) Includes adjustment for net exports (overseas and interstate) of livestock.

Consumption of mutton and lamb

In 1959-60 consumption of mutton and lamb, at 46.7 kg per head of population, exceeded that of beef and veal for the first time on record. Subsequently, it showed a continuous decline until 1965-66, when it fell to 37.6 kg per head. The 1974-75 figure was 26.6 kg per head or 37.8 kg per head less than beef and veal.

PRODUCTION AND DISPOSAL OF MUTTON AND LAMB (CARCASS WEIGHT): AUSTRALIA

| | | | | | | | Apparent consumption in Australia | | | |
|---|---|--|----------------------------|---------------------------------|---------------------------------|----------------------|-----------------------------------|--------------------------------------|--|--|
| Year | | Net change in stocks Production Exports(a) For canning Total ('000 tonnes) ('000 tonnes) ('000 tonnes) ('000 tonnes) | | Per head per year (kg) | | | | | | |
| | | | | | MUTTON | | | | | |
| 1970–71 1971–72 1972–73 1973–74 1974–75 | : | | +5 +3 -7 -6 +3 | 470 596 435 221 250 | 201 317 238 107 121 | 14 14 11 11 | 250 263 193 109 115 | 19.7 20.4 14.8 8.2 8.6 | | |
| | | | | | LAMB | | | | | |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | : | : | +1 +2 -4 ·· +2 | 355 360 278 235 269 | 52 43 38 25 25 | | 302 315 244 210 243 | 23.8 24.4 18.7 15.9 18.0 | | |

⁽a) Includes carcass equivalent of boneless mutton exported.

⁽b) Not available for publication;

Consumption of meat and meat products

The apparent consumption of meat (including cured and canned meat) and edible offal per head of population in Australia is shown in the table below.

MEAT (INCLUDING CURED AND CANNED) AND EDIBLE OFFAL AVAILABLE FOR CONSUMPTION: AUSTRALIA

(kg per head per year)

| Year | | | | Beef and veal(a) | Mutton (a) | Lamb(a) | Pork(a) | Offai | Canned meat(b) | Bacon and ham(c) | Carcass equivalent of meat and meat products (d) |
|---------|---|---|---|------------------------|---------------|---------|---------|-------|-------------------|------------------------|---|
| 1970-71 | | | | 39.7 | 19.7 | 23.8 | 6.9 | 5.2 | 2.6 | 4.6 | 105.0 |
| 1971-72 | | | | 39.5 | 20.4 | 24.4 | 6.9 | 5.8 | 2.6 | 5.0 | 106.8 |
| 1972-73 | | | | 39.1 | 14.8 | 18.7 | 7.9 | 5.7 | 2.6 | 5.5 | 97.0 |
| 1973-74 | | | | 40.7 | 8.2 | 15.9 | 6.8 | 4.4 | 2.4 | 5.5 | 86.6 |
| 1974–75 | • | • | • | 64.4 | 8.6 | 18.0 | 5.2 | 5.2 | 2.2 | 5.0 | 111.0 |

⁽a) Carcass weight.

(d) Includes offal.

Exports of mutton and lamb

EXPORTS OF FRESH, CHILLED OR FROZEN MUTTON AND LAMB(a): AUSTRALIA

| | Mutto | | Mutton expo | rts | Lamb export | 5 | Mutton and lamb exports | | |
|---------|-------|--|-------------|----------|------------------|----------|-------------------------|----------|------------------|
| Year | | | | Quantity | Value | Quantity | Value | Quantity | Value |
| | | | | '000 kg | \$'000 f.o.b. | '000 kg | \$'000 f.o.b. | '000 kg | \$'000 f.o.b. |
| 1970-71 | | | | 130,910 | 52,192 | 43,623 | 21.878 | 174,533 | 74,070 |
| 1971-72 | | | | 200,937 | 89,283 | 37,632 | 17,774 | 238,569 | 107,057 |
| 1972-73 | | | | 156,737 | 100,562 | 31,657 | 17,920 | 188,394 | 118,482 |
| 1973-74 | | | | 103,556 | 62,512 | 22,486 | 16,678 | 126,042 | 79,190 |
| 1974-75 | | | | 120,738 | 48,856 | 24,623 | 15,508 | 145,361 | 64,364 |

⁽a) Actual weight shipped, not carcass equivalent.

In 1974-75 the principal buyers of Australian mutton and lamb were Japan (43,771,000 kg, valued at \$24,980,000); Iran (13,297,000 kg, valued at \$9,012,000); and the United Kingdom (10,195,000 kg, valued at \$5,883,000).

Cattle

Objects of cattle-raising in Australia

Cattle-raising is carried out in all States, the main object in certain districts being the production of stock suitable for slaughtering purposes and in others the raising of profitable dairy herds. While dairy cattle are restricted mainly to coastal districts, beef cattle are more widely distributed in areas such as the tropical area of northern Queensland, the Northern Territory and the Kimberley district in the north of Western Australia. Increasing numbers of beef cattle are being raised in conjunction with sheep.

Distribution throughout Australia

Although cattle numbers declined after 1957 because of drought conditions and heavy slaughterings, they began to rise again in 1960 and in 1964 reached 19,055,000. Again because of drought in the eastern States, this figure declined to 17,936,000 in 1966. There has been a continuous increase in the total number of cattle in Australia since 1967.

For a graph showing the number of cattle in Australia from 1880 onwards see plate 52 page 793.

⁽b) Canned weight.

⁽c) Cured carcass weight.

NUMBER OF CATTLE AT 31 MARCH ('000)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------|------|------------|-------|--------|-------|-------|------|-------|--------|--------|
| 1972 | | 7,410 | 5,457 | 9,022 | 1,495 | 1,975 | 829 | 1,166 | 20 | 27,373 |
| 1973 | | 7,918 | 5,464 | 9,795 | 1,583 | 2,182 | 900 | 1,237 | 19 | 29,101 |
| 1974 | | 8,456 | 5.840 | 10,297 | 1,692 | 2,330 | 884 | 1,321 | 19 | 30,839 |
| 1975 | | 8,935 | 6,192 | 10,879 | 1,869 | 2,544 | 921 | 1,434 | 18 | 32,793 |
| 1976 | | 9,138 | 5,868 | 11,347 | 1,891 | 2,654 | 909 | 1,603 | 23 | 33,434 |

Maps showing the distribution of beef and dairy cattle in Australia have been published in previous issues of the Year Book.

Classification of cattle

CATTLE CLASSIFIED ACCORDING TO PURPOSE, AGE AND SEX: 31 MARCH 1976p
('000)

| Classification | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|----------------|----------------|----------------|------------|--------------|------------|------------|---------|-----------------|
| Bulls (1 year and over) used or intended for service— | | | | | | | | | |
| Dairy breeds Beef breeds | 9 142 | 31 86 | 8 196 | 4 35 | 53 | 3 13 | 39 | • • • | 57 564 |
| Total | 151 | 117 | 204 | 39 | 55 | 16 | 39 | | 621 |
| Proportion of Aust. total (per cent) | 24.3 | 18.8 | 32.9 | 6.3 | 8.9 | 2.6 | 6.3 | | 100.0 |
| Milk or cream for sale— Cows in milk and dry Heifers— | 384 | 1,258 | 330 | 135 | 93 | 143 | | 1 | 2,345 |
| I year and over | 109 72 | 300 254 | 81 50 | 34 29 | 36 29 | 36 32 | | •• | 595 467 |
| holdings— House cows and heifers | 54 | 19 | 32 | 7 | 6 | 3 | | | 122 |
| Total | 620 | 1,831 | 493 | 204 | 164 | 214 | 1 | 1 | 3,528 |
| Proportion of Aust. total (per cent) Cattle for other purposes (a)— | 17.6 | 51.9 | 14.0 | 5.8 | 4.7 | 6.1 | | | 100.0 |
| Cows and heifers (1 year and over) . Calves (under 1 year) (b) Other (1 year and over) i.e. steers, | 4,400 2,682 | 2,049 1,139 | 5,323 2,565 | 896 542 | 1,316 664 | 320 238 | 886 357 | 12 8 | 15,202 8,194 |
| bullocks, spayed cows, etc | 1,285 | 733 | 2,762 | 210 | 455 | 121 | 320 | 2 | 5,888 |
| Total | 8,368 | 3,920 | 10,650 | 1,648 | 2,435 | 679 | 1,563 | 21 | 29,285 |
| Proportion of Aust. total (per cent) | 28.6 | 13.4 | 36.4 | 5.6 | 8.3 | 2.3 | 5.3 | 0.1 | 100.0 |
| Total cattle and calves for all purposes | 9,138 | 5,868 | 11,347 | 1,891 | 2,654 | 909 | 1,603 | 23 | 33,434 |
| Proportion of Aust. total (per cent) | 27.3 | 17.6 | 33.9 | 5.7 | 7.9 | 2.7 | 4.8 | 0.1 | 100.0 |

⁽a) Mainly for meat production.

⁽b) Includes bull calves under 1 year.

CATTLE CLASSIFIED ACCORDING TO PURPOSE, AGE AND SEX: AUSTRALIA ('000)

| | 31 Ma | rch | | | |
|--|-----------|-----------|-----------|-----------|-----------|
| Classification | 1972 | 1973 | 1974 | 1975 | 1976 |
| Bulls (1 year and over) used or intended for service— | | | | | |
| Dairy breeds | 63 462 | 60 489 | 57 516 | 60 562 | 57 564 |
| Total | 525 | 549 | 574 | 622 | 621 |
| Cattle used or intended for production of— Milk or cream for sale— | | | | | |
| Cows (in milk and dry) | 2,565 | 2,523 | 2,371 | 2,355 | 2,345 |
| 1 year and over | 660 | 655 | 633 | 634 | 595 |
| Calves (under 1 year) | 591 | 601 | 554 | 537 | 467 |
| Milk or cream for use on rural holdings— House cows and heifers | 128 | 124 | 121 | 122 | 122 |
| Total | 3,945 | 3,902 | 3,679 | 3,649 | 3,528 |
| Cattle for other purposes(a)— | | | | | |
| Cows and heifers (1 year and over) | 11,873 | 12,660 | 13,800 | 14,897 | 15,202 |
| Calves (under 1 year) (b) | 6,555 | 7,100 | 7,235 | 7,909 | 8,194 |
| Other (1 year and over), i.e. steers, bullocks, | | | | | |
| spayed cows, etc | 4,475 | 4,889 | 5,551 | 5,716 | 5,888 |
| Total | 22,903 | 24,650 | 26,586 | 28,522 | 29,285 |
| Total cattle and calves for all purposes . | 27,373 | 29,101 | 30,839 | 32,793 | 33,434 |

⁽a) Mainly for meat production.

Exports and imports of cattle

In 1974-75 the number of cattle exported was 11,223, valued at \$3,107,000 (1973-74, 24,754 valued at \$7,680,000). Prior to June 1958 small numbers of cattle were imported consisting mainly of valuable animals for stud purposes. Since that date an embargo has been imposed on the import of cattle in order to prevent the introduction of the disease 'blue-tongue'.

⁽b) Includes bull calves under 1 year

CATTLE 805

Comparison with other countries

The following table shows the number of cattle in Australia and in some of the principal cattleraising countries of the world at the latest available date.

CATTLE: NUMBERS IN VARIOUS COUNTRIES

(Source for countries other than Australia: F.A.O. Production Yearbook)

('000)

| Country | | | | | | | | | Year | Number |
|---------------|--------|----------|------|--------|------|---|---|---|------|---------|
| India(a) . | | | | | | | | | 1974 | 179,900 |
| United States | of Am | erica | | | | | | | 1974 | 189,966 |
| U.S.S.R | | | | | | | | | 1974 | 106,266 |
| Brazil(b). | | | | | | | | | 1974 | 88,000 |
| Argentina(b) | | | | | | | | | 1974 | 58,000 |
| Bangladesh | | | | | | | | | 1974 | 26,698 |
| China-exclud | ling T | aiwan | Prov | ince(a | a) . | | | | 1974 | 63,487 |
| Pakistan(a) | | | | | | | | | 1974 | 13,154 |
| Australia . | | | | | | | | • | 1975 | 32,793 |
| Ethiopia(a) | | | | | | | | | 1974 | 24,663 |
| Mexico . | | | | | | | | | 1974 | 27,500 |
| France . | | | | | | - | | | 1974 | 22,864 |
| Colombia | | | | | | | • | | 1974 | 23,032 |
| Germany, Fed | eral R | epubli | c of | | • | | | | 1974 | 14,364 |
| United Kingdo | | | • | | | | | | 1974 | 15,227 |
| Turkey(a) | | | | | | | | • | 1974 | 12,408 |
| South Africa, | Reput | olic of(| a) | | | | | | 1974 | 10,600 |

(a) F.A.O. estimate.

(b) Unofficial figure.

Cattle slaughtered

CATTLE (INCLUDING CALVES) SLAUGHTERED ('000)

| Slaughterings passed for human consumption | | | | | | | | | | | | Total ughterings including boiled |
|---|---|---|---|---|---|---------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------|---|--|
| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. | down |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | : | : | 1,573 1,717 2,349 1,925 2,389 | 1,845 2,074 2,560 2,260 2,498 | 1,590 1,708 2,005 1,740 2,046 | 264 291 393 359 465 | 348 389 478 487 541 | 162 185 261 259 262 | 69 77 78 67 62 | 19 20 25 24 34 | 5,870 6,461 8,148 7,120 8,297 | 5,896 6,514 8,199 7,145 8,321 |

Production of beef and veal

PRODUCTION OF BEEF AND VEAL (CARCASS WEIGHT) (Tonnes)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------------------------------------|---|--------------------|--------------------|--------------------|------------------|-------------------|------------------|------------------|----------------|------------------------|
| 1970-71 | | 282,370 | 307,520 | 302,185 | 43,494 | 64.336 | 29,877 | 14,317 | 3.179 | 1.047.278 |
| 1971-72 | | 305,705 | 336,503 | 344.814 | 50,069 | 77,290 | 34,795 | 15,418 | 3,295 | 1.167.889 |
| 1972-73 | | 416,418 | 416,463 | 384,088 | 64,254 | 90.052 | 47,471 | 15,178 | 4.021 | 1,437,945 |
| 19 73–74 1974– 7 5 | : | 359,455 442,343 | 380,811 402,549 | 349,137 431,184 | 63,211 84,650 | 94,106 106,117 | 46,282 48,313 | 12,729 13,174 | 4,244 5,434 | 1,309,975 1,533,764 |

Value of cattle and calves slaughtered

GROSS VALUE OF CATTLE AND CALVES SLAUGHTERED AND OTHER DISPOSALS(a), 1974-75 (\$'000)

| N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|---------|---------|--------|--------|--------|-------|--------|---------|
| 155,276 | 114,554 | 144,220 | 43,415 | 38,555 | 17,753 | 9,445 | 179 | 523,397 |

(a) Includes adjustment for net exports (overseas and interstate) of livestock.

GROSS VALUE OF CATTLE AND CALVES SLAUGHTERED AND OTHER DISPOSALS(a), AUSTRALIA

(\$'000)

| 1970–71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|---------|---------|-----------|-----------|---------|
| 642,337 | 717,598 | 1,021,703 | 1,069,123 | 523,397 |

⁽a) Includes adjustment for net exports (overseas and interstate) of livestock.

Consumption of beef and veal

Consumption of beef and veal (including canned beef and veal) reached a peak of 60.2 kg per head in 1956-57. With the buoyant overseas market for beef and the high prices ruling in Australia during the following four years, consumption per head fell substantially, and in 1960-61 amounted to only 40.1 kg. In 1974-75 consumption per head reached a post war record level of 66.2 kg of which 64.4 kg was carcass meat and 1.8 kg was canned meat (in terms of carcass equivalent).

A table showing the consumption of all types of meat appears on page 802.

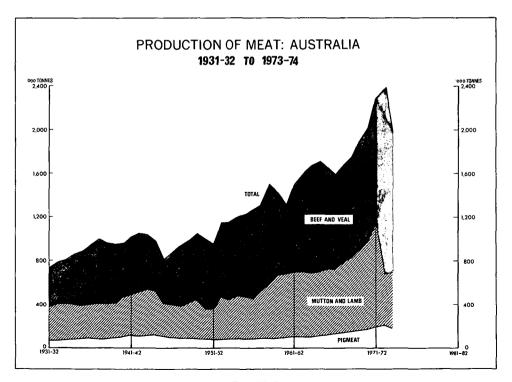


PLATE 54

PRODUCTION AND DISPOSAL OF BEEF AND VEAL (CARCASS WEIGHT) AUSTRALIA

| | Apparent consumption in Australia |
|---|-----------------------------------|
| - | Per he |

| Year | | Net change in stocks | Production | Exports(a) | For canning | Total | Per head per year |
|---------|--|-------------------------|-------------|-------------|-------------|-------------|----------------------|
| | | '000 tonnes | '000 tonnes | '000 tonnes | '000 tonnes | '000 tonnes | kg |
| 1970-71 | | + 2 | 1,047 | 499 | 45 | 502 | 39.7 |
| 1971-72 | | +11 | 1,168 | 594 | 55 | 508 | 39.5 |
| 1972-73 | | + 4 | 1,438 | 872 | 50 | 512 | 39.1 |
| 1973-74 | | -19 | 1,310 | 733 | 55 | 540 | 40.7 |
| 1974-75 | | +11 | 1,534 | 611 | 44 | 868 | 64.4 |

⁽a) Includes carcass equivalent of boneless beef exported and all fresh and frozen meat shipped as ships' stores.

Exports of beef and veal

In 1974-75, the principal markets for Australian beef and veal exports were the United States (287,350,000 kg, valued at \$215,444,000); Canada (27,790,000 kg, valued at \$24,526,000); Japan (15,146,000 kg, valued at \$14,571,000); and United Kingdom (16,332,000 kg, valued at \$13,434,000).

EXPORTS OF FRESH, CHILLED OR FROZEN BEEF AND VEAL(a): AUSTRALIA

| | | Beef expo | rts | | | | n (1 | , | | |
|------------------------|----------------|------------------|------------------|--------------------|--------------------|------------------|------------------|--------------------------|--------------------|--|
| | | Bone-in | | Boneless | | Veal expo | rts | Beef and veal exports | | |
| Year | Quantity Value | | Value | Quantity Value | | Quantity Value | | Quantity | Value | |
| | | '000 kg | \$'000 f.o.b. | '000 kg | \$'000 f.o.b. | '000 kg | \$'000 f.o.b. | '000 kg | \$'000 f.o.b. | |
| 1970–71 . 1971–72 . | | 32,351 17.961 | 21,288 13,627 | 300,811 373,685 | 275,831 364,681 | 5,632 9,883 | 5,768 10,615 | 338,794 401,529 | 302,887 388,923 | |
| 1972–73 . 1973–74 . | | 12,291 13,260 | 13,509 17,963 | 542,830 460,968 | 609,449 592,638 | 26,590 18,688 | 29,246 25,141 | 581,711 492,916 | 652,204 635,742 | |
| 1974–75 . | • | 21,412 | 13,792 | 386,522 | 302,143 | 7,985 | 6,416 | 415,919 | 322,351 | |

⁽a) Actual weight shipped, not carcass equivalent.

Exports and imports of cattle hides

The export trade in cattle hides and calfskins during 1974-75 was distributed among the main importing countries as follows; Japan, \$8,477,000, Poland, \$6,934,000, the Federal Republic of Germany, \$5,366,000 and Italy, \$3,627,000. The total quantity exported was 125,609,000 kg, valued at \$39,771,000.

The quantity of cattle hides, including calfskins, imported into Australia during the year 1974-75 amounted to 333,000 kg, valued at \$204,000. The chief source of supply was New Zealand.

The dairying industry

Australian dairy cattle have shown steady improvement in quality, as demonstrated by milk yield over the years. This is attributable to improved breeding, associated with herd recording, better feeding resulting from the use of improved pastures, and better farming methods arising from the development of modern farm machinery and the application of the results of research.

A significant development in recent years has been the shift away from on-farm separation and delivery of cream to factories, to a widespread system of refrigerated bulk milk delivery. The Commonwealth Government encouraged this transformation by providing interest-free loans under the Australian Dairy Adjustment Program.

The Australian dairying industry is conducted under conditions ranging from tropical to temperate and mediterranean type climates, and in general, is confined to the coastal and near coastal regions where rainfall and topography are favourable. These conditions are found in parts of the

eastern, southern and south-western coasts. Inland districts include the lower north-east of Victoria, the south-western slopes of New South Wales, the fertile Darling Downs in Queensland, and the irrigated districts of the Riverina in New South Wales and northern Victoria.

The manufacturing and processing sections of the industry are well advanced technologically and certain techniques and equipment developed in Australia are now being adopted overseas. State Agricultural Departments give advice on approved methods of production and inspect animals, buildings and marketable produce, to ensure that the latest advances in technology are passed on to the farmer and that hygiene standards are maintained at a high level.

Cattle for milk production

DAIRY BREED BULLS, AND COWS AND HEIFERS USED OR INTENDED FOR PRODUCTION OF MILK OR CREAM, 31 MARCH 1972 TO 1976

('000)

Cows and heifers used or intended for production of milk or cream for sale Heifers House Bulls Cows cows One year dairy (in milk and Under and At 31 March breed(a) and dry) over one year heifers(b) 1976--New South Wales 9 384 109 72 54 300 254 19 Victoria 31 1,258 330 Queensland 8 81 50 32 4 7 South Australia 135 34 29 Western Australia 29 6 2 93 36 3 3 Tasmania . 143 36 32 Northern Territory 1 . . Australian Capital Territory 1 595 467 122 Australia . 57 2,345 537 1975 634 122 60 2,355 1974 57 633 554 121 2,371 655 601 1973 60 2,523 124 1972 63 2,565 660 591 128

A map showing the distribution of dairy cattle in Australia at 31 March 1963 appears facing page 1082, Year Book No. 50.

⁽a) Used or intended for service; excludes bull calves (under 1 year). (b) One year and over, kept primarily for rural holdings' own milk supply.

Production of milk

In the following table particulars of the production of whole milk in the various States and Territories are shown. Victoria is the principal milk-producing State, and in 1974–75 the output from that State, 3,745 million litres, represented 58 per cent of total production. Output from New South Wales in 1974–75 was 958 million litres (15 per cent of the total) and that of Queensland 658 million litres (10 per cent). Production in the remaining States and Territories accounted for 17 per cent.

TOTAL PRODUCTION OF WHOLE MILK
('000 litres)

| Year | N.S.W. Vic. Qld S.A. | | S.A. | W.A. | Tas. | N.T. A.C.T. | | Aust. | |
|------------|----------------------|-----------|---------|---------|---------|-------------|-----|-------|-----------|
| 1971-72 . | . 1,170,819 | 3,973,122 | 767,866 | 457,732 | 254,682 | 451,127 | 318 | 3,201 | 7,078,867 |
| 1972-73 . | . 1,176,962 | 3,944,600 | 736,790 | 424,265 | 242,060 | 423,841 | 318 | 2,672 | 6,951,509 |
| 1973-74 . | . 1,068,826 | 3,916,529 | 665,202 | 438,829 | 241,157 | 421,813 | 318 | 2,841 | 6,755,515 |
| 1974-75 . | . 958,254 | 3,744,632 | 658,243 | 426,371 | 245,895 | 460,521 | 318 | 2,559 | 6,496,795 |
| 1975-76p . | . 979,948 | 3,516,234 | 703,066 | 397,500 | 241,103 | 435,186 | 318 | 2,658 | 6,276,013 |

Milking machines

Statistics relating to the number of milking machines on rural holdings at 31 March 1972 and 1973 are shown in the section Agricultural Machinery.

Value of whole milk production

GROSS VALUE OF WHOLE MILK PRODUCTION(a): 1974-75 (\$'000)

| N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---------|---------|--------|--------|--------|--------|------|--------|---------|
| 114,232 | 267,337 | 57,178 | 31,498 | 20,458 | 29,358 | 167 | 625 | 520,853 |

(a) Includes subsidy.

GROSS VALUE OF WHOLE MILK PRODUCTION(a): AUSTRALIA (\$'000)

| 1970-71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|---------|---------|---------|---------|---------|
| 425,640 | 459,336 | 465,621 | 469,642 | 520,853 |

(a) Includes subsidy.

RURAL INDUSTRY

UTILISATION OF WHOLE MILK: 1974-75p ('000 litres)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|-------------------|----------------------|-------------------|-------------------|------------------|--------------------|-------|--------|----------------------|
| Milk used for— Butter Cheese | 261,837 77,007 | 2,435,763 420,693 | 206,502 98,622 | 88,967 194,335 | 99,630 20,751 | 248,075 123,781 | | . :: | 3,340,774 935,189 |
| Processed milk products . Other purposes | 66,819 552,591 | 415,585 472,591 | (a) (a) | 143,070 | 5,452 115,864 | (a) (a) | 3 i i | 2,559 | 568,338 1,644,617 |
| Total . | 958,254 | 3,744,632 | 654,564 | 426,371 | 241,697 | 460,521 | 318 | 2,559 | 6,488,917 |

(a) Not available for publication.

In 1974–75, 51.5 per cent of the total milk supply was used for butter, 14.4 per cent for cheese, 8.8 per cent for processed milk products, and 25.3 per cent for other purposes.

PRODUCTION AND UTILISATION OF WHOLE MILK: AUSTRALIA ('000 litres)

| | | | Quantity used | for— | | |
|----------|--|---------------------|-------------------|-------------------|----------------------------------|----------------------|
| Year | | Total production | Factory butter | Factory cheese | Processed milk products(a) | Other purposes(b) |
| 1970-71 | | 7,248,995 | 4,212,524 | 746,240 | 586,814 | 1,703,417 |
| 1971-72 | | 7,078,867 | 4,055,604 | 754,840 | 586,405 | 1,682,019 |
| 1972-73 | | 6,951,509 | 3,817,112 | 871.027 | 536,858 | 1,726,513 |
| 1973-74 | | 6,755,515 | 3,623,895 | 889,160 | 535,367 | 1,707,094 |
| 1974-75p | | 6,488,917 | 3,340,774 | 935,189 | 568,338 | 1,644,617 |

(a) Quantities of milk used to produce two or more products (for example, initially as full cream milk and subsequently as skim milk) are counted once only.

(b) Principally fluid milk for domestic purposes. Includes milk used for farm production of butter and cheese.

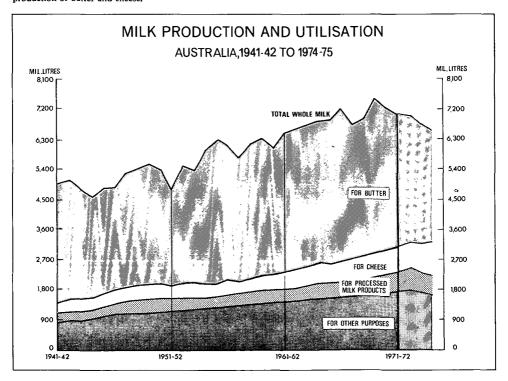


PLATE 55

Production of butter, cheese and processed milk products

Factory production of butter in 1974-75 was 161,274,000 kg. This was 61,684,000 kg (27.7 per cent) below the record of 222,958,000 kg attained in 1969-70.

BUTTER PRODUCTION IN FACTORIES

('000 kg)

| Year | _ | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|---------|---|--------|---------|--------|-------|-------|--------|---------|
| 1970–71 | | 21,288 | 135,844 | 18,773 | 6,617 | 5,425 | 15,273 | 203,220 |
| 1971-72 | | 19,325 | 129,897 | 18,022 | 6.196 | 5.937 | 16.029 | 195,406 |
| 1972-73 | | 17,541 | 128,029 | 15,857 | 5,161 | 5,349 | 12,921 | 184,857 |
| 1973-74 | | 13,287 | 127,730 | 11,699 | 5,160 | 5,223 | 12,398 | 175,497 |
| 1974-75 | | 9,831 | 119,291 | 10,360 | 4,546 | 5,050 | 12,196 | 161,274 |

Factory production of cheese in 1974-75 reached a record level of 98,789,000 kg, which was 2,996,000 kg (3.1 per cent) more than the previous record of 1973-74.

NON-PROCESSED CHEESE PRODUCTION IN FACTORIES

('000 kg)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust. |
|---------|---|--------|--------|--------|--------|-------|--------|--------|
| 1970–71 | • | 7,700 | 35,804 | 7,687 | 18,906 | 1,917 | 5,551 | 77,566 |
| 1971-72 | | 7,486 | 38,788 | 8,251 | 18,444 | 1,979 | 5,923 | 80,871 |
| 1972-73 | | 9,262 | 49,001 | 8,753 | 17,315 | 1,870 | 7,240 | 93,441 |
| 1973-74 | | 9,365 | 47,903 | 9,225 | 18,904 | 1,922 | 8,475 | 95,793 |
| 1974-75 | | 9,925 | 44,833 | 10,066 | 19,288 | 2,291 | 12,386 | 98,789 |

FACTORY PRODUCTION OF NON-PROCESSED CHEESE BY VARIETIES: AUSTRALIA ('000 kg)

| | | | | | | | 1970-71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|--|------|-------------|------|---|---|---------|---------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Fetta Cheddar Cottage Soft Gouda | · | · · · | | | | : :} | n.a. { | 567 58,415 1,554 2,989 | 496 69,977 2,065 3,469 | 544 69,374 2,706 4,180 | 538 68,692 2,907 4,876 |
| Other | | • | • | · | • | : J | ι | 17,346 | 17,438 | 18,989 | 21,776 |
| To | otal | chee | se . | • | | ٠ | 77,566 | 80,871 | 93,445 | 95,793 | 98,789 |

Processed milk products are manufactured mainly in Victoria, which produced 73 per cent of the total (in terms of whole milk equivalent) in 1974–75. New South Wales accounted for 12 per cent and the remaining States for 15 per cent.

PRODUCTION OF PROCESSED MILK PRODUCTS: AUSTRALIA ('000 kg)

| | | | 1970-71 | 1971-72 | 1972–73 | 1973–74 | 1974-75 |
|---------------------------------|---------|---|---------|---------|---------|---------|---------|
| Condensed, concentrated and | | | | | | | |
| evaporated milk— | | | | | | | |
| Full cream- | | | | | | | |
| Sweetened(a) . | | | 16,696 | 16,705 | 14,301 | 12,724 | 14,428 |
| Unsweetened . | | | 61,797 | 47,832 | 36,108 | 33,396 | 34,627 |
| Skim | | | 14,997 | 11,489 | 11,943 | 12,020 | 11,033 |
| Infants', invalid and health be | vега де | s | , | , | | • | , |
| Infants' milk powder . | | | 7,931 | 11,734 | 11,679 | 13,239 | 17.058 |
| Other(b) | • | | 16,046 | 15,265 | 15,028 | 14,482 | 16,431 |
| Casein | • | : | 28,480 | 30,517 | 22,851 | 19,183 | 13,530 |
| Powdered milk— | • | • | 20,.00 | ,, | , | , | 15,550 |
| Full cream— | | | | | | | |
| Spray | | | 25,100 | 27,978 | 35,601 | 36,677 | |
| Roller | • | • | 534 | 786 | 728 | 699 | 44,447 |
| Skim— | • | • | 334 | 700 | .20 | ٧,,, | |
| Without added ingredier | ıte | | | | | | |
| Spray | 113 | | 74,768 | 75,065 | 98,734 | 121,739 | 138,857 |
| Roller | • | • | 5,884 | 7,253 | 6,503 | 5,540 | 8,303 |
| With added ingredients- | _ • | • | 2,004 | 1,233 | 0,505 | 3,340 | 6,50. |
| Baker's powder . | _ | | 3,024 | 2,478 | 2,300 | 2,501 | 1,893 |
| Other | • | • | 7,831 | 7,884 | 10,099 | 9,873 | 8,598 |
| Buttermilk or mixed skim | and | • | 7,031 | 7,004 | 10,077 | 2,073 | 6,376 |
| buttermilk— | anu | | | | | | |
| • | | | 9,216 | 6,138 | 9,559 | 11,604 | 7,58 |
| Spray | • | • | 7,959 | 8,390 | 6,452 | 5,669 | |
| Roner | • | • | 1,939 | 0,390 | 0,432 | 2,009 | 3,95 |
| Total powdered milk | | | 134,316 | 135,972 | 169,976 | 194,302 | 213,64 |

⁽a) Includes 'coffee and milk'.

Wholesale prices of butter and cheddar cheese in Australia

Details of wholesale prices operating in each of the States since March 1969 are shown in the following table. The prices included are those determined by the Australian Dairy Industry Council for choicest grade bulk butter and cheddar cheese up to May 1973. Since July 1974 the Council has accepted the recommendation of the Prices Justification Tribunal for increases in the domestic bulk wholesale prices of butter and cheese effective from the dates shown in the table below.

WHOLESALE PRICES OF BUTTER AND CHEDDAR CHEESE: AUSTRALIA (cents per kg)

| Date from which prices became effective | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. |
|---|------|--------|--------|--------|--------|--------|--------|
| Butter— | | | | | | | |
| 31 March 1969. | | 107.48 | 107.48 | 107.48 | 107.48 | 107.48 | 107.48 |
| 3 August 1971 . | | 111.88 | 111.88 | 111.88 | 111.88 | 111.88 | 111.88 |
| 7 August 1974 . | | 118.50 | 118.50 | 118.50 | 118.50 | 118.50 | 118.50 |
| 25 November 1974 | | 125.11 | 125.11 | 125.11 | 125.11 | 125.11 | 125.11 |
| 27 May 1975 . | | 131.73 | 131.73 | 131.73 | 131.73 | 131.73 | 131.73 |
| 20 November 1975 | | 142.75 | 142.75 | 142.75 | 142.75 | 142.75 | 142.75 |
| Cheddar cheese— | | | | | | | |
| 7 November 1966 | | 65.04 | 65.04 | 65.04 | 65.04 | 65.04 | 65.04 |
| 10 November 1970 | | 67.24 | 67.24 | 67.24 | 67.24 | 67.24 | 67.24 |
| 3 August 1971 . | | 69.45 | 69.45 | 69.45 | 69.45 | 69.45 | 69.45 |
| 8 November 1971 | | 76.06 | 76.06 | 76.06 | 76.06 | 76.06 | 76.06 |
| 15 May 1972 . | | 82.67 | 82.67 | 82.67 | 82.67 | 82.67 | 82.67 |
| 7 May 1973 . | | 88.18 | 88.18 | 88.18 | 88.18 | 88.18 | 88.18 |
| 7 August 1974 . | | 92.59 | 92.59 | 92.59 | 92.59 | 92.59 | 92.59 |
| 25 November 1974 | | 101.41 | 101.41 | 101.41 | 101.41 | 101.41 | 101.41 |
| 27 May 1975 . | | 104.06 | 104.06 | 104.06 | 104.06 | 104.06 | 104.06 |
| 20 November 1975 | | 108.47 | 108.47 | 108.47 | 108.47 | 108.47 | 108.47 |

⁽b) Includes malted milk and milk sugar (lactose).

Local consumption of butter and cheese

Following the cessation of butter rationing after the 1939-45 War, consumption per head rose to 14.2 kg in 1951-52. However, in later years it gradually declined, and in 1974-75, at 7.3 kg per head, it reached its lowest level since the war. Consumption of cheese per head has risen steadily in recent years and by 1974-75 it attained a record figure of 5.2 kg per head.

PRODUCTION AND DISPOSAL OF BUTTER AND CHEESE: AUSTRALIA

| | | | | | | Apparent consumption in Australiu as human food | | | |
|---------|---|---|---|-------------------------------------|------------------------------------|--|--------------------|------------------------------|-----|
| Year | | | | Change in stocks(a) ('000 kg) | Factory production ('000 kg) | Exports(b) ('000 kg) | Total ('000 kg) | Per head per year (kg) | |
| _ | | | | | 1 | BUTTER | | | |
| 1970-71 | | | | | - 6,879 | 203,220 | 93,071 | 117,028 | 9.3 |
| 1971-72 | | | | | +22,064 | 195,761 | 61,656 | 112,041 | 8.7 |
| 1972-73 | | | | | -3,100 | 184,857 | 78,957 | 109,000 | 8.3 |
| 1973-74 | | | | | +11,226 | 175,497 | 60,083 | 104,189 | 7.9 |
| 1974–75 | • | • | • | • | +27,547 | 161,274 | 35,247 | 98,480 | 7.3 |
| | | | | _ | | CHEESE | | | |
| 1970-71 | | | | | -12,516 | 77,566 | 38,382 | 51,700 | 4.1 |
| 1971-72 | | | | | - 6,302 | 80,871 | 33,378 | 53,795 | 4.2 |
| 1972-73 | | | | | + 3,207 | 93,441 | 29,600 | 60,634 | 4.6 |
| 1973-74 | | | | | - 5,506 | 95,793 | 38,055 | 63,244 | 4.8 |
| 1974-75 | | | | | - 5,023 | 98,789 | 34,260 | 69,552 | 5.2 |

⁽a) Balance figure (includes imports). (b) Includes ships' stores; figures for butter include dry butter fat, ghee and tropical spread expressed as butter.

Average returns from butter and cheddar cheese sold

The table below shows rates realised on local, interstate and overseas sales and the average equalisation and subsidy rates in operation for the years ended June 1971 to 1976.

BUTTER AND CHEDDAR CHEESE: RATES REALISED ON SALES, AVERAGE EQUALISATION RATES AND RATES OF COMMONWEALTH SUBSIDY UNDER DAIRYING INDUSTRY ACTS

(Source: Commonwealth Dairy Produce Equalisation Committee Ltd)
(Cents per kg—product basis)

| | | Rates realise | ed on sales | 400000 | | Rate of overall | | |
|----------------|-------------|---------------|-------------|--------------------|----------|-----------------------------------|----------------|--------------------------------|
| Year | | Intrastate | Interstate | Manu- facturing | Overseas | Average equalisa- tion rate | Rate of bounty | return to manu- facturer |
| Butter- | | | | | | | | |
| 1970-71 . | | 101.25 | 96.86 | 63.25 | 51.59 | 76.57 | 18.50 | 95.07 |
| 1971-72 . | | 104.72 | 100.63 | 65.41 | 60.57 | 83.83 | 17.61 | 101.44 |
| 1972-73 . | | 105.09 | 99.94 | 65.69 | 54.17 | 79.32 | 12.24 | 91.56 |
| 1973-74 . | | (a) | (a) | (a) | (a) | (b)80.02 | (b)8.47 | (b)88.49 |
| 1974-75(c) | | (a) | (a) | (a) | (a) | (b)88.80 | (b)4.50 | (b)93.30 |
| 1975–76(c) | | (a) | (a) | (a) | (a) | (b)78.99 | (d) | (b)78.99 |
| Cheddar cheese | | () | () | • • • | • • • | (-) | • • • | • / |
| 1970-71 . | | | 63.80 | | 36.44 | 52.40 | 8.35 | 60.75 |
| 1971-72 . | | | 71.76 | | 48.33 | 61.95 | 8.41 | 70.36 |
| 1972-73 . | | | 79.83 | | 46.30 | 67.18 | 5.83 | 73.01 |
| 1973-74 . | | | (a) | | (a) | (b)71.85 | 4.06 | (b)75.91 |
| 1974-75 . | | | (a) | | (a) | (b)81.49 | (b)2.15 | (b)83.64 |
| 1975-76 . | | | (a) | | (a) | (b)78.99 | (d) | (b)78.99 |

⁽a) Not yet available. (b) Interim Rates. (c) Modified equalisation arrangements are operative from the 1974-75 season (in respect of disposals ex production); differing equalisation rates apply as between the States. (d) Bounty ceased 1974-75.

The distribution between factory and farm of the overall return to manufacturers for butter is shown in the following table.

COMMERCIAL BUTTER: AVERAGE OVERALL RETURNS AUSTRALIA

(Source: Commonwealth Dairy Produce Equalisation Committee Ltd)
(Cents per kg)

| | | | | (************************************** | | |
|---------|--|---|---|---|------------------------------------|---------------------------|
| Year | | - | | Rate of overall return to manufacturer | Estimated manufacturing cost | Return to dairy farmer |
| 1971-72 | | | • | 101.44 | 11.38 | (a)90.07 |
| 1972-73 | | | | 91.56 | 11.81 | (a)79.75 |
| 1973-74 | | | | (a)88.49 | (a)13.18 | (a)75.31 |
| 1974-75 | | | | (a)93.30 | (a)14.21 | (a)79.09 |
| 1975–76 | | | | (a)88.50 | (a)16.34 | (a)72.16 |
| | | | | | | |

(a) Interim rates.

Overseas trade in dairy products

The production of butter and cheese in Australia is considerably in excess of local requirements, and consequently a substantial surplus is available for export overseas. In normal circumstances the extent of this surplus is chiefly dependent upon seasonal conditions.

Exports of butter in 1974-75 amounted to 32.6 million kg, compared with 62.5 million kg in 1973-74. Exports of cheese in these years were 34.2 million kg and 43.7 million kg respectively. The principal importing country for Australian butter in 1974-75 was Canada, accounting for 34.9 per cent of total exports. In 1974-75 Japan was the principal importing country for Australian cheese with 53.7 per cent of total shipments.

All butter and cheese exported comes under the provisions of the Exports (Dairy Produce) Regulations and is subject to supervision, inspection and examination by officers appointed for that purpose. These commodities are graded according to quality, which has been fixed by regulation as follows: flavour and aroma, 50 points; texture, 30 points; and condition, 20 points. Butter and cheese graded at 93 to 100 points is of choicest quality; at 90 to 92 points, first quality; butter at 88 to 89, cheese at 86 to 89 points, second quality; and butter at 83 to 85 points, pastry or cooking quality.

In the following table, particulars are given of the relative proportions of butter and cheese graded for export according to quality.

BULK BUTTER AND CHEESE GRADED FOR EXPORT: AUSTRALIA

| | Quantity (| ('000 kg) | | Per cent | | |
|-----------------------|--------------|--------------|--------------|------------|------------|-------------|
| Grade | 1972–73 | 1973-74 | 1974-75 | 1972–73 | 1973–74 | 1974-75 |
| | | BUTTER(| 7) | | | |
| Choicest quality | 48,986 | 37,144 | 27,574 | 93.1 | 94.7 | 86.4 |
| First quality | 2,897 723 | 1,769 309 | 3,561 771 | 5.5 1.4 | 4.5 0.8 | 11.2 2.4 |
| Total | 52,606 | 39,222 | 31,905 | 100.0 | 100.0 | 100.0 |
| | | CHEESE | | | | |
| Bulk cheddar— | | | | | | |
| Choicest quality | 10,682 | 17,057 | 14,940 | 30.9 | 59.7 | 64.7 |
| First quality | 7,439 | 7,513 | 3,737 | 21.5 | 26.4 | 16.2 |
| Second quality(b) | 683 | 660 | 152 | 2.0 | 2.3 | 0.7 |
| Other bulk cheese | 15,750 | 3,323 | 4,265 | 45.6 | 11.6 | 18.4 |
| Total | 34,554 | 28,553 | 23,094 | 100.0 | 100.0 | 100.0 |

(a) Includes unsalted. (b) Includes rejected.

Note—Bulk butter and cheese graded for export during one year is not necessarily exported during that year.

Exports of butter, cheese and other milk products of Australian origin are shown in the following table.

EXPORTS OF DAIRY PRODUCTS: AUSTRALIA

| | | | Quantity (| '000 kg) | | Value (\$'0 | 00 f.o.b.) | |
|------------------------|-------|---------|------------|----------|---------|-------------|------------|---------|
| | | | 1972–73 | 1973–74 | 1974–75 | 1972–73 | 1973-74 | 1974-75 |
| Butter(a) Cheese(b)— | • | | 57,828 | 37,867 | 18,941 | 47,966 | 27,199 | 19,508 |
| Processed(c). | | | 8,092 | 9,267 | 10,946 | 8,359 | 9,300 | 15,258 |
| Other— | | | | | | | | |
| Cheddar and epicu | ıre | | | | | | | |
| cheddar . | | | 17,627 | 22,846 | 17,386 | 10,597 | 15,554 | 14,298 |
| Parmesan (incl. par | rmigi | ano | • | - | | • | • | • |
| and reggiono) | | | . 91 | 82 | 438 | 132 | 127 | 414 |
| Other | | | 3,759 | 5,835 | 5,460 | 2,601 | 3,956 | 4,666 |
| Total cheese | | | 29,568 | 38,031 | 34,230 | 21,689 | 28,936 | 34,634 |
| Other milk products(b) | | | | | | | | |
| Preserved, condense | | On- | | | | | | |
| centrated, etc.— | .u, u | | | | | | | |
| Sweetened . | | | 2,042 | 1,534 | 2,451 | 900 | 730 | 1,397 |
| Unsweetened | • | • | 2,588 | 2,166 | 3,471 | 978 | 838 | 1,448 |
| | baby | • | 2,500 | 2,100 | 5,771 | 7,0 | 050 | 1,-1-10 |
| foods, dried . | Jaby | | 8,435 | 8,235 | 8.879 | 5,996 | 6,139 | 7,455 |
| Carita 1 | • | • | 15,013 | 20,480 | 6,119 | 10,882 | 16,118 | 6,439 |
| Dried or powdered— | • | • | 13,013 | 20,700 | 0,119 | 10,002 | 10,110 | 0,433 |
| Full cream . | _ | | 19,487 | 22,335 | 27,238 | 14,352 | 17,111 | 27,440 |
| | • | • | | | | | 39,196 | , |
| Skim | • | • | 48,030 | 94,114 | 67,031 | 18,700 | 39,190 | 43,530 |

⁽a) Excludes butter concentrate, ghee and ships' stores.

Buffaloes

Buffaloes were introduced into northern Australia, at Melville Island in 1825 and the Coburg Peninsula (Fort Wellington) in 1827 during attempts to establish settlements. In 1838 and later years shipments of buffaloes, mainly from Timor and the other Indonesian islands, were landed at Victoria Settlement. As buffaloes were ideally suited to the tropical region of the Northern Territory, they survived when the early settlements were abandoned, and multiplied rapidly in the coastal plains regions. It is estimated that there are now more than 200,000 buffaloes in the Northern Territory, predominantly along the coastal plains east of Darwin, although small groups have been known to wander further southwards.

Initially buffaloes were hunted for their hides. The demand for hides reached a peak in 1937 when about 17,000 buffaloes were slaughtered. Over the next 20 years the demand for hides declined considerably and there is no longer any demand for buffalo hide.

Commercial production of buffalo meat began in 1960 when a buffalo abattoir was established at Marrakai Creek, Northern Territory. The meat was used for pet food at first and in the following year slaughtering for human consumption commenced. During 1974–75 15,392 buffaloes were slaughtered for meat production valued at \$593,216.

Although a domesticated animal in south-east Asia, the buffalo has reverted to its wild state in the Northern Territory. Attempts to domesticate the beast have largely been abandoned, with the annual agricultural census showing the number of domesticated buffaloes at: 7,843 in 1972; 5,189 in 1973: 4.418 in 1974 and 3,171 in 1975.

During 1974, for the first time, live buffaloes were exported overseas for breeding purposes. In 1974-75 120 were exported to Papua New Guinea, 406 to Venezuela, 128 to Brunei and 200 to Nigeria, a total of 854 beasts valued at \$51,240. The 1975-76 year has seen the addition of Guyana to countries receiving live buffalo stock. Australia is currently the only supplier of buffalo breeding stock.

In 1975 Mudginberri Station commenced exporting buffalo meat to West Germany where it is sold as game meat. In 1976 Point Stuart was also granted an export licence and it too is providing meat for the German market.

⁽b) Excludes ships' stores.

⁽c) Includes pastes and

The pig industry

In line with the general trend of increased specialisation common to most of the rural industries, pig farming has developed into a separate industry being no longer mainly associated with the dairy industry.

In 1971, a research scheme was established for the Australian pig industry. It is similar to those already operating for the benefit of other major rural industries such as wool, meat, wheat, dairy, tobacco, poultry and the dried fruit industries. Finance is provided from a levy of 5 cents per head on all pig slaughterings and this is matched, on a dollar for dollar basis from Commonwealth Government sources. Funds available for research are \$514,839 for 1974-75.

The research program is administered by a Pig Industry Research Committee. This Committee, which is representative of the industry and research organisations, makes recommendations to the Minister for Primary Industry relating to the rate of levy and expenditure from the Pig Industry Research Trust Fund.

Distribution throughout Australia

At 31 March 1973 the number of pigs in Australia reached a record level of 3,259,397 which represented an increase of 60,714 (1.9 per cent) on the previous record at 31 March 1972 (3,198,683). The number of pigs has since declined to 2,172,762 at 31 March 1976.

NUMBER OF PIGS

| At 31 | Mar | ch | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|-------|-----|----|-------------|---------|---------|---------|---------|---------|-------|--------|-----------|
| 1972 | | | . 1,059,331 | 589,992 | 534,502 | 478,874 | 427,061 | 103,934 | 4,862 | 127 | 3,198,683 |
| 1973 | | | 1,064,678 | 585,227 | 541,827 | 499,461 | 476,316 | 85,114 | 6,662 | 112 | 3,259,397 |
| 1974 | | | 834,678 | 424,248 | 441,463 | 385,158 | 343,623 | 68,379 | 7,826 | 43 | 2,505,418 |
| 1975 | | | . 729,209 | 383,144 | 400,435 | 348,955 | 264,157 | 63,973 | 7,310 | 36 | 2,197,219 |
| 1976p | • | | . 708,785 | 392,834 | 408,548 | 325,924 | 259,851 | 69,773 | 7,047 | n.a. | 2,172,762 |

A long-term comparison of pig numbers is given earlier in this chapter (see page 791). A map showing the distribution of pigs in Australia at 31 March 1963 faces page 1083, Year Book, No. 50 and a graph showing the number of pigs in Australia from 1880 onwards appears on plate 52 of this Year Book (see page 793).

Pigs slaughtered

PIGS SLAUGHTERED ('000)

| | | | Slaughter | ings passed | for huma | n co n sump | tion | | | | | Total slaughter- ings including |
|--|---|---|---------------------------------------|---------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|------------------------|----------------------------|---|--|
| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. | boiled down |
| 1971-72 1972-73 1973-74 1974-75 1975-76p | : | : | 1,094 1,324 1,166 979 945 | 1,051 1,210 1,081 969 883 | 794 964 829 634 690 | 436 527 448 344 348 | 367 538 497 389 350 | 165 152 116 101 95 | 4 5 9 8 10 | 17 24 24 23 19 | 3,928 4,743 4,170 3,447 3,339 | 3,942 4,763 4,187 3,460 n.a. |

Production of pigmeat, bacon and ham

PRODUCTION OF PIGMEAT (CARCASS WEIGHT)

| (tonnes) | | |
|----------|--|--|
| | | |
| | | |

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|---|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|---------------------------------|---------------------------------|---|
| 1971-72 1972-73 1973-74 1974-75 1975-76p | • | : | 49,722 59,644 54,161 46,077 45,037 | 51,506 60,486 54,336 48,641 | 41,151 49,760 43,333 33,487 | 23,095 27,482 24,195 18,697 | 19,963 30,360 28,269 22,078 | 8,267 7,389 5,477 4,872 4,539 | 130 168 345 350 407 | 644 884 920 870 740 | 194,478 236,173 211,036 175,072 175,699 |

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PRODUCTION OF BACON AND HAM (CURED CARCASS WEIGHT) (tonnes)

| Year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust |
|------------|------------|--------|--------|-------|-------|------|--------|
| 1970–71— | | | | | | | |
| (bone in) | 10,877 | 4,479 | 5,616 | 1,115 | 1,678 | 915 | 24,68 |
| (bone out) | 4,973 | 8,788 | 5,620 | 3,506 | 3,124 | 545 | 26,550 |
| 1971-72- | • | | • | , | • | | , |
| (bone in) | 10,488 | 3,449 | 5,062 | 1,051 | 1,406 | 755 | 22,210 |
| (bone out) | 5,849 | 10,049 | 7,088 | 3,934 | 3,562 | 767 | 31,249 |
| 1972-73- | , | • | • | | , | | , |
| (bone in) | 11,611 | 3,176 | 6,548 | 1.252 | 1,446 | 746 | 24,779 |
| (bone out) | 6,622 | 11,598 | 7,950 | 3,828 | 3,765 | 729 | 34,492 |
| 1973-74 | , | • | · | • | • | | , |
| (bone in) | 10,098 | 3,190 | 6,289 | 1.355 | 1,472 | 738 | 23,143 |
| (bone out) | 9,788 | 14,602 | 10,833 | 3,659 | 3,921 | 735 | 43,540 |
| 1974-75- | , | • | · | , | • | | - , |
| (bone in) | 6,135 | 2,880 | 5.189 | 1.075 | 1,535 | 824 | 17,638 |
| (bone out) | 10,388 | 15,805 | 6,864 | 3,280 | 3,882 | 842 | 41,060 |

Value of pigs slaughtered

GROSS VALUE OF PIGS SLAUGHTERED, 1974-75 (\$'000)

| N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--------|--------|--------|--------|--------|-------|------|--------|---------|
| 58,022 | 42,511 | 30,941 | 23,435 | 16,936 | 5,625 | 268 | 3 | 177,741 |

GROSS VALUE OF PIGS SLAUGHTERED: AUSTRALIA (\$'000)

| 1970-71 | 1971–72 | 1972–73 | 1973~74 | 1974-75 |
|---------|---------|---------|---------|---------|
| 104,992 | 111,199 | 123,730 | 172,958 | 177,741 |

Consumption of pigmeat, bacon and ham

The apparent consumption of pigmeat decreased from 7.8 kg per head in 1973-74 to 5.2 kg in 1974-75. A table showing the consumption of all types of meat is shown on page 802.

PRODUCTION AND DISPOSAL OF PIGMEAT (CARCASS WEIGHT)

Apparent consumption (as pork or smallgoods) in Australia

| Year | | | Change in stocks(a) | Production | Exports | Curing and canning | Total | Per head per year |
|---------|------|---|---------------------|-------------|-------------|--------------------|-------------|----------------------|
| | | | '000 tonnes | '000 tonnes | '000 tonnes | '000 tonnes | '000 tonnes | kg |
| 1970-71 | | | - 0.9 | 181.7 | 1.7 | 93.3 | 87.6 | 6.9 |
| 1971-72 | | | +1.7 | 194.5 | 3.8 | 100.1 | 88.8 | 6.9 |
| 1972-73 | | | +1.8 | 236.2 | 20.1 | 111.0 | 103.2 | 7.9 |
| 1973-74 | | | -2.4 | 211.0 | 8.6 | 100.8 | 103.9 | 7.8 |
| 1974–75 | | • | -0.2 | 175.1 | 1.1 | 104.0 | 70.1 | 5.2 |

PRODUCTION AND DISPOSAL OF BACON AND HAM (CURED CARCASS WEIGHT) AUSTRALIA

| | | | | | | | Apparent consumpt in Austra | |
|---------|---|---|---------------------|------------|---------|---------|-----------------------------------|----------------------|
| Year | | | Change in stocks | Production | Exports | Canning | Total | Per head per year |
| | | | ,000 | 000' | '000 | '000 | '000 | |
| | | | tonnes | tonnes | tonnes | tonnes | tonnes | kg |
| 1970-71 | | | | 67.2 | 0.3 | 8.2 | 58.7 | 4.6 |
| 1971-72 | | | +0.1 | 72.3 | 0.3 | 8.0 | 63.9 | 5.0 |
| 1972-73 | | | | 80.3 | 0.3 | 8.2 | 71.8 | 5.5 |
| 1973-74 | | | +0.1 | 82.5 | 0.4 | 9.2 | 72.9 | 5.5 |
| 1974-75 | - | · | +0.5 | 75.1 | 0.4 | 6.9 | 67.3 | 5.0 |

A table showing the consumption of all types of meat appears on page 802.

Exports of pigs and pig products

EXPORTS OF PIGS AND PIG PRODUCTS: AUSTRALIA

| | | | | Quantity | | | Value (\$'0 | | |
|---------------|---------|-----------|--------------------|-----------|------------|-----------|-------------|------------|---------|
| | | | | 1972-73 | 1973-74 | 1974-75 | 1972–73 | 1973-74 | 1974-75 |
| | | | | | | | | | |
| Bacon and ham | (inclu | ling | 1000 1 | | 5.40 | 500 | | 012 | 1.047 |
| canned) . | (includ | ding | '000 kg | 401 | 549 | 583 | 575 | 813 | 1,047 |
| | (includ | ling • | '000 kg '000 kg | 401 14 | 549 485 | 583 92 | 575 6 | 813 150 | 32 |
| canned) . | (includ | ding | | | | | | | , |

The poultry industry

Once part of the mixed farming sector, the poultry industry is now a highly specialised and distinct industry. The bulk of production is obtained from this commercial source, though many farm households and some private homes in suburban areas keep poultry to supply their domestic needs and some supplies from this source are also marketed. Because the data from this latter sector is incomplete, total poultry numbers for Australia are not available. There is an increasing tendency for specialisation within the industry into hatcherymen, egg producers and broiler producers. These sectors of the industry each have separate statistics. There are also separate research schemes for the egg and meat chicken industries. Both sectors are good examples of the general movement towards specialised, large scale capital intensive production which is common to all rural industries.

Poultry numbers

POULTRY NUMBERS(a): AT 31 MARCH 1976 ('000)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|----------|-------|-------|-------|-------|------|------|--------|--------|
| Hens and pullets for e production . Meat strain chickens | . 6,754 | 3,723 | 2,240 | 1,410 | 1,344 | 300 | 10 | 133 | 15,915 |
| (broilers) . Other fowls and oth | . 19,924 | 4,680 | 3,225 | 2,849 | 2,209 | 239 | | • • | 33,126 |
| chickens | . 640 | 344 | 357 | 126 | 64 | 34 | | | 1,566 |
| Total | . 27,319 | 8,747 | 5,823 | 4,385 | 3,617 | 574 | 10 | 133 | 50,608 |
| Ducks | . 185 | 28 | 5 | 18 | 15 | 2 | | | 254 |
| Turkeys | . 294 | 19 | 2 | 12 | 5 | 1 | • • | • • | 333 |

⁽a) The table represents numbers of poultry on agricultural holdings as reported in the agricultural census.

Chicken hatchings and poultry slaughterings

Statistics shown in the following section have been compiled from returns supplied by commercial chicken hatcheries (i.e. those making sales of day-old chicks) and by commercial poultry slaughtering establishments. Poultry farmers hatching chicks solely for replenishing their own flocks, producers in the Northern Territory and the many very small producers are excluded from the collection. However, the statistics represent a high level of coverage in respect of commercial hatcheries and slaughtering establishments.

Poultry slaughtered for human consumption

No allowance has been made in the following figures for interstate movement of dressed poultry or changes in stocks held, and figures therefore do not necessarily represent the level of consumption in the States concerned.

Statistics for poultry slaughtered in Queensland are based on numbers slaughtered as collected by the Queensland Department of Primary Industries. New South Wales slaughtering statistics include poultry slaughterings by producers in the Australian Capital Territory.

NUMBERS OF POULTRY SLAUGHTERED FOR HUMAN CONSUMPTION ('000)

| Year | | | | | Chickens(a) | Other fowls(b) | Ducks and drakes | Turkeys |
|----------|----------|------|---|---|-------------|-------------------|---------------------|------------|
| 1974-75- | - | | | | | | | |
| New So | uth W | ales | | | 59,176 | 3,639 | (c) | (c) |
| Victoria | ι. | | | | 26,324 | 2,044 | 104 | ` <u>ģ</u> |
| Oueensl | and | | | | 17,764 | 1,554 | (c) | (c) |
| South A | Lustrali | a | | | 15,249 | 524 | 24 | `ź |
| Western | Austr | alia | | | 13,767 | (c) | (c) | (c) |
| Tasman | ia . | • | | • | 1,895 | (c) | (c) | (c) |
| Aus | stralia | | • | | 134,175 | 8,600 | 1,283 | 1,891 |
| 1973–74 | | | | | 139,765 | 7,894 | 1,195 | 2,216 |
| 1972-73 | | | | | 113,220 | 7,930 | 1,274 | 2,134 |
| 1971-72 | | | | | 113,296 | 8,803 | 1,375 | 1,353 |
| 1970-71 | | | | | 103,907 | 7,581 | 1,214 | 1,440 |

⁽a) Comprises broilers, fryers and roasters.

DRESSED WEIGHT OF POULTRY SLAUGHTERED FOR HUMAN CONSUMPTION(a) ('000 kg)

| ear | | Chickens(b) | Other fowls(c) | Ducks and drakes | Turkeys | Total | |
|--------------------|---|-------------|-------------------|---------------------|---------|-------|---------|
| 1974–75— | | | | | | | |
| New South Wales | | | 74,518 | 5,816 | (e) | (e) | 89,380 |
| Victoria | | | 33,140 | 3,196 | 166 | (e) | 36,544 |
| Queensland (d) . | | | 23,096 | 2,477 | (e) | (e) | 25,611 |
| South Australia . | | | 16,773 | 834 | ší | 31 | 17,689 |
| Western Australia | | | 16,121 | (e) | (e) | (e) | 17,714 |
| Tasmania | • | | 2,340 | (e) | (e) | (e) | 2,503 |
| Australia . | | • | 165,989 | 13,706 | 2,136 | 7,609 | 189,440 |
| 1973-74 | | | 171,268 | 12,405 | 1,990 | 7.776 | 193,439 |
| 1972–73 | | | 138,320 | 12,510 | 2,174 | 7,769 | 160,773 |
| 1971-72 | | • | 141,700 | 14,367 | 2,246 | 4,968 | 163,281 |
| 1970–71 | | | 131,046 | 12,383 | 2,068 | 6,020 | 151,518 |

⁽a) Dressed weight of whole birds, pieces and giblets. (b) Comprises dressed weight of broilers, fryers and roasters. (c) Comprises dressed weight of hens, roosters. etc. (d) Estimated. (e) Not available for publication.

⁽b) Comprises hens, roosters, etc.

⁽c) Not available for publication.

Value of poultry slaughtered

GROSS VALUE OF POULTRY SLAUGHTERED(a): 1974-75 (\$'000)

| N.S.W.(b) | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|-----------|--------|--------|--------|--------|-------|------|---------|
| 65,405 | 28,296 | 17,575 | 13,723 | 12,830 | 1,970 | 9 | 139,808 |

(a) Includes adjustment for net exports (overseas and interstate) of livestock.

(b) Includes A.C.T.

GROSS VALUE OF POULTRY SLAUGHTERED(a): AUSTRALIA (\$'000)

| 1970–71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|---------|---------|---------|---------|---------|
| 84,167 | 89,840 | 90,621 | 132,476 | 139,808 |

⁽a) Includes adjustment for net exports (overseas and interstate) of livestock.

Chicken hatchings in commercial hatcheries

Details contained in the following tables relate to all eggs set and to chicks hatched in commercial hatcheries whether for sale as day-old chicks or for replenishment of own flocks.

NUMBER OF EGGS SET(a) IN COMMERCIAL HATCHERIES

| | | | | | (1000) | | | | |
|----------|---|---|--------|--------|-----------|--------|------------|-------|---------|
| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust |
| | | | | M | EAT STRAI | NS | | | |
| 1971–72 | | | 73,707 | 35,097 | 21,647 | 13,253 | (b) | (b) | 161,645 |
| 1972-73 | | | 77,409 | 36,487 | 23,095 | 12,944 | (b) | (b) | 168,607 |
| 1973–74 | | | 95,578 | 41,902 | 26,275 | 17,529 | (b) | (b) | 202,790 |
| 1974–75 | | | 81,751 | 34,773 | 23,773 | 20,448 | (b) | (b) | 181,300 |
| 1975-76p | ٠ | ٠ | 89,167 | 40,738 | 26,698 | 21,884 | (b) | (b) | 201,547 |
| | | | | E | GG STRAII | NS | | | |
| 1971–72 | | | 18,238 | 14,251 | 10,755 | 4,933 | 3,606 | 977 | 52,759 |
| 1972-73 | | | 16,840 | 14,354 | 9,769 | 3,739 | 3,321 | 926 | 48,950 |
| 1973-74 | | | 14,406 | 17,657 | 9,155 | 4,842 | 3,858 | 1,173 | 51,091 |
| 1974–75 | | | 12,988 | 14,925 | 7,708 | 4,260 | 3,587 | 843 | 44,310 |
| 1975-76p | | | 13,719 | 11,480 | 6,802 | 4,585 | 3,346 | 874 | 40,804 |

⁽a) Includes eggs which failed to hatch.

⁽b) Not available for publication.

THE POULTRY INDUSTRY

CHICKENS HATCHED(a) IN COMMERCIAL HATCHERIES (000)

| Year | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust |
|---------|---|---|---------|-----------|--------------|---------------|---------|------|---------|
| | | | INTENDE | D FOR CH | ICKEN ME | ATMEAT | STRAINS | | |
| | | _ | | | (Unsexed) | | | | |
| 971–72 | | | 54,209 | 26,951 | 16,360 | 10,431 | (b) | (b) | 121,563 |
| 972-73 | | • | 56,246 | 27,746 | 17,418 | 10,131 | (b) | (b) | 125,822 |
| 973–74 | | | 70,019 | 32,089 | 20,268 | 13,385 | (b) | (b) | 151,654 |
| 974–75 | | | 62,026 | 27,306 | 18,928 | 16,089 | (b) | (b) | 140,139 |
| 975-76p | • | • | 68,222 | 33,219 | 20,925 | 17,789 | (b) | (b) | 158,084 |
| | | | INTENDI | ED FOR CH | HICKEN M | EAT—EGG | STRAINS | | |
| | | | | (Crossbr | ed and other | cockerels)(c) |) | | |
| 971–72 | | | 517 | 431 | 507 | 117 | 49 | 50 | 1,670 |
| 972-73 | | | 523 | 489 | 675 | 103 | 43 | 18 | 1,853 |
| 973-74 | | | 472 | 351 | 633 | 95 | 38 | 12 | 1,602 |
| 974-75 | | | 237 | 316 | (b) | 65 | (b) | 13 | 856 |
| 975-76p | • | ٠ | 182 | 192 | (b) | 25 | (b) | 32 | 573 |
| | | | INTENDE | FOR EGG | G PRODUC | TIONEGO | STRAINS | _ | |
| | | | | | (Pullets)(c) | | | | |
| 971–72 | | | 5,889 | 4,861 | 3,484 | 1,876 | 1,268 | 302 | 17,680 |
| 972-73 | | | 5,129 | 4,875 | 3,126 | 1,409 | 1,223 | 317 | 16,078 |
| 973-74 | | | 4,757 | 6,028 | 3,154 | 1,769 | 1,359 | 426 | 17,492 |
| 974-75 | | | 4,483 | 5,004 | 2,763 | 1,723 | 1,321 | 340 | 15,634 |
| 975-76p | | | 4,648 | 4,012 | 2,601 | 1,807 | 1,200 | 354 | 14,621 |

⁽a) Excludes chicks destroyed, chicks.

Recorded production of eggs and egg products

Statistics of the production and disposal of eggs in Australia are recorded by the Australian Egg Board and the Egg Marketing Board of New South Wales. Details of production as recorded by these authorities are shown in the following table.

SHELL EGGS: PRODUCTION(a) RECORDED BY EGG BOARDS ('000 dozen)

| State | | | | 1970-71 | 1971-72 | 1972–73 | 1973–74 | 1974-75 |
|-------------------|----|------|---|---------|---------|---------|---------|---------|
| New South Wales(| b) | | | 89,663 | 91,100 | 87,782 | 83,315 | 81,221 |
| Victoria . | | | | 53,339 | 55,518 | 50,940 | 48,287 | 51,339 |
| Queensland . | | | | 25,305 | 25,031 | 26,985 | 28,365 | 30,699 |
| South Australia | | | | 19,440 | 20,515 | 18,769 | 18,034 | 18,940 |
| Western Australia | | | | 14,501 | 16,897 | 14,346 | 14,285 | 17,325 |
| Tasmania . | | • | • | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total(c) | | | | 202,249 | 209,061 | 198,822 | 192,286 | 199,525 |

⁽a) Receipts from consignors and sales by producer agents. (b) Includes Australian Capital Territory. Tasmania.

⁽b) Not available for publication. (c) Includes a proportion of unsexed egg strain

Value of egg production

GROSS VALUE OF EGG PRODUCTION: 1974-75 (\$'000)

| N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--------|--------|--------|--------|--------|-------|------|--------|---------|
| 68,644 | 44,331 | 24,535 | 14,043 | 12,032 | 4,903 | 853 | 2,400 | 171,741 |

GROSS VALUE OF EGG PRODUCTION: AUSTRALIA (\$'000)

| 1970–71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|---------|---------|---------|---------|---------|
| 111,155 | 110,874 | 117,359 | 147,788 | 171,741 |

Egg pulp production

Particulars of the production of egg pulp and powder as recorded by the Egg Marketing Board for the State of New South Wales and by the Australian Egg Board for the other States are shown in the following table.

EGG PULP AND POWDER: PRODUCTION RECORDED BY EGG BOARDS ('000 kg)

| State | | | | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
|-------------------|-----|----|---|---|---------|---------|---------|---------|---------|
| New South Wales | | | | | 12,922 | 10,331 | 5,517 | 4,731 | 6,600 |
| Victoria . | | | | | 8,334 | 9,122 | 2,475 | 3,379 | 4,670 |
| Oueensland . | | | | | 3,439 | 2,754 | 3,041 | 3,249 | 5,093 |
| South Australia | | | | | 3,691 | 4,176 | 2,021 | 2,406 | 3,317 |
| Western Australia | • . | | | • | 1,353 | 2,442 | 1,085 | 711 | 1,732 |
| Tasmania . | • | ٠, | • | • | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total(a) | | | | | 29,738 | 28,825 | 14,139 | 14,476 | 21,412 |

(a) Excludes Tasmania.

In addition to egg pulp and powder, production was also recorded for liquid egg whites and liquid egg yolks. Output in 1974-75 amounted to 5,849,000 kg and 4,522,000 kg respectively, compared with 5,922,000 kg and 4,492,000 kg respectively, in the previous year. These figures exclude small quantities produced in Tasmania for which details are not available.

Consumption of eggs and egg products

Because of the operation of producers outside the control of the Egg Boards and the extent of 'back-yard' poultry-keeping, for which no statistics are collected, figures relating to total egg production must be accepted with some reserve. The production shown in the following table, together with details of exports and consumption, is based upon the records of Egg Boards for production from areas under their control, plus estimates of production from uncontrolled areas and from 'back-yard' poultry-keepers.

ESTIMATED PRODUCTION AND DISPOSAL OF EGGS IN SHELL: AUSTRALIA

| | | | Estimated | | Fra Justice | Apparent co in Australia | nsumption | |
|---------|------|-------------------------|------------------|------------|---------------------------------|-----------------------------|----------------------|--|
| Year | | Change in stocks | total production | Exports(a) | For drying and pulping(b) | Total | Per head per year | |
| | | mil. doz | mil. doz | mil. doz | mil. doz | mil. doz | doz | |
| 1969-70 | | | 271.4 | 5.1 | 53.6 | 212.6 | 17.1 | |
| 1970-71 | | +0.2 | 287.0 | 5.1 | 64.8 | 216.9 | 17.1 | |
| 1971-72 | | +0.4 | 296.1 | 6.9 | 67.9 | 220.9 | 17.1 | |
| 1972-73 | | -0.1 | 283.9 | 6.5 | 52.8 | 224.6 | 17.2 | |
| 1973-74 | | +0.7 | 277.8 | 3.1 | 46.2 | 227.8 | 17.2 | |

⁽a) Includes ships' stores.

Details of the annual consumption of shell eggs, egg pulp and powder and total shell egg equivalent per head of population are shown in the following table.

SUPPLIES OF EGGS AND EGG PRODUCTS AVAILABLE FOR CONSUMPTION: AUSTRALIA

(Per head per year)

| | Fare | | Egg pulp and | Total | | | |
|---------|------|--|------------------|-----------|--------|-----------|------|
| Year | | | Eggs in shell | powder(a) | Number | Weight(b) | |
| | | | | number | number | | kg |
| 1969-70 | | | | 206 | 14 | 220 | 12.5 |
| 1970-71 | | | | 206 | 14 | 220 | 12.4 |
| 1971-72 | | | | 206 | 12 | 218 | 12.3 |
| 1972-73 | | | | 206 | 12 | 218 | 12.4 |
| 1973-74 | | | _ | 206 | 13 | 219 | 12.4 |

⁽a) In terms of number of eggs in shell. is taken as 56.7g.

Overseas trade in poultry products

Australian exports of shell eggs in 1974-75 amounted to 2,345,000 dozen compared with 2,203,000 dozen in 1973-74. The main outlets for Australian eggs in 1974-75 were Hong Kong (579,000 dozen), Kuwait (443,000 dozen), United Arab Emirates (543,000 dozen), and Papua New Guinea (294,000 dozen).

EXPORTS OF POULTRY PRODUCTS: AUSTRALIA

| | | | Quantity | | | Value (\$'000 f.o.b.) | | | |
|-----------------------------------|----------|----------|----------|---------|---------|-----------------------|---------|---------|--|
| | | | 1972–73 | 1973–74 | 1974-75 | 1972-73 | 1973-74 | 1974-75 | |
| Eggs in shell. Eggs not in shell- | <u>.</u> | '000 doz | 5,552 | 2,203 | 2,345 | 1,470 | 872 | 951 | |
| In liquid form | | '000 kg | 23,728 | 14,075 | 12,674 | 9,578 | 5,521 | 7,229 | |
| Dry | | '000 kg | 282 | 436 | 107 | 458 | 654 | 121 | |
| Frozen poultry | | '000 kg | 3,963 | 4,861 | 5,106 | 2,483 | 3,309 | 4,279 | |
| Poultry, live(a) | | number | 379,952 | 436,496 | 251,123 | 214 | 250 | 165 | |

⁽a) Includes day-old chicks.

Imports of canned poultry in 1974-75 amounted to 254,000 kg, valued at \$261,000, compared with 148,000 kg, valued at \$129,000, in 1973-74.

⁽b) Includes wastage.

⁽b) The average weight of an egg in Australia

Horses

The number of horses on rural holdings in Australia reached a peak of 2,527,000 in 1919. Since then it has declined, because of mechanisation of transport and farming, and the number recorded at 31 March 1970 was 456,000. From 1970 particulars of horses will be collected only at decennial intervals in accordance with the world census by FAO.

A graph showing the number of horses in Australia since 1880 appears on plate 52, page 793.

Horse numbers

NUMBER OF HORSES: 1930 TO 1970 ('000)

| 31 M | 31 March— | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------|-----------|--|--------|------|-----|------|------|------|------|--------|-------|
| 1930 | | | 535 | 393 | 500 | 189 | 160 | 34 | 34 | 1 | 1,846 |
| 1940 | | | 535 | 326 | 445 | 190 | 139 | 30 | 33 | 1 | 1,699 |
| 1950 | | | 342 | 200 | 317 | 83 | 59 | 21 | 33 | 1 | 1,057 |
| 1960 | | | 204 | 81 | 234 | 30 | 41 | 11 | 38 | 1 | 640 |
| 1970 | | | 136 | 53 | 173 | 16 | 29 | 6 | 41 | 1 | 456 |

Overseas trade in horses

Exports of Australian-bred horses in 1974–75 numbered 682, valued at \$2,755,000, made up of horses for breeding (174 valued at \$1,062,000), horses for racing (394 valued at \$1,608,000, shipped principally to Singapore, Hong Kong, the United States of America and New Zealand) and horses for other purposes (114 valued at \$85,000). Horses imported into Australia in 1974–75 (2,199 valued at \$13,833,000) were mainly from New Zealand and the United Kingdom.

Miscellaneous livestock products

Tallow

Details of tallow consumption are collected from the principal factories using tallow. Recorded usage of inedible tallow in factories for the years 1971-72, 1972-73 and 1973-74 was as follows; for soap making: 1971-72, 35,770,000 kg; 1972-73, 42,185,000 kg; 1973-74, 35,371,000 kg; for products other than soap: 1971-72, 12,333,000 kg; 1972-73, 11,117,000 kg; 1973-74, 14,197,000 kg. Details of edible tallow usage in factories are not available.

Particulars of exports of edible and inedible tallow of Australian origin are shown in the following table for the five years 1970-71 to 1974-75.

TALLOW: EXPORTS, AUSTRALIA, 1970-71 TO 1974-75 (tonnes)

| | _ | | 1970-71 | 1971–72 | 1972–73 | 1973-74 | 1974-75 |
|--------------------|-----|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Edible Inedible | ٠ | • | 17,727 139,151 | 17,011 199,675 | 17,329 179,942 | 10,729 136,783 | 19,783 137,114 |
| Tota | 1 . | | 156,878 | 216,686 | 197,271 | 147,512 | 156,897 |

Overseas trade in hides and skins

The value of cattle and horse hides, sheep and other skins, and skin pieces sent overseas during 1974-75 amounted to \$104,182,000, compared with a total of \$150,574,000 in 1973-74 and \$192,098,000 in 1972-73.

Beekeeping

Production of honey and beeswax

Although practised as a separate industry, beekeeping is also carried on in conjunction with other branches of farming. A feature of the industry is that it consists mainly of apiarists operating on a large scale with mobile equipment. Some of these apiarists move as far afield as from Victoria to Queensland in an endeavour to provide a continuous supply of nectar from flora suitable for their bees. Production of honey in 1974-75 amounted to 20,618,000 kg (58.7 kg per productive hive) compared with 21,189,000 kg (51.8 kg per productive hive) in 1973-74. Beeswax produced in 1974-75 was 325,000 kg compared with 322,000 kg in the previous year.

Statistics in the following tables relate to the operations for 1974-75 of apiarists with forty or more hives. Information for earlier years covers the operations of apiarists with five or more hives except in New South Wales with six or more hives. It is estimated that for 1974-75 apiarists with less than forty hives accounted for less than 1% of honey produced, but comprised more than 50% of the total number of apiarists throughout Australia.

BEEKEEPING: AUSTRALIA

| | | | | | Honey pro | | |
|----------------------|--------------------|------------------------------------|------|----------|------------------------------|--------------------|---------------------|
| | Number | Beehives | | | | Average production | Beeswax produced |
| Season | of apiarists(a) | Unproduc- Productive tive Total | | Quantity | per productive beehive | Quantity | |
| | | '000 | ,000 | '000 | '000 kg | kg | '000 kg |
| 1974-75 | | | | | | | |
| New South Wales | . 812 | 142 | 52 | 194 | 7,790 | 55.0 | 126 |
| Victoria | . 468 | 72 | 16 | 88 | 2,784 | 38.6 | 3 5 |
| Oueensland . | . 275 | 37 | 21 | 58 | 1,480 | 40.0 | 24 |
| South Australia . | . 498 | 86 | 15 | 101 | 5,428 | 63.2 | 96 |
| Western Australia | . 142 | 34 | 5 | 39 | 2,527 | 74.8 | 36 |
| Tasmania | . 62 | 9 | 1 | 11 | 574 | 62.1 | 8 |
| Australian Capital T | | • | - | | | | - |
| ritory | . 9 | 1 | | 1 | 53 | 51.4 | 1 |
| Australia | . 2,266 | 381 | 110 | 491 | 20,636 | 54.2 | 326 |
| 1970–71 | . 5,759 | 376 | 118 | 493 | 19,126 | 50.9 | 266 |
| 1971–72. | . 5,803 | 384 | 139 | 524 | 20,240 | 52.7 | 264 |
| 1972-73. | . 5,926 | 395 | 133 | 528 | 18,083 | 45.7 | 261 |
| 1973–74. | . 5,779 | 409 | 134 | 544 | 21,189 | 51.8 | 322 |

⁽a) See comments on coverage (in terms of bee-keepers included) above.

Value of honey and beeswax

GROSS VALUE OF HONEY AND BEESWAX 1974-75 (\$'000)

| | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Total |
|------------------|---|---|--------------|-------------|-----------|--------------|-----------|-----------|---------|--------------|
| Honey Beeswax | : | : | 3,587 220 | 1,493 45 | 735 41 | 2,094 129 | 935 65 | 423 14 | 37 1 | 9,304 515 |

GROSS VALUE OF HONEY AND BEESWAX: AUSTRALIA (\$'000)

| | | | | | | 1970-71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|--------------------|---|---|---|---|---|--------------|--------------|--------------|---------------|--------------|
| Honey . Beeswax | : | : | : | : | : | 4,362 337 | 6,136 320 | 8,130 294 | 11,768 525 | 9,304 515 |

Overseas trade in honey and beeswax

EXPORTS OF HONEY: AUSTRALIA

(Australian produce only)

| | Quantity | ('000 kg) | | Value (\$'00 | 00 f.o.b.) | |
|--------------------------------|----------|-----------|---------|--------------|------------|---------|
| Country of consignment | 1972-73 | 1973–74 | 1974-75 | 1972–73 | 1973–74 | 1974-75 |
| Belgium-Luxembourg | 3 | 116 | 17 | 1 | 77 | |
| Denmark | 187 | 55 | 134 | 97 | 36 | 69 |
| Germany, Federal Republic of . | 317 | 140 | 732 | 197 | 93 | 398 |
| Hong Kong | 24 | 38 | 13 | 18 | 39 | 16 |
| Indonesia | 48 | 51 | 54 | 9 | 50 | 72 |
| Japan | 1,221 | 562 | 587 | 733 | 482 | 395 |
| Kuwait | 61 | 77 | 38 | 43 | 87 | 47 |
| Malaysia | 255 | 307 | 216 | 173 | 295 | 201 |
| Netherlands | 55 | 27 | 35 | 34 | 18 | 19 |
| Saudi Arabia | 67 | 91 | 146 | 46 | 106 | 195 |
| Singapore | 140 | 250 | 192 | 109 | 249 | 204 |
| United Arab Emirates | 14 | 31 | 41 | 15 | 34 | 46 |
| United Kingdom | 5,089 | 2,583 | 5,101 | 2,898 | 1,673 | 2,721 |
| United States of America | 190 | 76 | 1,952 | 88 | 37 | 1,051 |
| Other countries | 294 | 288 | 358 | 261 | 229 | 341 |
| Total | 7,965 | 4,692 | 9,616 | 4,722 | 3,505 | 5,783 |

Imports of honey amounted to 52,511 kg, valued at \$46,014 in 1972-73, 40,421 kg, valued at \$49,564 in 1973-74 and 38,486 kg, valued at \$48,000 in 1974-75.

EXPORTS OF BEESWAX: AUSTRALIA

(Australian produce only)

| | Quantity | (*000 kg) | | Value (\$'000 f.o.b.) | | | |
|--------------------------------|----------|-----------|---------|-----------------------|---------|---------|--|
| Country of consignment | 1972-73 | 1973–74 | 1974-75 | 1972–73 | 1973-74 | 1974-75 | |
| France | | 14 | 7 | | 24 | 13 | |
| Germany, Federal Republic of . | | 29 | 31 | | 33 | 61 | |
| Japan | 11 | 34 | 14 | 15 | 44 | 26 | |
| United Kingdom | 25 | 131 | 144 | 30 | 212 | 262 | |
| United States of America . | | 15 | 24 | | 21 | 48 | |
| Other countries | 5 | 11 | 23 | 11 | 22 | 49 | |
| Total | 41 | 234 | 243 | 56 | 356 | 459 | |

Imports of beeswax amounted to 6,621 kg, valued at \$11,049 in 1972-73; 13,744 kg, valued at \$24,777 in 1973-74 and 10,724 kg, valued at \$28,000 in 1974-75.

Honey levy

A levy is imposed under the *Honey Levy Act* 1962 on domestic sales of honey, for the purpose of financing the operations of the Australian Honey Board. The current rate of levy which became effective on 1 October 1975 is 1.3 cents per kg; it can be increased by regulation to a maximum of 2.2 cents per kilogram.

In April 1974 an export charge of 0.3 cents per kg was introduced under the *Honey Export Charge Act* 1973 to provide necessary additional finance for the Honey Board to regulate Australian honey exports and undertake associated promotional and research activities. This levy may be increased by regulation to a maximum of 1 cent per kg.

Collections of the domestic sales levy have amounted to \$128,000 and \$162,000 in 1973-74 and 1974-75 respectively. Collections of the export levy amounted to \$28,400 in 1974-75. The sum made available for research (\$5,000 per annum in recent years) is matched by the Commonwealth Government with funds from the Special Research Grant.

RURAL IMPROVEMENTS, CONSERVATION AND CONSUMPTION OF FODDER

The soils of Australia

Year Book No. 52 contains an article (pages 873-9) on the soils of Australia which deals with the following matters: nature and development of Australian soils, including the agricultural development of soils, and types of Australian soils. A soil map of Australia and illustrations are included on plates 47 to 51 of Year Book No. 52.

Soil improvement and conservation

Fertilisers

The bulk of Australia's requirements of nitrogenous and phosphatic fertilisers is supplied by the domestic industry. Requirements of potassic fertilisers are primarily imported. Production of nitrogenous fertilisers is based on both Australian natural and refinery gas and imported naphtha feedstocks. Production of phosphatic fertilisers is dependent upon imported phosphate rock but with the development of domestic rock deposits, rock from these sources will be phased out of local manufacture.

As a result of widespread phosphate deficiency in Australian soils, phosphatic fertilisers account for a large proportion of usage both on crops and pastures. During 1973-74 usage of nitrogen, phosphorus and potassium in elemental terms was in the ratio of approximately 2:6:1.

Principal crops and pastures fertilised, etc.

Information regarding the principal crop and pasture areas treated with artificial fertilisers, and the quantity of artificial fertilisers (superphosphate, nitrates, etc.) used is given in the following tables.

RURAL INDUSTRY

PRINCIPAL CROPS AND PASTURES ARTIFICIALLY FERTILISED, AREA FERTILISED TYPE AND QUANTITY(a) USED, 1974-75

| Crops and pastures | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Australia |
|---|-----|-------------|-------------------|-------------------|-------------------|---|----------------------------|-----------------|----------------|---|----------------------------|
| Sown and native pastures— | | | | | | | | | | | |
| Area fertilised | | hectares | 3,358,384 | 3,439,255 | 198,017 | 1,662,167 | 5,293,984 | 506,850 | 14,229 | 11,436 | 14,484,322 |
| Type of fertiliser used- | | | | | | | | | | | |
| Superphosphate . | ٠ | tonnes | 439,649 | 542,297 7,740 | 43,158 | 233,303 | 712,130 | 85,457 | 1,556 | 1,308 | 2,058,858 |
| Nitrogenous Other(b) | • | ** | 8,705 7,032 | 7,740 85,527 | 5,806 4,383 | 752 5,679 | 6,742 29,541 | 1,396 14,210 | 26 4 | | 31,167 146,376 |
| Omer(o) | • | ** | 1,032 | 05,527 | 4,505 | 3,0.5 | ->,0 | , | • | • • • | 110,570 |
| Lucerne— | | | 02.405 | 40 404 | 0.701 | () 476 336 | 10 206 | 2744 | 140 | 100 | 630.004 |
| Area fertilised Type of fertiliser used— | ٠ | hectares | 93,105 | 48,182 | 8,701 | (c)475,336 | 10,286 | 3,744 | 140 | 390 | 639,884 |
| Superphosphate . | | tonnes | 14,891 | 10,671 | 2,396 | (c)80,954 | 1,796 | 823 | 29 | 54 | 111,614 |
| Nitrogenous | | 11 | 20 | 187 | 401 | (c)147 | 54 | 4 | | 4 | 817 |
| Other(b) | • | ,, | 515 | | 183 | (c)1,919 | 526 | 500 | • • | • • | 3,643 |
| Wheat- | | | | | | | | | | | |
| Area fertilised | | hectares | 1,460,800 | 970,081 | 56,316 | 1,120,334 | 2,748,569 | 1,493 | | 204 | 6,357,797 |
| Type of fertiliser used- | | | 06.065 | 114 505 | | | 200 121 | 200 | | 24 | 666,708 |
| Superphosphate . Nitrogenous . | • | tonnes | 96,867 6,051 | 114,595 1,947 | 2,117 2,537 | 144,627 1,901 | 75 722 | 357 | :: | 24 | 88,159 |
| Other(b) | : | " | 6,747 | 1,291 | 159 | 5,264 | 308,121 75,722 3 262 | 10 | | | 16,733 |
| Dota basisanda | | | | • | | | | | | | |
| Dats, barley and rye— Area fertilised . | | hectares | 499 793 | (d)344,680 | 82 037 | (e)648,463 | 701,517 | 23,394 | | 239 | 2,302,023 |
| Type of fertiliser used— | • | nectares | 722,123 | (4/344,000 | 03,731 | (6)040,403 | 101,317 | 43,374 | •• | | • |
| Superphosphate . | | tonnes | 43,071 | (d)43,412 | 5,636 | (e)86,302 | 91,048 | 5,039 | | 28 | 274,536 |
| Nitrogenous | • | ,, | 3,967 | (d)653 | 4,855 | (e)1,286 | 9,690 | 53 | • • | | 20,504 11,226 |
| Other(b) | • | ,, | 3,367 | (d)727 | 903 | (e)4,406 | 1,242 | 573 | • • • | | 11,220 |
| Other cereals— | | | | | | | | | | | |
| Area fertilised | | hectares | 91 921 | 3,260 | 100,163 | 167,274 | 4,290 | 23 | 8,615 | | 375,546 |
| Type of fertiliser used— Superphosphate | | tonnes | 3.898 | 536 | 4,360 | 22,290 | 353 | 6 | 3,105 | | 34,548 |
| Nitrogenous . | : | ionnes " | 11,873 | 50 | 8,645 | 172 | 667 | - | 988 | :: | 22,395 |
| Other(b) | | " | 2,141 | 87 | 1,359 | 841 | 108 | `4 | 5 | • • | 4,545 |
| Sugar cane— | | | | | | | | | | | |
| Area fertilised | | hectares | 11,767 | | 236,602 | | | | | | 248,369 |
| Type of fertiliser used- | • | | • | ••• | • | • | •• | • • • | | | • |
| Superphosphate . | ٠ | tonnes | 639 | | 20,514 | | | | • • | • • | 21,153 |
| Nitrogenous Other(b) | • | " | 5,345 1,147 | | 118,517 83,564 | • • | • • | | • • | • | 123,862 84,711 |
| | • | " | 2,177 | •• | 03,304 | •• | •• | ••• | ••• | •• | ., |
| Vegetables for human c | on- | | | | | | | | | | |
| sumption— Area fertilised | | hectares | 17,094 | 21,094 | 16,001 | 7,583 | 5,597 | 10,054 | 104 | 48 | 77,575 |
| Type of fertiliser used— | ٠ | nectures | 17,054 | 21,074 | 10,001 | 7,565 | 3,391 | 10,054 | 104 | | |
| Superphosphate . | | tonnes | 6,071 | 7,707 | 1,942 | 4,089 | 2,890 | 3,016 | 30 | . 3 | 25,748 |
| Nitrogenous Other(b) | • | ,, | 2,445 9,085 | 1,952 13,337 | 3,845 7,589 | 1,702 4,342 | 5,105 3,804 | 6,526 | 11 47 | 11 47 | 25,748 15,248 44,777 |
| | • | ,, | 9,003 | 13,337 | 7,309 | 4,342 | 3,004 | 0,320 | ٠, | 7, | 44,777 |
| Fruit— | | | | | | | | | | _ | 60 000 |
| Area fertilised | • | hectares | 20,730 | 14,450 | 13,601 | 11,509 | 5,603 | 3,346 | 31 | 7 | 69,277 |
| Superphosphate . | : | tonnes | 4,464 | 3,541 | 1.687 | 4,629 | 2,206 | 631 | 8 | 1 | 17,167 |
| Nitrogenous | | " | 4,065 | 4,202 | 5,988 | 3,021 | 2,617 | 363 | 8 | | 20,264 |
| Other(b) | • | ,, | 12,063 | 3,712 | 9,077 | 2,804 | 1,447 | 2,079 | 3 | ż | 31,187 |
| Grapevines | | | | | | | | | | | |
| Area fertilised | | hectares | 6,833 | 13,174 | 974 | 15,797 | 1,660 | | | | 38,438 |
| Type of fertiliser used- | | | - | - | | | | | | | |
| Superphosphate . Nitrogenous | • | tonnes | 2,160 | | 85 | 5,503 | 466 | | • • | • • | 9,897 2 ,980 |
| Other (b) | • | " | 713 923 | 829 656 | 54 382 | 1,095 2,349 | 289 309 | | | | 4,619 |
| | • | ,, | ,23 | 050 | 302 | 2,547 | 307 | • • | •• | ••• | 4 |
| All other crops— | | | 67.475 | 21.240 | 20.074 | 14040 | 112 656 | 10.010 | • | | 271.012 |
| Area fertilised | • | hectares | 67,475 | 21,349 | 38,971 | 14,949 | 117,656 | 10,611 | 2 | • • | 271,013 |
| Superphosphate . | | tonnes | 4,097 | 4,662 | 3,651 | 2,560 | 27,408 | 2,399 | | | 44,777 |
| Nitrogenous | | ,, | 4,345 | 541 | 2,942 | 64 | 1,369 | 332 | • : | | 9,593 |
| Other(b) | • | ,,, | 2,046 | 2,782 | 4,959 | 191 | 622 | 905 | 1 | • • | 11,506 |
| Total— | | | | | | | | | | | |
| Area fertilised . | | hectares | 5,627,902 | 4,875,525 | 753,283 | 4,123,412 | 8,889,162 | 559,515 | 23,121 | 12,324 | 24,864,244 |
| | | | | | | | | | | | |
| Type of fertiliser used— | | ***** | 615 907 | 720 104 | QE EAC | 594 357 | 1 146 410 | 07 739 | 4 720 | 1 410 | 3 765 004 |
| Type of fertiliser used— Superphosphate Nitrogenous Other(b) | | tonnes | 615,807 47,529 | 729,104 18,101 | 85,546 153,590 | 584,257 10,140 | 1,146,418 102,255 | 97,728 2,326 | 4,728 1,033 | 1,418 15 57 | 3,265,006 334,989 |

⁽a) Includes quantities of "double" and "triple" strength superphosphate converted to single strength equivalent. (b) Includes mixed and compounded fertilisers. (c) Includes Lucerne-based pastures. (d) Excludes rye which is included in "Other Cereals". (e) Excludes oats and rye which are included in "Other Cereals."

PRINCIPAL CROPS AND PASTURES ARTIFICIALLY FERTILISED, AREA FERTILISED TYPE AND QUANTITY USED, AUSTRALIA

| Sown and native pastures | | 3 1973–74 | 1974-75 |
|--|---------------------------------|--------------|------------------|
| CHectares Sown and native pastures | | | |
| Company Comp | | | |
| Lucerne | 04.003 | | |
| Lucerne | 96,223 15,256,25 [,] | 4 17,994,410 | 14,484,322 |
| Onto harlay and ma | 82,475 496,95 | | 639,884 |
| Oats harley and eye | 19,253 6,071,14 | 2 7,146,716 | 6,357,797 |
| | 18,567 3,335,886 | | 2,302,02 |
| Other cereals | 90,291 199,54 | | 375,546 |
| | 34,301 239,673 | | 248,369 |
| Fruit | 87,609 | | 77,575 69,277 |
| | 82,493 | | 38,438 |
| | 01,525 283,397 | | 271,013 |
| | 48,703 26,075,731 | | 24,864,244 |
| | | | |
| SUPERPHOSPHAT | E USED | | |
| (Tonnes) | . | | |
| | 95,616 2,233,07 | | 2,058,858 |
| Luceine | 77,079 79,88 | | 111,614 |
| | 23,297 688,052 | | 666,708 |
| | 43,241 394,748 | | 274,536 |
| Other cereais | 12,752 16,591 | | 34,548 |
| | 18,544 19,830 | | 21,153 25,748 |
| Fruit | 26,681 25,090 | | 17,167 |
| Grapevines | 17,781 18,012 8,950 9,061 | | 9,897 |
| | 36,301 37,439 | | 44,777 |
| | 50,244 3,521,784 | | 3,265,006 |
| | | | |
| NITROGENOUS FERT (Tonnes) | ILISERS USED | | |
| | | | |
| | 14,251 45,019 | | 31,167 |
| Lucerne | 1,288 1,170 | | 817 |
| | 32,382 | | 88,159 20,504 |
| | 9,018 16,943 | | 22,395 |
| | 19,126 19,561 96,197 108,852 | | 123,862 |
| | 3,624 11,879 | * | 15,248 |
| Fault | 9,184 19,781 | | 20,264 |
| Grapevines | 3,627 3,742 | | 2,980 |
| | 2,493 10,573 | | 9,593 |
| Total 221,622 25 | 88,829 269,902 | 366,946 | 334,989 |
| OTHER ARTIFICIAL FERTI | LISERS LISED(a) | | |
| (Tonnes) | LIBERG CBED(a) | | |
| Sown and native pastures | 51,039 176,467 | 168,258 | 146,375 |
| | 4,418 4,215 | | 3,643 |
| | 8,085 19,590 | | 16,733 |
| Oate barlay and rue | 4,394 12,447 | | 11,226 |
| | 4,186 4,450 | | 4,545 |
| | 9,985 75,127 | | 84,711 |
| Vegetables for human consumption . 56,131 5 | 1,979 47,017 | 35,842 | 44,777 |
| | 4,985 35,488 | | 31,187 |
| Grapevines | 4,515 5,074 | * | 4,619 |
| All other crops | 3,773 12,541 | 10,020 | 11,506 |
| Total 398,093 36 | 7,359 392,415 | 360,185 | 359,323 |

Imports and exports of fertilisers

The chief sources of Australia's supplies of natural phosphate are Nauru, Christmas Island (Indian Ocean), Gilbert and Ellice Islands and Morocco. Sodium nitrate is obtained chiefly from Chile and the U.S.A.

IMPORTS OF FERTILISERS: AUSTRALIA

| | 1970-71 | | 1971-72 | | 1972-73 | | 1973-74 | | 1974-75 | |
|---|--------------------|---------------|---|--------------|------------------|----------------|-----------|--------|-----------|--------|
| Description | '000 kg | \$'000 | '000 kg | \$'000 | '000 kg | \$'000 | '000 kg | \$'000 | '000 kg | \$'000 |
| Fertilisers, crude- | | | | | | | | | | |
| Natural sodium nitrate. Natural phosphates, whether or | 3,242 | 185 | 3,159 | 212 | 3,572 | 225 | 3,921 | 286 | 3,135 | 494 |
| not ground . Natural potassic salts, crude Fertilisers, manufactured— Mineral or chemical fertilisers, nitrogenous— | 2,107,482 5,203 | 22,174 152 | 1,654,352 | 18,157 | 2,281,922 | 22,647 | 3,109,470 | 35,236 | 2,647,410 | 74,059 |
| Ammonium nitrate | 14,648 | 954 | 2,695 | 164 | 9,185 | 458 | 3,987 | 255 | 6,480 | 967 |
| Ammonium sulphate | 453 | 20 | 375 | 13 | 144 | 7 | 111 | 11 | 43 | 8 |
| Calcium ammonium nitrate. | 1,042 | 40 | 1,097 | 41 | 1,032 | 48 | 1,044 | 64 | 538 | 120 |
| Sodium nitrate. Urea containing in the dry state more than 45% by | 2,101 | 110 | 1,035 | 66 | 805 | 116 | 198 | 17 | 35 | 3 |
| weight of nitrogen | 12.669 | 626 | 6.984 | 435 | 1,302 | 76 | 122 | 21 | 4,347 | 1.245 |
| Other Mineral or chemical fertilisers, phosphatic— | 948 | 58 | 564 | 32 | 757 | 47 | 1,073 | 87 | 844 | 111 |
| Basic slag Other (including super- | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • |
| phosphates). Mineral or chemical fertilisers. | 3,141 | 132 | 2,433 | 218 | 2,044 | 123 | 1,816 | 151 | 332 | 49 |
| potassic— Potassium chloride Potassium sulphate | 136,138 17,131 | 4,045 748 | 130,431 15,482 | 3,350 768 | 156,184 9,101 | 4,254 438 } | 182,881 | 5,221 | 211,108 | 9,523 |
| Other Fertilisers, n.e.s. In the form of tablets, lozenges and similar prepared forms or in packs of gross weight not exceeding | 2,468 | 66 | 891 | 54 | 128 | 8) | | | | |
| 10 kg | 39 | 54 | 49 | 53 | 29 | 30 | 214 | 109 | 170 | 137 |
| combined with potassium | 234 | 15 | 118 | 9 | 100 | • | 31 | 7 | 18 | 3 |
| nitrate | 7,439 | 443 | 14.850 | 985 | 5,491 | 9 439 | 4,258 | 430 | 3.801 | 64 |
| Mixed or composite fertiliser | 375 | 22 | 14,630 | 10 | 3,491 74 | 439 17 | 4,238 | 450 | 3,001 | 28 |
| Blood and bone. | 313 | | • | | /~ | | 177 | 7.5 | | |
| Other | 952 | 117 | 320 | 68 | 577 | 104 | 500 | 122 | 699 | 264 |

Exports of fertilisers (manufactured locally) amounted to 28,562 tonnes valued at \$2,789,000 in 1974-75 compared with 39,407 tonnes valued at \$1,929,000 in 1973-74.

Pasture improvement

An article on pasture improvement, which includes notes on indigenous and introduced species of grasses and traces the development of pasture research in Australia, appears on pages 1001-2 of Year Book No. 49.

Soil conservation

Year Book No. 49 contains an article (pages 1003-4) on soil conservation which deals with the following matters: land use and soil erosion, agents of erosion, prevention and control, and the activities of various Federal and State authorities which promote and co-ordinate research into the problems of soil erosion and the initiation of preventive measures.

Aerial Agriculture

Extensive use is made of aircraft for top-dressing and seeding, for spraying and dusting of crops and pastures, and for pest and vermin extermination.

For 1956-57 (the first year for which data are available) the total area treated was 593,000 hectares; in 1974-75 the total was 5,080,000 hectares. The following table shows details of area treated and materials used for each State for years ended 31 March.

| Δ | FRI | AT. | ACD | CIII | TURE |
|---|-----|-----|-----|------|------|
| | | | | | |

| Year ended 31 March | | | Area topdressed | | Total | Materials us | ed | Total |
|---------------------|---|---|--------------------|------------------|--------------------|---------------------|--------|----------------|
| | | | and seeded | Area sprayed | area treated(a) | Super- phosphate | Seed | flying time |
| 1975 | _ | - | '000 hectares | '000 hectares | '000 hectares | tonnes | tonnes | hours |
| | | | | | | | | |
| New South Wales(b) | • | • | 2,172 | 512 | 2,754 | 261,658 | 4,595 | 41,167 |
| Victoria(c) | | | 649 | 132 | 814 | 112,824 | 5 | 18,327 |
| Queensland | | | 154 | 314 | 522 | 8,489 | 146 | 12,505 |
| South Australia(d) | | | 119 | 145 | 264 | 16,051 | 38 | 4,675 |
| Western Australia | • | | 284 | 441 | 726 | 74,827 | 21 | 12,525 |
| Australia . | | | 3,378 | 1,544 | 5,080 | 473,849 | 4,805 | 89,199 |
| 1971 | | | 3,304 | 1,124 | 4,581 | 417,366 | 1,111 | 83,692 |
| 1972 | | | 2,795 | 1,357 | 4,291 | 335,374 | 1,991 | 75,620 |
| 1973 | | - | 3,359 | 1,355 | 4,788 | 446,190 | 1,646 | 89,432 |
| 1974 | | - | 4,870 | 1,870 | 6,776 | 546,009 | 2,510 | 93,288 |

⁽a) Includes other types of treatment (rabbit baiting, etc.). (b) Includes the Australian Capital Territory. (c) Includes Tasmania. (d) includes the Northern Territory.

Irrigation on rural holdings

Details of the principal crops and the area under irrigation are given in Chapter 23, Water Resources.

Farm stocks of major cereal grains, silage and hay FARM STOCKS OF CEREAL GRAINS

(Tonnes)

| | At 31 Ma | rch— | | | |
|------------------------------------|--------------------|----------------------|-----------------|-------------------|-------------|
| State | 1971 | 1972 | 1973 | 1974 | 1975 |
| | BAI | RLEY | | | |
| New South Wales | . (a) | 150,938 | 98,970 | 147,008 | 90,928 |
| Victoria | . 62,994 | 91,669 | 86,999 | 91,788 | 62,534 |
| Queensland | . 21,060 | 48,922 | 27,041 | 49,700 | 36,667 |
| South Australia | . 133,017 | 189,501 | 156,444 | 147,737 | 135,244 |
| Western Australia | . 102,056 | 144,528 | 189,226 | 163,617 | 108,247 |
| Tasmania | . 10,004 | 10,447 | 10,758 | 9,315 | 8,590 |
| Northern Territory | . (b) | (a) | (a) | (a) | (a) |
| Australian Capital Territory . | . (b) | (a) | (a) | (a) | (a) |
| Australia | . 2.0 | (c)636,005 | (c)569,438 | (c)609,165 | (c)442,210 |
| | O, | ATS | | | |
| New South Wales | . 611,889 | 415,855 | 260,918 | 360,598 | 392,123 |
| Victoria | . 289,358 | 263,315 | 259,058 | 289,328 | 148,733 |
| Queensland | . 13,516 | 14,653 | 9,592 | 11,020 | 21,646 |
| South Australia | . 115,533 | 138,857 | 85,836 | 114,255 | 97,672 |
| Western Australia | 209,830 | 285,427 | 169,075 | 260,560 | 194,794 |
| Tasmania | . 8,176 | 7,138 | 12,778 | 6,931 | 6,213 |
| Northern Territory | . (b) | (a) | (a) | (a) | (a) |
| Australian Capital Territory . | . 565 | 411 | 262 | 586 | 285 |
| Australia | . (c)1,248,867 | | | (c)1,043,278 | (c)861,466 |
| | WH | IEAT | | | |
| New South Wales | . 301,285 | 296,328 | 325,987 | 326,891 | 257,884 |
| Victoria | . 137,537 | 169,455 | 157,904 | 148,748 | 122,664 |
| Queensland | . 20,535 | 26,641 | 27,773 | 27,452 | 28,831 |
| South Australia | . 105,288 | 105,489 | 122,119 | 120,799 | 109,373 |
| Western Australia | . 279,158 | 214,055 | 199,481 | 221,541 | 209,086 |
| Tasmania | 2,563 | 2,534 | 4,413 | 3,214 | 2,344 |
| Northern Territory | . (b) | (a) | (a) | (a) | (a) |
| Australian Capital Territory . | . 649 | 348 | 540 | 485 | 483 |
| Australia | . (c)847,015 | (c)814,850 | (c)838,217 | (c)849,130 | (c)730,665 |
| (a) Not available for publication. | (b) Not collected. | (c) Incompl | ete; see footno | tes to individual | states. |
| | FARM STOCI | KS OF SILAO nnes) | GE | | |
| | At 31 Ma | rch— | | | |
| State | 1971 | 1972 | 1973 | 1974 | 1975 |
| New South Wales | . 860,565 | 745,997 | 590,043 | 769,127 | 775,097 |
| Victoria | . 226,126 | 237,561 | 157,607 | 284,343 | 164,265 |
| Queensland | . 129,622 | 187,159 | 173,979 | 168,017 | 142,146 |
| South Australia | . 58,129 | 77,299 | 44,708 | 49,245 | 51,260 |
| Western Australia | . 37,537 | 57,328 | 28,330 | 59,607 | 42,438 |
| Tasmania | . 69,317 | 73,342 | 44,477 | 66,190 | 67,654 |
| Northern Territory | . (a) | 589 | 469 | 842 | 275 |
| Australian Capital Territory . | . 50 | 737 | 203 | 1,350 | 6,630 |
| Australia | . (b)1,381,346 | 1,380,012 | 1,039,816 | 1,398,721 | 1,249,765 |

FARM STOCKS OF HAY

(Tonnes)

| | | At 31 Marc | ch— | | | |
|------------------------------|---|--------------|-----------|-----------|-----------|-----------|
| State | | 1971 | 1972 | 1973 | 1974 | 1975 |
| New South Wales | | 2,561,303 | 1,782,023 | 1,192,843 | 1,662,779 | 1,556,490 |
| Victoria | | 2,695,585 | 3,861,139 | 2,547,423 | 3,290,408 | 2,958,869 |
| Oueensland | | 287,762 | 338,670 | 294,848 | 280,609 | 263,869 |
| South Australia | • | 624,278 | 961,820 | 555,213 | 879,545 | 891,575 |
| Western Australia | | 407,022 | 479,465 | 398,025 | 561,383 | 442,702 |
| Tasmania | | 471,596 | 516,321 | 317,193 | 471,290 | 461,997 |
| Northern Territory | | (a) | 945 | 521 | 2,488 | 909 |
| Australian Capital Territory | | 9,805 | 14,350 | 2,885 | 8,727 | 5,280 |
| Australia | | (b)7,057,351 | 7,954,733 | 5,308,951 | 7,157,229 | 6,581,691 |

(a) Not collected.

On-farm consumption of major cereal grains and hay CEREAL GRAINS CONSUMED BY LIVESTOCK ON FARMS

(Tonnes)

| State | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|--------------------------------|---|--------------------|------------|--------------------|------------|------------|
| | | BAR | LEY | | | |
| New South Wales | | 46,186 | 83,275 | 92,180 | 72,447 | 56,956 |
| Victoria | | 40,837 | 57,230 | 84,196 | 68,999 | 43,069 |
| Queensland | | 62,302 | 68,183 | 73,527 | 74,474 | 64,497 |
| South Australia | | 78,002 | 126,956 | 148,578 | 125,311 | 109,227 |
| Western Australia | | 62,484 | 66,473 | 126,656 | 126,272 | 71,251 |
| Tasmania | | 9,678 | 12,267 | 13,594 | 6,457 | 6,237 |
| Northern Territory | | (a) | (a) | (b) | (b) | (b) |
| Australian Capital Territory . | | (a) | (a) | 62 | 64 | (b) |
| Australia | • | (c)299,489 | (c)414,384 | (c)538,793 | (c)474,024 | 351,297 |
| | | OA | .TS | | | • |
| New South Wales | | 131,025 | 192,623 | 253,697 | 107.834 | 84,924 |
| Victoria | | 112,797 | 131,081 | 253,968 | 279,966 | 79,924 |
| Queensland | | 9,587 | 6,730 | 9,591 | 8,732 | 8,484 |
| South Australia | | 75,508 | 63,039 | 80,871 | 52,995 | 44,911 |
| Western Australia | | 144,469 | 139,516 | 186,820 | 137,426 | 108,145 |
| Tasmania | | 4,117 | 3,762 | 5.654 | 3,334 | 2,764 |
| Northern Territory | | (a) | 7 | (b) | 32 | (b) |
| Australian Capital Territory . | | 152 | 504 | 232 | 319 | 292 |
| Australia | | (c)477,65 5 | 537,262 | (c) 790,833 | 590,638 | (c)329,444 |
| | | WH | EAT | | | |
| New South Wales | | 194,532 | 319.713 | 230,930 | 237,270 | 196.017 |
| Victoria | - | 64,661 | 70,969 | 209,135 | 61,485 | 50,385 |
| Oueensland | - | 32,282 | 52,940 | 32,155 | 39,268 | 46,546 |
| South Australia | | 39,409 | 55,345 | 73,915 | 43,011 | 40,222 |
| Western Australia | | 73,642 | 78,803 | 72,980 | 58,496 | 35,660 |
| Tasmania | | 10,466 | 11,919 | 13,987 | 16,694 | 14,276 |
| Northern Territory | | (a) | 108 | (b) | (b) | (b) |
| Australian Capital Territory . | | 672 | 155 | 384 | 1,336 | 5,160 |
| Australia | • | (c)415,664 | 589,952 | (c)633,486 | (c)457,560 | (c)388,266 |

⁽a) Not collected separately.

⁽b) Incomplete; excludes the Northern Territory.

⁽b) Not available for publication.

⁽c) Incomplete; see footnotes to individual States.

RURAL INDUSTRY

HAY CONSUMED BY LIVESTOCK ON FARMS

(Tonnes)

| State | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-----------------------|----------|---|---|---------------------|-----------|-----------|------------|-----------|
| | | | | CEREA | L HAY | | | |
| New South Wales . | | | | 176,193 | 251,585 | 242,414 | 115,958 | 83,026 |
| Victoria | · | | | 284,661 | 378,997 | 396,186 | 244,116 | 174,362 |
| Queensland | | | | 18,972 | 26,597 | 25,830 | 18,141 | 21,403 |
| South Australia . | | | | 217,929 | 222,076 | 234,755 | 155,892 | 129,469 |
| Western Australia . | | | | 251,627 | 229,665 | 241,573 | 213,602 | 169,374 |
| Tasmania | | | | 21,422 | 19,662 | 25,427 | 13,710 | 23,292 |
| Northern Territory | • | | | (a) | 365 | 542 | (a) | (a) |
| Australian Capital Te | erritory | | • | 293 | 1,027 | 356 | 332 | 231 |
| Australia . | • | • | | (b) 971 ,097 | 1,129,974 | 1,167,083 | (b)761,751 | 601,157 |
| | | | | LUCERN | NE HAY | | | |
| New South Wales . | | | | 408,512 | 561,260 | 558,448 | 316,230 | 264,843 |
| Victoria | • | • | • | 128,074 | 172,118 | 173,836 | 111,554 | 95,459 |
| Oueensland . | • | • | • | 164,919 | 172,208 | 184,626 | 136,059 | 130,781 |
| South Australia . | • | • | • | 95,769 | 95,413 | 99,019 | 77,428 | 65,853 |
| Western Australia . | • | • | • | (a) | 5,461 | 8,070 | 6,473 | 6,041 |
| Tasmania | • | • | • | (a) | 12,444 | 14,572 | 9,595 | 11,720 |
| Northern Territory | • | • | • | 1,212 | 4,015 | 562 | 5,376 | 1,928 |
| Australian Capital Te | erritory | • | • | 3,130 | 3,433 | 3,256 | 1,296 | 1,124 |
| Australia . | | | | (b)801,616 | 1,026,352 | 1,042,389 | 664,011 | 577,749 |
| | | | | отнек | R HAY | | | |
| New South Wales . | | | | 306,764 | 445,767 | 307,709 | 225,194 | 246,596 |
| Victoria | | | | 1,477,258 | 1,916,440 | 1,800,674 | 1,507,121 | 1,522,629 |
| Queensland | | | | 146,631 | 59,733 | 58,261 | 48,995 | 46,277 |
| South Australia . | | | | 263,388 | 293,527 | 307,146 | 258,611 | 276,239 |
| Western Australia . | | | | 220,878 | 216,087 | 234,874 | 227,873 | 243,456 |
| Tasmania | | - | : | 246,320 | 326,094 | 317,999 | 263,356 | 290,833 |
| Northern Territory | | | : | 3,596 | 2,225 | 2,323 | 7,788 | 1,494 |
| Australian Capital Te | rritory | | · | 843 | 1,373 | 497 | 388 | 882 |
| Australia . | | | | 2,665,678 | 3,261,246 | 3,029,483 | 2,539,326 | 2,628,406 |

⁽a) Included in 'other hay'. (b) Incomplete; see footnotes to individual States.

Agricultural machinery on rural holdings

The tables following show the principal types of agricultural machinery on rural holdings in the States and Territories at 31 March 1975. Additional information was published in the statistical bulletin Rural Land Use, Improvements, Agricultural Machinery and Labour, 1974-75 (10.59).

Farm machinery on rural holdings

AGRICULTURAL MACHINERY ON RURAL HOLDINGS: 31 MARCH 1975 (Number)

| Machinery | N.S.W. | Vic. | Qld —— | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--------------------------------------|-----------|--------|-----------|--------|---------|--------|------|--------|------------|
| Fractors— | | | | | | | | | |
| Wheeled | 82,232 | 78,322 | 66,223 | 35,524 | 32,681 | 11,560 | 451 | 131 | 307,124 |
| Crawler | 6,326 | 3,005 | 8,570 | 2,831 | 3,439 | 1,101 | 159 | 5 | 25,436 |
| ertiliser distributors and broad- | | - | - | • | • | • | | | , |
| casters(a) | 23,887 | 26,681 | 18,036 | 10,021 | 10,099 | 5,518 | 105 | 56 | 94,403 |
| Grain and seed harvesters (including | | | • | • | • | | | | ., |
| headers and strippers)— | * | | | | | | | | |
| Tractor drawn | 12,637 | 9,761 | 3,635 | 8,350 | 7,520 | 510 | 26 | 10 | 42,449 |
| Self-propelled | 5,966 | 2,003 | 3,773 | 2,649 | 2,494 | 135 | 14 | (b) | (c)17,034 |
| Grain drills— | -,,,,,,,, | _, | -, | -, | _, ., . | | • • | (0) | (,,,,,,,,, |
| Combine type | 28,251 | 19.076 | 14,625 | 15,218 | 13,912 | 1.499 | 82 | 44 | 92,707 |
| Other type | 5,104 | 6,332 | 1,791 | 4,010 | 2.813 | 1,776 | 13 | iš | 21.854 |
| Pick-up balers | 12,407 | 15,110 | 3,780 | 5,878 | 4,738 | 2,155 | 60 | 36 | 44,164 |
| Forage harvesters | 3,227 | 2,228 | 1,599 | 872 | 674 | 348 | 28 | 4 | 8,980 |
| Rotary hoes and rotary tillers— | 3,441 | 2,220 | 1,000 | 0.2 | 0,4 | 540 | 20 | • | 0,500 |
| Self-contained power unit . | 7,444 | 6.285 | 3,266 | 3,292 | 1,589 | 1,144 | 55 | 16 | 23,091 |
| Tractor mounted and trailing types | 9,571 | 6,066 | 8,088 | 3,154 | 2,236 | 1.159 | . 55 | 16 | 30,34 |
| Shearing plant (number of stands) | 59,858 | 34.144 | 15,052 | 24,580 | 25,244 | 3,916 | | 145 | 162,939 |

⁽a) Rotary and direct drop.

AGRICULTURAL MACHINERY ON RURAL HOLDINGS: AUSTRALIA (Number)

| | 31 March | | | | |
|--------------------------------------|----------|---------|---------|---------|---------|
| Machinery | 1971 | 1972 | 1973 | 1974 | 1975 |
| Tractors- | | | | | |
| Wheeled | 300,844 | 305,628 | 307,271 | 308,714 | 307,124 |
| Crawler | 25,904 | 25,698 | 25,775 | 25,734 | 25,436 |
| Fertiliser distributors and broad- | | | • | , | , |
| casters(a) | 98,117 | 96,832 | 96.140 | 96,388 | 94,403 |
| Grain and seed harvesters (including | , | , | , | , | , |
| headers and strippers)— | | | | | |
| Tractor drawn | 49,904 | 48,477 | 46,107 | 44,440 | 42,449 |
| Self-propelled | 13,871 | 15,040 | 15,109 | 16,276 | 17,034 |
| Grain drills- | | | , | | |
| Combine type | 93,567 | 95,779 | 95,743 | 94.881 | 92,707 |
| Other type | 26,078 | 24,959 | 24,066 | 23,161 | 21,854 |
| Pick-up balers | 42,187 | 42,942 | 43,399 | 44,565 | 44,164 |
| Forage harvesters | 8,479 | 8,960 | 9.044 | 9,237 | 8,980 |
| Rotary hoes and rotary tillers- | -, | | | | · |
| Self-contained power unit | 23,059 | 24,884 | 25,553 | 25,073 | 23,091 |
| Tractor mounted and trailing types | 23,264 | 26,733 | 26,750 | 29,876 | 30,345 |
| Milking plant (number of units) . | n.a. | 209,805 | 211,888 | n.a. | n.a. |
| Shearing plant (number of stands) . | n.a. | 188,482 | n.a. | n.a. | 162,939 |

⁽a) Rotary and direct drop.

Sales of new tractors for agricultural purposes.

Details of the sales of new tractors for agricultural purposes are given in the quarterly publication Receipts, Sales and Stocks of New Tractors (12.18).

⁽b) Not available for publication.

⁽c) Excludes A.C.T.

RURAL EMPLOYMENT

Employment on rural holdings

The following tables contain details of persons working on rural holdings at the end of March as recorded in the annual Agricultural Census.

Males working permanently full-time include all other than casual or seasonal workers, boys and youths attending schools and other persons working only part-time. Casual or seasonal workers, including contractors for shearing, etc., but not those engaged on construction and development work, are shown as temporary employees.

Attention should be drawn to the difficulty encountered in obtaining data on persons working on holdings on a comparable basis from year to year. This is mainly due to the changing number of lessees and sharefarmers, and the tendency of many farmers to include part-time family helpers as full-time workers in their returns.

Additional particulars relating to the number of males employed in agriculture up to 1941–42 are shown in Year Book No. 36, page 852, and previous issues. Similar details for later years are not available.

MALES WORKING ON RURAL HOLDINGS: 31 MARCH 1975

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|--------|--------|--------|--------|--------|--------|-------|--------|---------|
| Permanent— Owners, lessees or share- farmers Relatives of owner, lessee or sharefarmer— Over 15 years of age, | 50,492 | 51,336 | 33,239 | 21,067 | 19,143 | 5,975 | 215 | 93 | 181,560 |
| not receiving wages or salary Employees, incl. managers | 301 | 3,256 | 2,276 | 86 | 1,058 | •• | 20 | 5 | 7,002 |
| and relatives working for wages or salary | 17,784 | 10,236 | 12,156 | 5.479 | 5,885 | 2,310 | 1,124 | 62 | 55,036 |
| Total permanent males | 68,577 | 64,828 | 47,671 | 26,632 | 26,086 | 8,285 | 1,359 | 160 | 243,598 |
| Temporary | 18,429 | 20,628 | 11,941 | 6,919 | (a) | 3,674 | 372 | 98 | (a) |
| Total males | 87,006 | 85,456 | 59,612 | 33,551 | (a) | 11,959 | 1,731 | 258 | (a) |

⁽a) Not available for publication.

MALES WORKING ON RURAL HOLDINGS: AUSTRALIA

| | 31 March— | | | | |
|--|-----------|---------|---------|---------|---------|
| | 1971 | 1972 | 1973 | 1974 | 1975 |
| Permanent— | | | | | |
| Owners, lessees or sharefarmers . Relatives of owner, lessee or sharefarmer over 15 years of age, not | 191,180 | 194,905 | 189,260 | 185,886 | 181,560 |
| receiving wages or salary Employees, incl. managers and relatives working for wages or | (a)8,062 | 8,797 | 7,782 | 7,316 | 7,002 |
| salary | 69,667 | 65,333 | 62,580 | 62,150 | 55,036 |
| Total permanent males | 268,909 | 269,035 | 259,622 | 255,352 | 243,598 |
| Temporary | (b) | (b) | (b) | (b) | (b) |
| Total males | (b) | (b) | (b) | (b) | (b) |

⁽a) Over 14 years of age. (b) Not available for publication.

Employment in the agricultural sector

In addition to the statistics of employment on rural holdings compiled from agricultural census data, agricultural industry employment statistics are also available from the quarterly labour force surveys conducted by the Bureau, and from the Australian population censuses which have been conducted on six occasions since 1947. Population census information is published in Rural Land Use, Improvements, Agricultural Machinery and Labour, 1974-75, (10.59).

In the labour force surveys, the agricultural labour force estimates form part of the civilian labour force estimates, which are based on the results of the quarterly population survey conducted by the Bureau throughout Australia in February, May, August and November each year. The survey is a multi-stage area sample of private and non-private dwellings and covers about two-thirds of one per cent of the population of Australia. The information is obtained by means of personal interviews undertaken by specially trained interviewers. Interviews are carried out during a period of four weeks, so that there are four survey weeks in each of the months to which the survey relates. These four survey weeks are chosen so as to fall within the limits of the calendar month or with minimum encroachment into the adjacent month.

A table showing an estimate of employment in agriculture from the labour force survey is shown on page 692-3. The table is based on the Australian Standard Industrial Classification (ASIC).

Under the ASIC classification, the term agriculture is used in the broad sense to include the breeding, keeping or cultivation of animal or vegetable life, the sun-drying of fruit and the agricultural service industries, such as those operating on a contract, consultant, etc., basis. However, the following activities which could be construed as falling within the ambit of agriculture, as specified in the previous sentence, are specifically excluded:

Forestry, pisciculture and the cultivation and production of aquatic vegetation, flora and fauna sanctuaries, botanical and zoological gardens, and institutional farms with research or penal functions.

Further information relating to the labour force surveys can be obtained from the quarterly Bureau publication *The Labour Force* (6.20).

ASSISTANCE TO, AND REGULATION OF, AGRICULTURE

This section is intended to provide a summary of the means by which the Australian agricultural industries are assisted and regulated. It is not intended to provide a comprehensive statement of all the consultative and legislative assistance and control measures that exist, but rather to describe the way in which these processes affect the crops, livestock and livestock products referred to earlier in this chapter.

General

The Australian Agricultural Council

The influence of government and semi-government authorities on Australian rural industry is most apparent in the fields of guaranteed prices, subsidies and controlled marketing. Many of these aspects of intervention at the national level take place indirectly through the Australian Agricultural Council. This is a permanent organisation which was formed following a conference of Federal and State Ministers on agricultural and marketing matters held at Canberra in December 1934. The Council consists of the Commonwealth Government Ministers for Primary Industry and the Northern Territory and the State Ministers of Agriculture/Primary Industries, with power to co-opt the services of other Commonwealth Government and State Ministers as required. The principal functions of the Council are: the promotion of the welfare and development of agricultural industries generally; the exchange of information on agricultural production and marketing; the improvement of the quality of agricultural products and the maintenance of high grade standards; to ensure, as far as possible, balance between production and available markets; and organised marketing.

A permanent Standing Committee on Agriculture was also formed to advise the Council on all the above matters and, in addition, to bring about co-operation and co-ordination in agricultural research, to advise Governments on the initiation and development of agricultural research programs, and to secure co-operation between all Governments in respect of quarantine measures against pests and diseases of plants and animals.

The Standing Committee on Agriculture comprises the permanent heads of the Commonwealth Department of Primary Industry and State Departments of Agriculture/Primary Industries and a representative each from the Commonwealth Departments of the Treasury, Health, Overseas Trade, the Northern Territory, and from the Commonwealth Scientific and Industrial Research Organization.

The Rural Reconstruction Scheme

The Rural Reconstruction Scheme commenced in 1971 when the Commonwealth Government agreed to make finance available to the States to help restore to economic viability those farms and farmers with the capacity to maintain viability once achieved.

Originally \$100 million was to be made available to the States over a period of 4 years ending 30 June 1975. In addition the States were authorised to use \$9.5 million from the pre-war Farm Debt Adjustments Scheme for rural reconstruction purposes. However, following a review of the Scheme in 1972 the Commonwealth Government undertook to provide the whole \$100 million by 30 June 1973 and to provide an additional \$18 million in 1973-74 to fund approvals given in the later months of 1972-73.

At the 1973 Review it was agreed to extend the Scheme for 3 years to 30 June 1976 with the Commonwealth Government authorising each State to approve a maximum amount of assistance in each year. A total of \$36 million was allocated for 1973-74, \$28 million for 1974-75 and \$30 million for 1975-76. A Review in 1976 extended the Scheme to December 1976.

The Commonwealth Government provides the funds to the States on the basis of 75 per cent loan (repayable over 20 years) and 25 per cent grant. The States lend money to eligible farmers who repay their loans, with interest, over a period of years to the State. Each State Government has appointed an Authority responsible to a Minister, to undertake the detailed administration of the Scheme within its State.

Three forms of assistance are available.

Debt reconstruction to assist the farmer who, although having sound prospects of long term commercial viability, has used all his cash and credit resources and cannot meet his financial commitments

Farm build-up to assist the normal processes under which properties which are too small to be economic are amalgamated with an adjoining holding or are subdivided and the subdivided portions are added to adjoining holdings, or to assist a farmer with a property too small to be economic to purchase additional land to build up his property to at least economic size.

Rehabilitation to provide limited assistance to those obliged to leave the industry where, in the opinion of the Authority administering the Scheme, this is necessary to alleviate conditions of personal hardship. The maximum rehabilitation loan at present is \$3,000.

To 30 June 1975 over \$189 million had been approved under the Scheme to provide assistance to 4,306 farmers for debt reconstruction, 2,576 for farm build-up and 182 farmers in need of rehabilitation assistance.

Agricultural research

Each State Department of Agriculture has a number of research stations investigating problems mainly of the regions in which they are located. In addition, a substantial amount of research and investigational work is carried out by these departments on farmers' properties. The work is supported by central laboratory and service facilities in capital cities and also by research analytical and diagnostic laboratories in the country areas. Research results are passed on to farmers through field days, meetings and publications, and through extension staff of the State Departments of Agriculture. In recent years, there has been increasing interest in economic interpretation of research results.

The Commonwealth Scientific and Industrial Research Organization carries out research at field stations and laboratory facilities in many parts of Australia, and also undertakes developmental studies at national level. Its research programs in the agricultural and livestock fields are generally designed to give information which is widely applicable in the Australian environment and which may require further regional interpretation and adaptation in order that it may be of use to the farming industries. Universities also carry out agricultural research at laboratory and field levels, in addition to their teaching functions.

For details of agricultural training see Chapter 19, Education.

Research schemes

The research activities of State departments, the C.S.I.R.O., universities and other institutions, are supplemented by funds provided under a series of joint Commonwealth Government-industry research schemes. Statutory arrangements of this nature exist for tobacco, wool, wheat, dairying, meat, poultry (eggs), chicken meat, pigs, dried fruits and fish. Contributions to these research schemes are raised from the industry by way of a levy on the produce concerned, matched by Commonwealth Government funds (see Chapter 18, Public Finance pages 597-8).

ASSISTANCE TO, AND REGULATION OF, AGRICULTURE CROPS AND CROP PRODUCTS

For research work in industries where legislation-backed arrangements do not exist, voluntary contributions from the rural industry are matched by the Commonwealth Government from a special research grant to finance a range of research projects, e.g. fruit fly disinfestation, locust control, honey, potato research and mohair production.

Extension services and market outlook information

Agricultural extension services are provided by the States through their Departments of Agriculture and in certain special fields by other State departments and authorities. Commonwealth extension services operate in the Northern Territory and the Australian Capital Territory.

All State Departments of Agriculture have university or agricultural college trained officers located in country areas. They carry out advisory and educational activities in the farming community, through contact with individual farmers, and through group and general publicity channels. In recent years States have strengthened the economic and farm management content of extension work.

Support for the field extension staff is provided by information service groups, by applied research teams and industry and subject matter specialist groups including economists, and by diagnostic and analytical services. Some States have advisory staff specialising in agricultural mechanisation. In recent years emphasis has been placed on the regional development of extension services.

Information services operated by Departments of Agriculture include agricultural journals, periodicals in various industry fields, pamphlets, newsletters, films, radio talks and television presentations. Group activities include discussion groups, field days, demonstrations, evening meetings and displays.

Since 1948 the Commonwealth Government has provided unmatched grants to the States to assist them in expanding their extension activities. In 1966, a program of rapid expansion of this assistance beyond the existing provision of \$1.4 million per annum was undertaken with \$21 million being made available during the subsequent five years through the Extension Services Grant. Provision for the five year period which began in 1971 amounted to \$37 million. The Grant was renewed for the 1975-76 financial year amounting to \$9.9 million. The Grant is disbursed mainly to State Departments of Agriculture, and its scope includes extension, regional research, information, economic services, agricultural education and training.

Since 1971 the Bureau of Agricultural Economics has organised a series of annual National Agricultural Outlook Conferences to which representatives from industry bodies, marketing authorities, State and Commonwealth Government departments, universities and other agricultural institutions are invited to analyse and discuss in depth the outlook for rural commodities.

Extension type services are available from non-government sources. Some commercial firms and co-operatives provide extension or advisory services primarily for their clients. Over the past decade a new service of farm management consultants has emerged, providing fee or contract services ranging from property assessment or supervision to detailed farm management and development plans. Farmers' needs and interests were demonstrated by an initial phase of grouping themselves together in farm management clubs to employ their own advisors.

Crops and crop products

Wheat marketing and research

Two of the aspects of government and semi-government assistance and control which have contributed to the development of the industry are the organisation of overseas marketing and of research.

As a large proportion of the Australian wheat crop is exported, the marketing of wheat plays an important part in the industry. The Australian Wheat Board was constituted in September 1939, under National Security (Wheat Acquisition) Regulations, to purchase, sell, or dispose of wheat or wheat products and to manage and control all matters connected with the handling, storage, protection, shipment, etc. of wheat acquired, and such other matters as were necessary to give effect to the regulations. Details of the operations of the Australian Wheat Board and the Wheat Stabilisation Board in licensing wheat grown during the seasons 1941–42 to 1948–49 will be found in Year Book No. 38, pages 940–1 and a detailed survey of legislation relating to stablisation of the wheat industry, including controls exercised during the 1914–18 and 1939–45 Wars and legislation establishing the Wheat Industry Stabilisation Plan in 1948, is given in the Appendix to Year Book No. 37, pages 1295–9.

The Wheat Industry Stabilisation Board ceased to function on 31 December 1948, and under the Wheat Industry Stabilization Act 1948 the Australian Wheat Board was reconstituted to administer the first stablisation plan and was given powers similar to those held under the National Security Regulations. The new Board commenced to function on 18 December 1948. The Board has been

continued in existence by the Wheat Industry Stabilization Acts 1954, 1958, 1963-66 and 1968-73 for the purpose of administering the second, third, fourth and fifth five year stabilisation plans. Details of the more recent plans were published in Year Book No. 40, pages 841 and 842 (1947-48 to 1952-53 Plan), No. 44, page 861 (1953-54 to 1957-58), No. 48, pages 903 and 904 (1958-59 to 1962-63), No. 54, pages 868 and 869 (1963-64 to 1967-68), and No. 55, pages 834 and 835 (1968-69 to 1972-73).

The Fifth Wheat Industry Stabilisation Plan was to operate for five years, commencing with the 1968-69 crop and ending with the marketing of the 1972-73 crop. However, the plan was subsequently extended, for one year, to cover the 1973-74 crop. More detailed information is available in the publication: *The Wheat Industry*, 1973-74 and 1974-75 (*Preliminary*), (10.35).

Sixth Wheat Industry Stabilisation Plan, 1974-75 to 1979-80. The sixth post-war Wheat Industry Stabilisation Plan was agreed to by the industry and the Commonwealth and State Governments following negotiations during 1973 and 1974. The Wheat Industry Stabilization Act 1974 and the complementary Wheat Export Charge Act 1974 and the Wheat Products Export Adjustment Act 1974 were enacted in September 1974. Complementary legislation was enacted by the State Governments by the beginning of the marketing year on 1 December 1974 as some aspects of the plan rely on State law for their operation. The new plan abandoned the concept of guaranteed price, replacing it with a stabilised price related to movements in the International Wheat Market. Details of the guaranteed price operating under the former plan are given in earlier issues of the Year Book. The main features of the new stabilisation plan are set out below:

- (i) Period of the plan. The plan is to operate for five years commencing 1 October, 1974. The Australian Wheat Board's marketing powers will be extended for two seasons beyond the duration of the stabilisation plan to enable continuity of the Board's operations to be maintained.
- (ii) Stabilisation price. For the 1974-75 season the price was set at \$73.49 per tonne f.o.b. The price will be adjusted for each of the next four succeeding seasons by application of the formula

$$SP_2 = SP_1 + \frac{EP_2 - A_1}{4}$$

where SP₂ = stabilisation price for the current season;

SP₁ = stabilisation price for the season immediately preceding the current season;

EP₂ = the average export price for the current season, and

A₁ = one-half the sum of the average export price for the season immediately preceding the current season and the stabilisation price for the immediately preceding season.

- (iii) Average export price. The average price, f.o.b. equivalent, contracted to be paid for all exported wheat.
- (iv) Operation of the Stabilisation Fund. The Stabilisation Fund will commence with a credit balance (estimated at \$48 million) equal to the amount to be contributed as charge on wheat exports for the 1973-74 season.

Industry contributions to the Fund. When the average price for all exports of a season is above the stabilisation price set for that season, and above \$55.12 per tonne f.o.b., growers will contribute to the fund up to \$30 million or \$5.51 per tonne, whichever is the lower, subject to the growers' contribution not exceeding an amount which would bring the final price, that is, the average export price less the contribution to the fund, down to \$55.12 per tonne. If the aggregate of the growers' contributions plus the interest earning should at any time take the fund to a credit in excess of \$80 million, the excess will be refunded to the Wheat Board for distribution to the earliest contributing pool.

Payment from the Fund. When the average price for all exports of a season is below the stabilisation price set for that season, growers will receive from the fund payments necessary to lift the average price for all exports of the season to the stabilisation price, subject to,

- (a) maximum payment per season of \$30 million or \$5.51 per tonne, whichever is the lower, and
- (b) the payment not exceeding an amount which will bring the final price, that is the average export price plus the payment from the fund, to \$73.49 per tonne. A qualification is that should the credit of the fund reach \$80 million this restriction on payments from the fund will not apply for the ensuring period of the plan.

Government support for the Fund. If, in any season, the fund contains an insufficient level of industry contributions to meet payments required to be made from the fund in that season, the Government will contribute to the fund for monies necessary to meet the deficiency, subject to

- (a) Any Government contribution to the fund being repaid to the Government from industry contributions and subsequent seasons of the plan period before those industry contributions are accumulated in the fund, and
- (b) the net Government contribution to the fund over the 5 seasons not exceeding \$80 million.

The Government has agreed that any outstanding Government contributions not recouped by the end of the fifth season will be written off. Details of the former stabilisation fund arrangements are given in previous issues of the Year Book.

(v) Home consumption price. The home consumption price arrangements will continue on the existing basis except that the Act in authorising the Minister to determine, in consultation with the State Ministers, the price at which the basic wheat is to be sold by the Board on the domestic market, does so on the basis that it will be a single price for wheat for all purposes.

The home consumption price in each year commencing on 1 December will be adjusted on the base level of \$70.41 per tonne, being the 1973-74 price (less the Tasmanian freight loading), according to movements in cash costs and in rail freight and handling charges. Amending legislation passed in April 1976 provided for the inclusion of an owner/operator's labour allowance in the index adjustment of the home consumption price.

- (vi) Tasmanian freight loading. Continuing provision will be made for the Board to recoup in the the home consumption price the cost of shipping wheat from the mainland to Tasmania out on the basis that the Board will be empowered to take such steps as are practicable to recoup from Tasmanian interests the freight costs of the wheat equivalent of any products made from wheat of mainland origin and exported from Tasmania to the mainland.
- (vii) Nomenclature. The term 'fair average quality' (f.a.q.) has been replaced by the term 'Australian standard white' (A.S.W.) which means wheat other than wheat classified by or on behalf of the Australian Wheat Board as prime hard, hard, durum or soft biscuit wheat or as having a defect quality.
- (viii) Quota arrangements. The Act contains provisions for the retention of the wheat delivery quota mechanism on the basis that it will be optional whether State governments make allocations of any State quotas, which may be applied in a season, to individual growers. However, the Act continues the existing requirement that in a quota season advances will only be payable by the Board on wheat delivered within a State up to the level of the quota determined for that State.
- (ix) Borrowings by the Board. The Board retains the authority to borrow from the Reserve Bank, through its Rural Credits Department, the funds required for first advance payments to growers and for its marketing operations. In addition it is being given a supplementary borrowing power which could be used to make progress payments to growers at an accelerated rate, to expedite repayment of seasonal borrowings from the Reserve Bank or to finance stock holdings for lengthy periods. It is envisaged that the Board will only be authorised to borrow commercially against fully secured outstanding debts. All borrowings will be with the approval of the Minister and a Government guarantee of repayment may be given.
- (x) First Advanced Financial Arrangements. As has applied since 1948, the Wheat Industry Stabilization Act 1974 empowers the minister for Primary Industry to provide a Commonwealth Government guarantee against the borrowings the Wheat Board makes from the Rural Credits Department of the Reserve Bank to enable the Board to pay a first advance on the delivery of wheat to it. The level of the first advance is determined on each occasion by the Minister.

Wheat prices: Home consumption prices. Amending legislation, with effect from December 1969, gave the Australian Wheat Board discretionary power to sell wheat in Australia for purposes other than human consumption at prices below that set for human consumption but not less than the equivalent of the guaranteed price. However, as indicated in (v) above, at the beginning of the 1973-74 season the Board reverted to selling all wheat on the home market at a single domestic price i.e. the home consumption price.

The table following shows the home consumption prices of wheat by end usage, for the last five years.

WHEAT PRICES: HOME CONSUMPTION PRICES(a)(b) (\$ per tonne)

| Utilisation | 1971-72 | 1972–73 | 1973–74 | 1974-75 | 1975-76 |
|---|----------------|------------------|---------|---------|----------|
| Human consumption | 65.40 | 67.63 | | | |
| Manufacture of flour for industrial use Stockfeed (basic) | 54.75 58.79 | 56.97 67.63 } | 71.10 | 83.40 | (c)98.70 |
| Stockfeed (where purchaser undertakes to buy entire season's requirements from Wheat Board) | 54.75 | 56.97 | | | |

⁽a) Australian Wheat Board basic selling price for A.S.W. bulk wheat, f.o.r. (ports) basis. (b) Includes a loading of \$0.44 in 1971-72, \$0.83 in 1972-73, \$0.69 in 1973-74, \$0.67 in 1974-75 and \$1.15 in 1975-76, to meet freight charges on wheat shipped to Tasmania. (c) Increased to \$99.32 from May 1976 following the inclusion of an owner/operator's allowance in the index adjustment of the home consumption price.

Wheat delivery quotas plan

In March 1969 the Australian Wheat Growers' Federation put forward proposals for the allotment of quotas on deliveries of wheat to the Australian Wheat Board. The Federation's proposals were mainly designed to bring marketable supplies of wheat more into line with available outlets, following the record 1968-69 harvest. The proposals became effective for the 1969-70 harvest. State governments have the responsibility, for constitutional reasons, of implementing the quota plan within the States and each State enacted the necessary enabling legislation. The period of operation of the legislation varies among the States.

Quotas are subject to annual review. Wheat in excess of a quota may be received from a grower if storage space is available but 'quota wheat' will receive preference as far as receival and subsequent sale by the Australian Wheat Board is concerned.

State quotas effective for the 1971-72 to 1973-74 seasons and those proposed by the Federation and agreed to by all parties for 1974-75 are given in the table below. Delivery quotas were suspended for the 1975-76 season and again for the 1976-77 season.

WHEAT DELIVERY QUOTAS ('000 tonnes)

| | | | | | | | | | |
|------------|------|------------------------------------|---|---|---|---------|---------|-----------|-----------|
| | | | | | | Seasons | | | |
| Quota | | State | | | | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
| Basic . | | New South Wales | | • | | 3,102 | 4,028 | 5,030 | 5,030 |
| | | Victoria | | | | 1,551 | 1,823 | 2,490 | 2,490 |
| | | Queensland . | | | | 735 | 871 | 1,012 | 1,012 |
| | | South Australia | | | | 1,089 | 1,252 | 1,886 | 1,886 |
| | | Western Australia | | • | • | 2,068 | 2,585 | 3,065 | 3,065 |
| | | Total | | • | | 8,545 | 10,559 | 13,483 | 13,483 |
| Additional | | New South Wales- | - | | | | | | |
| | | Prime hard . | | | | 327 | 191 | 191 | 191 |
| | | Durum Queensland— | • | • | • | 54 | 54 | 54 | 54 |
| | | Prime hard . | | | | 299 | 163 | 163 | 163 |
| | | South Australia—- Southern hard | | • | | | 109 | 109 | 109 |
| | | Total | | | | 680 | 517 | 517 | 517 |
| | | Grand total | | | | 9,225 | 11,076 | (a)14,000 | (a)14,000 |

⁽a) In terms of '000 tonnes the national and State quotas are: New South Wales 5,275, Victoria 2,490, Queensland 1,175, South Australia 1,995, Western Australia 3,065, total 14,000. In addition, for 1974-75 (as in 1973-74) provision has been made for a special pool quantity of 2,000,000 tonnes which will be available as determined by the Minister for Primary Industry, to any State that achieves deliveries in excess of its quota.

Deliveries made within the quotas established receive a first advance payment. This was \$1.10 per bushel (\$40.42 per tonne) for A.S.W. bulk wheat, f.o.r. ports basis for a number of years. For 1973-74 in addition to \$1.10 there was a special incentive first advance payment of 10 cents per bushel (\$3.67 per tonne). For 1974-75 there was the same first advance payment of \$1.20 per bushel (\$44.09 per tonne). The quota plan also provides that wheat received which is declared by the Australian Wheat Board to have been sold and paid for within the season will be treated as quota wheat of the season and receive a first advance payment.

The States are responsible for determining the method of allocation of individual quotas within their respective boundaries. The bases of quota allocation vary from State to State, but in the main, quotas are based on a farm's average deliveries over a recent period.

International Wheat Agreement

Details of the first and second International Wheat Agreements operative from 1 August 1949 to 31 July 1953, and from 1 August 1953 to 31 July 1956, respectively, were published in Year Book No. 42 (see pages 840-1) or previous issues. Details of the third, fourth and fifth International Wheat Agreements which covered the periods from 1 August 1956 to 31 July 1959, 1 August 1959 to 31 July 1962 and 1 August 1962 to 31 July 1968 were published in Year Books 43 (page 836), 48 (page 906) and 55 (page 836) respectively.

International Wheat Agreement, 1971. This Agreement came into force on 1 July 1971. It originally had a life of three years but was extended twice by protocol to 30 June 1976. The form of the 1967 International Grains Arrangement (see Year Book No. 55, page 836) was continued and the new Agreement comprises two separate legal instruments, namely the Wheat Trade Convention and the Food Aid Convention

The new Wheat Trade Convention ensures that the machinery for consultation and co-operation on wheat marketing existing under earlier Agreements will be maintained. The administrative body, the International Wheat Council, continues in existence. The Convention provides for the continuation of the full reporting and recording of all commercial and concessional transactions in wheat and flour.

The 1971 Wheat Trade Convention differs in an important aspect from earlier agreements in that it contains no specific pricing provisions, but the agreement specifically provides that when prices and related rights and obligations are judged capable of successful negotiation, the International Wheat Council shall arrange a further conference with the objective of bringing them into effect. In addition, an Advisory Sub-Committee on Market Conditions keeps the wheat market under continuous review. This Sub-Committee is required to report to the Executive Committee of the Council if it considers that a situation of market instability has arisen, or threatens to arise. The Executive Committee will then review the situation and try to find mutually acceptable solutions.

All major wheat trading nations except China (excluding Taiwan Province) participate in the Wheat Trade Convention. China may participate if it so wishes.

The Food Aid Convention is basically unchanged from the previous arrangement. Under this Convention a number of developed countries, importers and exporters alike, will continue to provide developing countries with food aid in the form of grains or flour for human consumption (or the cash equivalent thereof). Australia's contribution will remain unchanged at 225,000 tonnes annually (8,267,000 bushels of wheat). Minimum annual contributions under the Convention total 4,226,000 tonnes in 1975–76.

Several minor changes were incorporated in the new Food Aid Convention. A new clause provides that in exceptional cases, and on request, limited quantities of rice may be included in the program. Also, sales on credit terms of 20 years or more are eligible to be counted against aid commitments provided that maximum use is made of the other eligible forms of aid such as grants and sales for non-transferable local currency.

The International Wheat Agreement was again (in 1976) extended by protocol to run two years to 30 June 1978. The Council has established a Preparatory Group to examine the possible basis for a new agreement.

Research into the wheat industry

To the end of June 1975, the Wheat Industry Research Council and the State Wheat Industry Research Committees had spent \$23,726,000 mainly through grants to the Commonwealth Scientific and Industrial Research Organization, State Departments of Agriculture, Australian Universities and Wheat Research Institutes.

SUGAR CANE

Sugar agreements and marketing arrangements in Australia

In Year Book No. 37, pages 940-1, a summary is given of the form of agreement which operates between the Commonwealth and Queensland Governments in respect of the sugar industry in Australia. Briefly, the agreement places an embargo on sugar importations and fixes the maximum price (in centres in which refineries are established and in Hobart, Launceston and Darwin) of refined sugar sold to wholesalers for consumption in Australia. The 1975 Sugar Agreement between the

Commonwealth and Queensland Governments (18th Agreement since the 1923 Sugar Agreement when the control of marketing was passed to Queensland) came into operation on 1 February 1975 for an agreed period ending 30 June 1979.

Control over production of sugar is the responsibility of the Queensland Government. At the mill level, production control is exercised by means of seasonal 'mill peaks' in respect of Queensland mills and a proportionate allowance for New South Wales mills. The combined total of 'mill peaks' approximately equals the estimated requirements of the domestic and secure export markets. Individual farm production is regulated in accordance with the production limit on that mill which the farm supplies.

The Queensland Government acquires the whole of the sugar production of that State and of New South Wales, by legislation and private agreement respectively. The net proceeds of all sugar sold are pooled and uniform prices paid to mills. Production in 1974–75 was 2,847,910 tonnes basis 94 net titre and for 1975–76 is estimated at 2,854,382 tonnes 94 net titre, of which New South Wales production contributed 103,962 tonnes.

International Sugar Agreement

The 1973 International Sugar Agreement, which is now in operation, came into force on the expiry of the 1968 Agreement; and that Agreement was preceded by the 1937, 1953, and 1958 Agreements. Details of the 1937, 1953, 1958 and 1968 Agreements were given in Year Books No. 40, pages 881-2; No. 48, page 936; No. 54, page 892; and No. 59, pages 782-3, respectively.

A United Nations Sugar Conference was convened in 1973, the last year of the 1968 Agreement, to negotiate a new International Sugar Agreement to follow on the 1968 Agreement. It was not possible to negotiate at the Conference an Agreement with regulatory provisions, such as the 1968 International Sugar Agreement, which established basic export tonnages for all exporters, a quota/price mechanism, and stockholding, supply commitment, and import limitation obligations.

The 1973 International Sugar Agreement is only an administrative Agreement. It provides for the continuation of the International Sugar Organisation, and for work to progress towards the negotiation of a new Agreement. Initially of two years duration, the term of operation of the Agreement was extended to 31 December 1976 by resolution of the International Sugar Council at its September 1975 meeting.

Australia is an exporting member of the International Sugar Organisation under the 1973 International Sugar Agreement.

Commonwealth Sugar Agreement

Under the terms of the Commonwealth Sugar Agreement, Australia has supplied over 300,000 tonnes of sugar annually for over twenty years to the United Kindgom at a negotiated price. At the 1971 triennial review of the Agreement, the annual negotiated price quota was continued at 335,000 long tons, and the negotiated price for the three years 1972 to 1974 was agreed at £stg 50 per long ton f.o.b. and stowed, bulk sugar 96° polarisation. In early 1974, it was agreed that an additional £stg 11 per ton would be paid on shipments of negotiated price sugar in the 1974 calendar year.

The Commonwealth Sugar Agreement terminated at the end of 1974, as a consequence of the United Kingdom's accession to the European Economic Community.

Exports to the United States of America

Australian sugar exports to the United States of America were, in the past, subject to the quota provisions of the United States Sugar Act, which expired at the end of 1974, and thus varied from year to year following changes in quotas as U.S. requirements and domestic production, and export availabilities of other suppliers, changed. In 1973 and 1974 exports to the U.S. totalled 230,802 and 209,381 tonnes tel quel sugar respectively. Following expiration of the quota provisions, 470,551 tonnes tel quel sugar were exported to the U.S. in 1975.

Fruit Industry Sugar Concession Committee and sugar rebates

The Fruit Industry Sugar Concession Committee was established by agreement between the Commonwealth and Queensland Governments and administers a fund provided from contributions by the Queensland Government on behalf of the sugar industry.

Until 15 May 1960 a domestic rebate of \$4.33 a tonne of refined cane sugar used in processing approved fruit products was paid to Australian manufacturers, provided they bought fresh fruit for processing at prices not lower than those declared by the Committee. This was increased to \$9.84 a tonne from 16 May 1960, to \$14.76 a tonne from 1 July 1969 and to \$15 per tonne from 1 February 1975.

ASSISTANCE TO, AND REGULATION OF, AGRICULTURE CROPS AND CROP PRODUCTS

The Queensland Government is responsible for payment of an export sugar rebate to exporters of approved fruit products and other approved products to ensure that manufacturers do not pay higher prices for the Australian sugar content of those products than the Australian equivalent of the world sugar parity price. Payment is made upon satisfactory arrangements having been made for payment for the fresh fruit used for processing at not less than the minimum prices (if any) which the Committee has declared.

Financial assistance to the sugar industry

Under the provisions of the Sugar Marketing Assistance Agreement Act 1967 and the Sugar Industry Assistance Act 1967 the Commonwealth Government arranged two loans to assist the return from No. 1 Pool in the 1966 and 1967 seasons. The total amount of \$23,327,590 so advanced is repayable over ten years commencing in mid-1971, and was not subject to interest before then. Thereafter it incurs interest at the rate of five per cent per annum.

TOBACCO

Tobacco marketing

Between 9 May 1941 and 24 September 1948 all leaf was under the direct control of the Australian Tobacco Board, and prices were paid on leaf appraisal. Subsequently the Board was disbanded, and sales have been by open auction through the Tobacco Leaf Marketing Board (Queensland and northern New South Wales) and the Victorian Tobacco Growers Association Ltd (southern New South Wales and Victoria). In 1964 the Victorian Tobacco Leaf Marketing Board was set up to market the portion of the crop that was formerly sold by the Victorian Tobacco Growers Association Ltd, and in 1965 a Board was established in New South Wales. However, the actual physical handling of New South Wales leaf at auction is carried out by the Queensland and Victorian authorities.

In 1965 the Commonwealth and State Governments agreed to a stabilisation plan for the tobacco growing industry with an annual marketing quota of 11.793 million kilograms (green weight) of leaf to be sold under an agreed grade and price schedule providing for an average minimum price based on normal crop fall-out. The overall marketing quota is divided among tobacco-producing States according to a formula approved by the Australian Agricultural Council. The determination of grower disputes in regard to quotas from State allocations is the responsibility of State Quota Committees.

In 1968, the final year of the plan, the Governments concerned agreed that it should continue for a further period of five years with an increased marketing quota for the 1969 selling season of 12.927 million kilograms, which was subsequently increased to 14.288 million kilograms to correct industry stockholdings which were depleted by higher than expected manufacturer usage. Provision was made for an annual review of the quota and in 1970 a basic quota of 15.422 million kilograms which was set for the 1971 season was retained through to the 1976 season. Each quota is to be divided among the producing States in the same proportions as the original quota.

The plan is administered by the Australian Tobacco Board, constituted under the *Tobacco Marketing Act* 1965 and representative of the Commonwealth Government, tobacco-producing States, growers and manufacturers.

The guaranteed average minimum Australian price for the 1971, 1972 and 1973 seasons, 252.4 cents per kg, is 12.1 cents per kg above the price set for the 1970 season. The price for the 1974 season was set at 288.4 cents per kg, for 1975 at 336.4 cents per kg, and for 1976 at 347 cents per kg.

Central Tobacco Advisory Committee

The Australian Agricultural Council formed the Standing Advisory Committee on Tobacco during 1950. This Committee consisted of representatives of tobacco growers, tobacco manufacturers and the Commonwealth and State Governments. Its main functions were to review the industry and make recommendations on factors affecting its development and progress. The Committee was reconstituted as a Central Tobacco Advisory Committee in 1952-53.

In order to receive funds for increased research and extension activities, the Tobacco Industry Trust Account was established by the *Tobacco Industry Act* 1955 and came into operation on 2 December 1955. Growers and manufacturers contribute to the Trust Account by way of levies imposed on Australian leaf sold and purchased. These industry contributions are matched by the Commonwealth Government with payments made as funds are expended. The Governments of the three tobacco-producing States make fixed annual contributions. Money standing to the credit of the Account may be applied for the purpose of research and investigation in connection with the tobacco industry, the training of personnel and the publication and dissemination of scientific and technical information for the industry.

The Central Tobacco Advisory Committee is required to make recommendations to the Minister for Primary Industry in regard to expenditure from the Tobacco Industry Trust Account. By 30 June 1975 expenditure from the Account amounted to \$12.5 million, and allocations for support of research projects in 1974–75 totalled \$1,037,252.

Tobacco research and extension

The Commonwealth Scientific and Industrial Research Organisation closed down operations of the Tobacco Research Institute, Mareeba, on 30 June 1975. Some plant breeding work is being continued in Canberra, but this will cease in August 1976. The C.S.I.R.O. will then no longer be actively associated with tobacco research. The New South Wales Department of Agriculture ceased tobacco research activities from the end of the 1974–75 season. The Victorian Department of Agriculture and the Queensland Department of Primary Industries are expanding their research activities to take over the plant breeding program previously undertaken by the C.S.I.R.O., as well as maintaining investigations into a wide range of problems including fundamental and applied research, plant nutrition, disease and pest control and cultural practices. They are continuing to maintain extension services for tobacco growers. A Mechanisation Sub-Committee of the Central Tobacco Advisory Council was established in 1970 to investigate and advise on practical aspects of mechanisation of the tobacco-growing industry.

Tobacco factories

Manufacturers of Australian cigarettes and tobacco are granted a lower rate of duty on imported tobacco leaf, provided it is blended with a prescribed minimum percentage of Australian leaf. These percentages, which in November 1946 stood at 3 per cent for cigarettes and 5 per cent for tobacco, have been increased progressively in intervening years and since 1 January 1966 have been set at 50 per cent for both cigarettes and tobacco.

In 1974-75 the quantity of cured leaf recorded as used in tobacco factories in Australia amounted to 24.2 million kg, of which 13.6 million kg was of local origin. The balance was imported, chiefly from the United States of America.

COTTON

Final payments under the Raw Cotton Bounty Act 1963 were made in 1971. For further details see Year Book No. 59 and earlier issues.

FRUIT

Apples and pears

The Australian Apple and Pear Corporation Act 1973, which was proclaimed on 1 September 1974, provided for the establishment of an Australian Apple and Pear Corporation which replaced the Australian Apple and Pear Board.

The Corporation consists of nine part-time members (an independent Chairman, four members to represent growers, three members with special qualifications and one member to represent the Commonwealth Government) who are appointed for a period of three years. The Australian Apple and Pear Board's overseas representative in London has been retained by the Corporation.

Export control and regulation functions of the previous Apple and Pear Board have been absorbed by the Corporation. It also has been provided with a much wider role, e.g. powers to trade under certain circumstances, to charter shipping for such trade and, subject to Government approval, to borrow funds for trading operations. In addition, it has important functions in promotion and research in both fresh and processed apple and pear products.

Early in October 1971 the Government approved a stabilisation plan for the export of apples and pears 'at risk', with an estimated Commonwealth Government liability of \$10 million over five years, commencing with the 1971 season. The plan establishes average seasonal returns (including the returns from forward sales) for each variety, which are then compared with the agreed support price for each variety and the extent of the deficiency or surplus is determined. The Government approved the recommendation of the Industries Assistance Commission Report on Fruit Growing extending the apple and pear stabilisation scheme for the 1976 season.

The Fruitgrowing Reconstruction Scheme

The Fruitgrowing Reconstruction Scheme, which commenced on 14 July 1972, provides \$4.6 million to assist fruitgrowers who are in financial difficulties to remove some or all of their fruit trees and either leave the industry or put the land to other use. It is regarded as an extension of the Rural Reconstruction Scheme; fruitgrowers may receive assistance under both schemes.

ASSISTANCE TO, AND REGULATION OF, AGRICULTURE CROPS AND CROP PRODUCTS

A fruitgrowing industry may qualify for assistance under the Scheme if its trees take at least five years to mature, have a commercial bearing life of at least ten years, and produce fruit of which there is a chronic over-supply. The Scheme applied initially to the canning peach, canning pear, fresh apple and fresh pear industries. In March 1973 it was extended to include the canning apricot industry and provision exists for its extension to any fruitgrowing industry which meets the above criteria.

A grower is eligible to apply for assistance under the Scheme if the Authority is satisfied that the number of trees which he has, of the kind that qualifies for assistance, constitutes a commercial operation.

Two forms of assistance are offered:

Clear fell for the grower who is predominantly a fruitgrower and who is in severe financial difficulties and intends to clear fell his orchard and leave the fruitgrowing industry.

Partial fell for the grower who does not have adequate resources to withstand the short term effects on his economic viability of removing the trees without assistance; the surplus of the horticultural commodity concerned is threatening the long term viability of his property; and where the Authority considers the enterprise has sound prospects of long term commercial viability after removal of the surplus trees and using the land for other purposes.

Assistance is provided in the form of a loan which is converted to a grant after 5 years provided the grower honours his undertaking not to replant with specified trees within that period. Specified trees are those upon which assistance was paid. The maximum rate of assistance per acre is \$350 for fresh fruit and \$500 for canning fruit. Average rates in each State must not exceed \$250 for fresh or \$350 for canning fruit.

The closing date for applications for assistance was originally 30 June 1973 but it was extended to 31 December 1975. To 30 June 1975 \$3.1 million had been approved to assist almost 1,000 fruitgrowers.

Canned Fruit

The overseas marketing of canned fruit is regulated by the Canned Fruits Export Marketing Act 1963. Under this Act the Australian Canned Fruits Board sets terms and conditions for overseas sales. All exporters must hold an export licence authorised by the Minister for Primary Industry on the recommendation of the Board. The Board comprises representatives of the Commonwealth Government (one), co-operative canners of deciduous fruit (three), proprietary canners of deciduous fruit (three), pineapple canners (one) and growers of deciduous canning fruit (three). The Board maintains a London office. The Canned Fruits Export Charges Act 1926 provides for a levy on exports to meet the Board's expenses, which include contributions to overseas publicity connected with the canned fruit industry. In 1963 an excise duty was imposed by the Canned Fruits Excise Act 1963 on canned deciduous fruit entered for domestic consumption, and the proceeds of the duty are made available to the Board.

In 1959 the Australian Canned Fruit Sales Promotion Committee was established to promote the sale of canned deciduous fruit on the home market and overseas. The operations of the Committee are financed by a levy on fruit accepted by the canneries for the production of canned fruit. The Committee comprises representatives of growers and processers of canning fruit and a representative of the Commonwealth Government.

DRIED VINE FRUITS AND WINE

The Dried Vine Fruits Stabilization Act 1971 (for details of the first Dried Vine Fruits Stabilization Scheme, which expired with the disposal of the 1968 crop, see Year Book No. 55, page 877, and earlier issues). A referendum of eligible dried vine fruit producers was held in September 1971 concerning a new five-year stabilisation plan for the dried vine fruits industry. The result of this referendum was that growers were in favour of the introduction of a new plan. Accordingly, legislation was enacted in December 1971. The plan operates as from the 1971 season for a period of five years. The scheme has been extended to cover the 1976 crop following the Industries Assistance Commission Report on Fruit Growing which recommended that the existing Dried Vine Fruit Stabilization Scheme be extended to cover the 1976 crop but should not apply beyond the 1977 crop.

The Dried Fruits Export Control Act 1924. For details of the Dried Fruits Export Control Act see Year Book No. 55, page 877, and earlier issues.

The Wine Overseas Marketing Act 1929 was introduced to place the overseas marketing of wine on an orderly basis. The Australian Wine Board, consisting of representatives from wineries and distilleries, grape growers and the Commonwealth Government, supervises the sale and distribution

of Australian wine exported and recommends conditions under which export licences should be issued. The Board also engages in wine publicity and trade promotion activities both in Australia and overseas. In London the Board maintains an Australian Wine Centre, which is a medium for promoting interest in Australian wines and brandy. It is also a retail shop for the sale of these products. The Wine Grapes Charges Act 1929 provides for the imposition of a levy on all grapes used in Australia for the manufacture of wine, brandy and spirit used for fortifying wine. The proceeds of the levy are used to meet the Board's projects in Australia and overseas and to defray the administrative expenses of the Board, which has no other source of income.

Livestock and livestock products SHEEP

Exports and imports of sheep

The movement of sheep to and from Australia is governed under Customs regulations. Exports of both breeding and slaughter sheep are subject to the provision of a permit from the Department of Primary Industry. For most breeds, these permits are freely granted. However, the export of breeding merinos was prohibited in 1929. A complete prohibition on the export of merino sheep has been maintained since then, except during a three year period between February 1970 and February 1973. In that period the prohibition was partially relaxed and up to 300 merino rams could be purchased for export each year at nominated public auctions. In February 1973 the Government reimposed the total ban on the export of merinos to any country except New Zealand pending a referendum of woolgrowers on the question of whether the export of merino rams and merino semen should be permitted and if so, whether exports should be restricted or unrestricted.

A voluntary poll of woolgrowers was held during October/November 1973 and a majority of voters favoured a continuing prohibition on the exports. Of the 123,000 persons eligible to vote 47.6 per cent returned ballot papers. Of the votes admitted to the count: 17 per cent voted for unrestricted exports, 23.3 per cent voted for restricted exports and 58.5 per cent voted for total prohibition on exports (1.2 per cent of votes were rejected as informal). The Government accepted the view of those who voted at the referendum and a complete prohibition continues on the export of all merino rams, ewes, semen and fertilised ova, to countries other than New Zealand.

Since June, 1958 there has been a prohibition on the imports of sheep (which is still operative except for sheep imported from New Zealand) to protect the Australian sheep industry from the introduction of exotic diseases, such as "blue-tongue".

WOOL

The Australian Wool Industry Conference

This body was formed by woolgrowers in October 1962 to meet the need for an organisation with sufficient authority to speak on behalf of the woolgrowing industry as a whole. It is not a statutory body and consists of twenty-five members each from the Australian Woolgrowers' and Graziers' Council and the Australian Wool and Meat Producers' Federation. The fifty member conference is presided over by an independent chairman.

The Conference makes recommendations to the Commonwealth Government on policy matters concerning the wool industry. Under the *Wool Industry Act* 1972 it is the responsibility of the Conference to nominate woolgrower representatives for appointment to the Australian Wool Corporation, and the Conference has to be consulted on the appointment of Corporation members with special qualifications. Under the Wool Tax Acts (*see* page 597) the Conference is also responsible for recommending to the Commonwealth Government what rates of levy should be paid by woolgrowers to finance the activities of the Wool Corporation and the wool research program.

Committee on Wool (Randall Committee)

In October 1971 the Commonwealth Government appointed a committee chaired by Sir Richard Randall, former permanent head of the Treasury, to report on the situation and outlook of the Australian Wool Industry. The report of the Committee on these matters was presented to the Prime Minister on 16 May 1972.

In March 1972 the Australian Wool Industry Conference submitted to the Commonwealth Government a proposal for;

- (i) a revised structure for the management of the industry's affairs through the amalgamation of the Australian Wool Board and the Australian Wool Commission into a single wool authority, and
- (ii) an integrated marketing system, involving a plan for acquisition of the Australian clip and influencing all of the activities bringing wool from the raw material stage to the ultimate consumer.

The Government asked the Committee to examine this proposal. The Committee presented the final report on this examination on 29 May 1972.

A report on all the investigations and findings of the Committee was released publicly in August 1972. On the A.W.I.C. proposal the Committee viewed the first part favourably but considered that some aspects of the acquisition proposal needed further clarification.

Australian Wool Corporation

Following the Australian Wool Industry Conference submission and the report of the Randall Committee (see above) the Australian Wool Corporation was established under the Wool Industry Act 1972 and came into operation on 1 January 1973. The Corporation took over the functions of both the Australian Wool Board and the Australian Wool Commission which ceased to operate on that date.

The Corporation consists of ten members, including a full-time Chairman. The Chairman is appointed for a period of five years with the other part-time members being appointed for a period of three years. Of the nine other members, four represent Australian woolgrowers, one represents the Commonwealth Government and four are members with special qualifications who have experience in the marketing, processing or manufacture of wool or wool products or in commerce, finance, economics or science. All members including the Chairman are appointed by the Minister for Primary Industry, the woolgrower representatives from a panel of names submitted by the A.W.I.C. and the four members with special qualifications after consultation with the A.W.I.C.

The functions of the Corporation, which were inherited almost directly from the Wool Commission and Wool Board (see below) relate to wool marketing, wool use promotion, wool testing, wool research and the management of wool stores. In addition, the Corporation is required to enquire into methods of marketing wool and to report on matters relating to marketing. A comprehensive report on wool marketing was released on 17 January 1974 in which the Corporation recommended the adoption of procedures aimed at stabilising wool prices and regulating availability. The central recommendation of the report was that the Corporation acquire ownership of all wool for export. The proposal was submitted by the Corporation to the Commonwealth Government and is under study.

For the 1974-75, 1975-76 and 1976-77 seasons, the Corporation was authorised by the Government to operate a minimum reserve (floor) price at wool auctions. Credit facilities for \$350 million were provided by the Government to the Corporation for this purpose. These are additional to credit available to the Corporation from commercial sources. Woolgrowers are required to pay a levy of 5 per cent on sales proceeds of shorn wool for a reserve against possible losses from the scheme.

Funds for other activities of the Corporation (notably wool promotion) are provided jointly by woolgrowers through a levy on shorn wool proceeds (see below), and the Commonwealth Government.

Australian Wool Board

The Australian Wool Board which was constituted under the *Wool Industry Act* 1962 ceased to function on 1 January 1973 when the Australian Wool Corporation (see above) commenced operations. For details of the Australian Wool Board see Year Book No. 58, page 800.

Australian Wool Commission

The functions of this body, which began operation in November 1970 under the *Wool Commission Act* 1970, were taken over by the Australian Wool Corporation on 1 January 1973.

For details of the Commission's activities see Year Book No. 58, pages 802-3.

Wool levy

Since 1936 a statutory levy has been collected from woolgrowers to finance wool promotion activities. The initial rate of 5c a bale was increased at the request of woolgrowers to 20c a bale in 1945 and 40c a bale in 1952, the latter rate continuing until 1960. Further details regarding the operation of this levy prior to 1957 appear in Year Book No. 48, page 978.

Under legislation passed in 1957 provision was also made for the payment by woolgrowers of a contribution for wool research which was fixed at 20c a bale. In 1960 the wool promotion levy was raised to 50c a bale, and the following year it was increased further to \$1 a bale. The operation of this rate was subsequently extended for 1962-63 and 1963-64.

On 1 July 1964 the basis for collecting the woolgrowers' combined levy for wool promotion and research was changed from a flat rate per bale to a percentage deduction from the gross value of shorn wool sold. A maximum rate of 2 per cent was fixed, but provision was made for a lower rate to be prescribed, if appropriate. For 1964-65 the rate was set at 1.875 per cent, which involved

a substantial increase in payments by woolgrowers for promotion (from \$1 per bale to the equivalent of about \$2.70 per bale), while the research component of the levy was left unaltered at 20c per bale. In 1965-66 the levy was set at 2 per cent and it remained at the maximum rate till 1969-70. From 1 August 1970, the rate of levy was reduced to 1 per cent.

Following agreement between the Australian Wool Industry Conference and the Government on overall funding of wool research and promotion activities, the rate of the levy for 1973–74 was raised to 2.4 per cent, for 1974–75 to 2.75 per cent and for 1975–76 to 3 per cent. The rates for these years include a loading (previously collected as a separate charge) for the administration costs of the Corporation's activities in the wool marketing field.

The imposition and collection of the combined levy from woolgrowers is governed by six complementary Acts, the Wool Tax Acts (Nos. 1 to 5) 1964 and the Wool Tax Administration Act 1964.

From 2 September 1974, an additional component of 5 per cent was added to the wool levy. This component is collected to provide a reserve against any losses that may be incurred from the operation of the minimum reserve price scheme at wool auctions.

Commonwealth Government's contributions to wool research and promotion

In 1945 the Commonwealth Government commenced contributing on a statutory basis to wool research. Initially the contribution was at the rate of 20c a bale, but this was doubled in 1957 to 40c a bale. At this rate the Commonwealth Government contributed about \$2 million to wool research in 1965-66, and a similar sum was provided in 1966-67.

Prior to 1964-65 the Commonwealth Government had not contributed to wool promotion. However, following representations made by the Australian Wool Industry Conference, the Government undertook to provide assistance to the Australian Wool Board in financing its commitment to the greatly expanded wool promotion program of the International Wool Secretariat. The expanded wool promotion program, announced by the Secretariat, envisaged an increase in the Wool Board's annual contribution to overseas wool promotion campaigns from the then level of \$5 million to about \$20 million.

From 1 July 1964 the Commonwealth Government undertook to match on a \$1 for \$1 basis any increase in contributions by woolgrowers for wool promotion in excess of the levy of \$1 a bale then in force, and the Wool Industry Conference agreed to increase the growers' levy to the equivalent of about \$2.70 a bale, which resulted in a Government commitment of about \$1.70 a bale. In aggregate this commitment entailed a Commonwealth Government contribution for promotion of about \$8 million a year. This arrangement operated until 30 June 1967.

During 1967 the Wool Industry Act was amended following negotiations between the Executive of the Australian Wool Industry Conference and the Government. The amendment provided for a Government contribution for wool research and promotion during the three years 1967-68 to 1969-70 on a \$1 for \$1 basis matching woolgrowers' contribution by levy, to a maximum of \$14 million in any one year. It provided for the grower levy and the Government grant to be apportioned annually between wool research and promotion by the Minister for Primary Industry after considering the recommendations of the Australian Wool Industry Conference. No change occurred in the legislation providing for the payment by woolgrowers of a levy at a rate not exceeding 2 per cent per annum.

When arrangements for Government financial support for wool research and promotion expired on 30 June 1970, the Government increased its contributions for these activities to an average of \$27 million a year for each of the three years 1970-71 to 1972-73. At the same time, as mentioned above, the levy on woolgrowers was reduced from 2 per cent to 1 per cent of the gross proceeds from the sale of shorn wool.

For 1973-74, pending a Government review of the programming and funding of wool research and promotion, the overall expenditure of \$43.8 million for wool research and promotion was financed by a Government grant of \$22 million and by revenue from the Wool Tax—2.4 per cent of the gross proceeds from the sale of shorn wool. Following its review of the funding of wool research and promotion, the Government decided to provide one-half of the cost of the approved wool research and promotion programs. In 1974-75 and the subsequent two years it is supporting three-quarters of the cost of the research programs and one-quarter of the promotion programs. This has involved Government contributions of \$22 million in 1974-75, \$20 million in 1975-76, and \$21 million in 1976-77.

Australian Wool Marketing Corporation Pty Ltd

The functions of this body, which began operations on 1 July 1970 were taken over by the Australian Wool Commission (see above) in November 1970. For details of the Marketing Corporation see previous issues of the Year Book.

Emergency financial assistance for woolgrowers

In the 1970-71 Budget an amount of up to \$30 million was provided for emergency assistance to woolgrowers to offset to some extent the decline in wool income resulting from the drastic slump in wool prices between 1968-69 and 1969-70. About \$21.5 million was paid out in grants to over 21,000 woolgrowers during 1970-71 and 1971-72.

Wool Deficiency Payments Scheme

This scheme was initially introduced for the 1971-72 season, to give woolgrowers a guaranteed minimum return for their wool clip. It was subsequently extended for a further period of twelve months. The operative provisions of the legislation lapsed at 30 June 1973. For details of the Wool Deficiency Payments Scheme see Year Book No. 58, page 803.

Objective measurement of wool

In 1969 the former Australian Wool Board, through its Objective Measurement Technical Committee and Objective Measurement Policy Committee, began investigations into the objective measurement of wool and the significance of this development for the marketing of the Australian wool clip.

In 1970 the Commonwealth Government provided \$1.5 million for work on research and implementation of objective measurement techniques.

The findings of the Committees were presented to the Board in December 1972, and pointed to significant changes from the traditional processes involved in every stage of the marketing process. Savings of several dollars per bale could be achieved in the marketing of wool, especially through the separation of handling and selling centres of wool. The Committee noted that further refinements and developments in techniques would occur.

The Department of Primary Industry has established a monitoring unit, as recommended by the Committee, to ensure the maintenance of standards and accuracy in sampling and measurement of wool for sale by sample and objective measurement. The unit, the Australian Wool Measurement Standards Authority, operates a voluntary registration scheme for wool testing laboratories and sampling sites. Prior to registration, laboratories and sampling sites are closely inspected by the Authority's officers to ensure they meet the high standards required. After registration, continuing surveillance is employed to ensure the required standards are maintained.

MEAT

Australian Meat Board

The Australian Meat Board is the body responsible for controlling the external marketing of Australian beef, mutton and lamb. It consists of six members representing meat producers, two representing meat exporters, one representing the Commonwealth Government, and an independent Chairman. The Board's primary function is to ensure that Australian meat exports are marketed in a manner which will safeguard the long-term interests of the Australian meat industry.

The Board regulates overseas marketing of Australian meat by means of an export licensing system. It has power of control over the kinds of meat that may be exported by licensed exporters to particular places, or to particular agents and representatives. The Board also has power to undertake measures to promote the sale and consumption of meat both in Australia and overseas, and it may purchase and sell meat in its own right for the purpose of market development. However, the exercise of this power is limited to activities aimed at meeting special marketing problems or circumstances which preclude the effective participation of private traders. The Board may also purchase and sell meat, with the approval of the Minister for Primary Industry, for the purpose of administering any international arrangements to which Australia may be a party.

Meat research schemes

In November 1965 the Commonwealth Parliament passed legislation providing for the extension of the cattle and beef research scheme to cover beef, mutton and lamb research. Details of the beef research scheme were set out on page 1050, Year Book No. 51. Under the new legislation the Cattle and Beef Research Committee was re-constituted as the Australian Meat Research Committee, its powers and functions being similar to those of the former Committee extended to include mutton and lamb research. The Meat Research Committee consists of twelve members—seven meat producer representatives, the Chairman of the Australian Meat Board (Chairman), one representative from the universities engaged in meat research, the Commonwealth Scientific and Industrial Research Organization, the Australian Agricultural Council, and the Department of Primary Industry. The new Committee came into being in March 1966 and the Cattle and Beef Research Committee ceased to exist from that date.

The scheme is financed from the Livestock Slaughter Levy (see below). The Commonwealth Government makes a matching contribution on a \$1 for \$1 basis to meet expenditure on research. The research is conducted by such bodies as the universities, C.S.I.R.O., State Departments of Agriculture and the Bureau of Agricultural Economics.

The Minister for Primary Industry approved a beef research program of \$3,004,304, and a mutton and lamb research program of \$1,337,851 for 1974-75.

The Livestock Slaughter Levy

The Livestock Slaughter Levy Act 1964 imposed a levy on all cattle (over 90 kg dressed weight), sheep and lambs slaughtered within Australia for human consumption. These levies operated from 1 August 1964 and have replaced the charge imposed on meat exports and also subsumed the cattle levy for beef research purposes imposed in 1960 (see Year Book No. 51,) page 909. In November 1968 legislation was passed amending the Act to provide for an additional levy to finance service and investigation activities relating to meat processing. The present legislation (the Livestock Slaughter Levy Act 1964) now provides three elements in the levy for each class of livestock—an amount to finance meat research; an amount to finance the operations of the Australian Meat Board; and, an amount to finance service and investigation activities relating to meat processing. The first two elements are paid by producers while the third element is paid by meat processors.

Under the Act the total levy may not exceed 75.0c a head for cattle or 7.5c a head for sheep and lambs. The amount levied for research may not exceed 25.0c a head for cattle or 3.3c a head for sheep and lambs, while the amount for service and investigation activities relating to meat processing is set for the period of its operation at 1.0c a head for cattle and 0.1c a head for sheep and lambs. The present operative rate for cattle is 56.0c (25.0c for research; 30.0c to the Australian Meat Board; 1.0c for service and investigation) and for sheep and lambs, 4.85c (1.75c for research; 3.00c to the Australian Meat Board; 0.10c for service and investigation).

The Meat Export Charge

The Meat Export Charge Act 1973 imposes a charge on the exports of meat. A charge of 1.0 cents per lb is imposed on exports of meat and edible offals of cattle, sheep, lambs, goats and pigs and the revenue is to recoup to the Government the cost of export meat inspection. A further 0.6 cents per lb is imposed on beef and veal exports in order to recover to the Government the cost of the National Brucellosis and Tuberculosis Eradication Campaign.

United Kingdom long-term purchase arrangements

Details of the long-term meat contracts with the United Kingdom from 1939 to 1952 and of the Fifteen Year Meat Agreement (1952–1967) are given on page 710, Year Book No. 41 and in earlier issues. In September 1953 the trade in meat between the United Kingdom and Australia reverted to private traders. The main features of the arrangements were given in Year Book No. 47, page 960. Details of minimum prices operating and deficiency payments received in recent years under private trading appear in Year Book No. 48 (page 973) and No. 50 (page 1068).

On 30 September 1967 the Fifteen Year Meat Agreement expired, and no new agreement has been negotiated. Australia retained duty-free entry for meat until 1 July 1971 when a variable levy system for beef and veal imports and duties on mutton and lamb were introduced by the United Kingdom Government in preparation for entry into the European Economic Community (E.E.C.).

The United Kingdom became part of an enlarged E.E.C. in 1973 and will progressively adopt the mechanism of the E.E.C. Common Agricultural Policy (C.A.P.) over the period up to 1977. Under the C.A.P., beef and veal imports are mainly controlled by a system of variable levies. At present the C.A.P. does not apply to mutton and lamb but the United Kingdom will gradually increase its duties on mutton and lamb until the level of the full E.E.C. duty (20 per cent) is reached in 1977.

Lamb Guarantee Scheme

The Australian Meat Board, under the scheme, guaranteed exporters a minimum price on all lambs approximately 16 kg and under shipped to the United Kingdom. The scheme operated from 1962-63 lamb export season until it was discontinued by the Board in March 1972. Details of the scheme are shown in Year Book No. 58, page 811.

United States of America-Australia Meat Agreement

In February 1964 the Governments of Australia and the United States of America concluded an agreement for the regulation of beef, veal and mutton exports from Australia to the United States with the object of promoting the orderly development of the trade in these classes of meat between the two countries. (Details of the Agreement were given on page 820 of Year Book No. 56). In June 1970, the United States advised that it was terminating the Agreement at the end of 1970. Legislation

enacted by the United States Congress in 1964, details of which were given in previous issues of the Year Book, provides for restrictions on imports of fresh, chilled and frozen beef, yeal, mutton, and goatmeat from all sources if such imports are estimated by the United States Secretary of Agriculture to exceed a predetermined figure (the trigger point) calculated by a formula in the legislation. Should quotas be necessary the total permissible imports would be set some 10 per cent below the trigger point. Until 1968 the estimate of imports did not exceed the trigger point and quotas were not necessary. However, late in that year it appeared likely that quotas would be triggered and to avoid this all major suppliers agreed to restrain shipments. The total restraint level was set approximately halfway between the quota level and trigger point. A similar situation arose in 1969 and 1970 and restraints again operated. However in June 1970 the estimate of imports exceeded the trigger point and the United States President suspended the operation of quotas and announced new higher restraint levels for all major suppliers. In 1971 the United States President exercised, as in 1970, his powers under the legislation and announced that the operation of quotas would be suspended as suppliers had agreed to enter into a restraint agreement with the United States to keep the import level to 517,900 tons. In June 1972, the President announced that the restraint arrangements for 1972 had been suspended for the remainder of the year in an effort to control increases in meat prices in the United States. Restraints have been suspended since that time, but the situation is still subject to quarterly review.

Pig Industry research

A general description of research commenced in 1971 into the Australian pig industry appears in the section, The Pig Industry page 816.

POULTRY INDUSTRY

Stabilisation scheme for the egg industry

An Australia-wide stabilisation type of scheme for the egg industry has been in operation since 1 July 1965. The principal features of the scheme are embodied in three Acts—Poultry Industry Levy Act 1965, Poultry Industry Levy Collection Act 1965, and Poultry Industry Assistance Act 1965.

The scheme provides for the imposition of a levy on hens over six months of age kept for commercial purposes. The money obtained from the levy is mainly used to meet trading losses on surplus eggs. Previously, returns to producers were equalised by State Egg Boards, who imposed an equalisation deduction to cover deficits which resulted from sales to overseas markets.

In determining the rate of the hen levy, the Minister for Primary Industry is required to take into consideration any recommendations by the Council of Egg Marketing Authorities of Australia (which consists of all members of the State Egg Marketing Boards) and is precluded from prescribing a rate in excess of such recommendations. The maximum rate of levy permitted under the legislation is \$1 per hen per annum. The levy is payable fortnightly by the owner of the hen. The levy operated at its maximum from 1972–73. The fortnightly rate of levy in accordance with the recommendations of the Council of Egg Marketing Authorities of Australia was 4 cents from 1972–73. As the maximum of \$1 per hen was reached each year after twenty-five fortnights, no levy was imposed for the last prescribed days from 1972–73.

Exemptions from payment are granted on the first twenty hens in each flock and also on a substantial proportion of broiler breeder hens. The eggs produced by broiler breeder hens which are not used for hatching determine the proportion of those hens on which the levy becomes payable in accordance with a formula incorporated in the legislation.

By arrangement between the Commonwealth and State Governments, the State Egg Boards collect the levy due in each State from individual producers and remit the total amount to the Commonwealth Government (the Department of Primary Industry collects the levy in the Australian Capital Territory). The Commonwealth Government pays into the Poultry Industry Trust Fund amounts equal to the receipts obtained from the hen levy. These amounts totalled \$12,872,493 in 1974-75 (\$11,612,025 in 1973-74). Payments from the Fund made to the State Government for financial assistance to the poultry industry, and are authorised by the Minister for Primary Industry, after consideration has been given to the recommendations by the Council of Egg Marketing Authorities of Australia. Payments from the Trust Fund totalled \$12,734,437 in 1974-75 (\$11,532,302 in 1973-74).

Research

The Poultry Industry Assistance Act 1965 makes provision for expenditure for research purposes to be allocated from the Poultry Industry Trust Fund.

The Act also provides for a contribution limited to \$100,000 each year from the Commonwealth Government to support poultry research on dollar for dollar matching basis with industry funds, up to a total of \$200,000.

Research projects are recommended by the Council of Egg Marketing Authorities of Australia for approval by the Minister for Primary Industry. Expenditure may be approved for scientific, technical or economic research, the publication of reports thereon, the training of persons for research, and the dissemination of information and advice on scientific, technical or economic matters.

Chicken Meat Research

In June 1969, a research scheme for the chicken meat industry was established along lines similar to those operating for the wool, wheat, dairy, meat, tobacco and poultry industries. The operative Acts are the Chicken Meat Research Act, 1969, the Meat Chicken Levy Act, 1969 and the Meat Chicken Collection Act, 1969. This legislation provides for a levy of one-tenth of a cent on each meat chicken hatched before 1 July 1972 and, thereafter, for a levy at a prescribed rate not exceeding one-quarter of a cent per meat chicken hatched. Hatcheries, hatching less than 20,000 meat chickens per annum, are exempt from the levy. The legislation also provides that the industry levy be paid into a Trust Account and that research expenditure therefrom be matched on a \$1 for \$1 basis by the Commonwealth Government. On this basis, it is estimated that funds currently available for research will be \$374,022 for 1974–75.

Marketing of eggs

Details of the Egg Export Control Act 1947 were given in earlier issues of the Year Book (see No. 47, page 997).

DAIRY PRODUCTS

Dairy Industry Stabilisation Fund

Amounts realised on exports of butter and cheese were, in 1948-49 and 1949-50, in excess of the f.o.b. equivalent of the then guaranteed return and were credited to the Dairying Industry Stabilisation Fund, which was established in July 1948 for the purpose of stabilising returns from exports. During 1951-52 the Stabilisation Fund met the deficiency in respect of all exports which did not earn sufficient to meet the basic return to the factory. From 1 July 1952 to 30 June 1957 it was available to the industry to be used, in whatever manner it considered desirable, to make good any deficiency in respect of all exports other than the 20 per cent provided for under the Commonwealth Government's five-year stabilisation plan. The Act was amended in 1957 to enable the Australian Dairy Produce Board (since 1 July 1975 the Australian Dairy Corporation) to use the fund for such other purposes as are approved by the Minister for Primary Industry and this amendment was later extended by the Dairying Industry Act 1967 to the present time. The balance of accumulated funds in the Dairying Industry Stabilization Fund at 30 June 1975 totalled approximately \$6,019,000. The major portion of the fund represents capital and other investments in milk recombining plants now established by the Corporation in the Democratic Republic of Cambodia, Indonesia, the Philippines and Thailand. Approved expenditure in excess of \$200,000 in any year may be met from unmatched contributions and income from sales.

Processed milk products. As part of the sixth five-year Stabilisation Plan the Government provided, under the Processed Milk Products Bounty Act 1962, for the payment of a maximum amount of \$800,000 as a bounty on exports of processed milk products in each year. Details of earlier bounties are given in Year Book No. 58, page 818. In July 1973 it was decided to phase out the bounty on the exports of processed milk products over the two-year period ending 30 June 1975. Expenditure on the bounty in respect of exports in 1973-74 amounted to approximately \$535,000 and in 1974-75 to approximately \$520,000.

Whole milk. In addition to the bounties referred to below, the Commonwealth Government subsidised the production of whole milk consumed directly from 1943-44 to 1948-49. Details of the amounts distributed during each year will be found in Year Book No. 38, page 1031.

Commonwealth Government bounties and stabilisation plans

Butter and cheese. Under the provisions of the various Dairy Industry Assistance Acts, the first of which was passed in 1942, the Commonwealth Government provided bounties on milk supplied for the manufacture of butter and cheese. Bounties were paid on a seasonal basis prior to 1 April 1946, but subsequently paid on a flat rate basis. Bounties were distributed by the Commonwealth Dairy Produce Equalisation Committee Ltd through factories to milk and cream producers by payments on butter and cheese manufactured. Details of the three five-year stabilisation plans which operated up to 30 June 1962, will be found in Year Book No. 49, page 1084. Information regarding the plan which operated during the five years ended 30 June 1967 appears in Year Book No. 52, page 961 and details of the plan which concluded on 30 June 1972 are given in Year Book No. 58, page 818.

ASSISTANCE TO, AND REGULATION OF, AGRICULTURE LIVESTOCK AND LIVESTOCK PRODUCTS

The sixth five-year stabilisation plan, which came into operation on 1 July 1972, provided for the continuation of financial assistance on butter and cheese production and an export bounty on processed milk products. In July 1973 the Commonwealth Government decided to phase out financial assistance provided under the stabilisation plan over the two-year period ending 30 June 1975, and instead to place greater emphasis on adjustment assistance for the dairy industry. For details of the sixth and earlier stabilisation plans see Year Book No. 59, and earlier issues.

The bounty on butter and cheese for the 1974-75 season was \$9 million and that was the final payment of financial assistance geared directly to output.

Marginal Dairy Farms Reconstruction Scheme

The Marginal Dairy Farms Reconstruction Scheme was introduced in July 1970 to operate for a period of four years. It provided funds up to a maximum of \$25 million to State Governments to purchase marginal dairy farms from producers wishing to leave the industry. The land acquired was sold on favourable terms to neighbouring farmers so as to build up their holdings to an economic size. When the scheme expired in July 1974, 1,136 dairy farms had been offered to the States for acquisition; purchase and subsequent sale of 576 had been arranged; 348 applications had been rejected; and 205 applications had been withdrawn or had lapsed. The cost of purchase amounted to \$14.9 million. The scheme has now been replaced by the Dairy Adjustment Program.

Australian Dairy Adjustment Program

The Marginal Dairy Farm Reconstruction Scheme was broadened into an Australian Dairy Adjustment Program. Assistance available under the Program includes a comprehensive range of measures to enable non-viable dairy farmers to build-up their properties into sound economic units; and interest-free loans to help suppliers change over to refrigerated bulk milk delivery with concurrent assistance as necessary to dairy factories.

To 31 December 1975 assistance of \$28.8 million to the dairy industry had been approved under the Program. This comprised 2,491 loans amounting to \$14.6 million for farm conversion to refrigerated bulk milk; 263 cases involving property amalgamation amounting to \$8.5 million; 552 farm development loans amounting to \$3.4 million; 6 loans for diversification out of dairying; and 12 loans to dairy factories amounting to \$2.0 million for receival and processing facilities in connection with the receipt of whole milk.

Marketing of dairy products

The export trade is regulated by the terms of the Commonwealth Customs Act 1901 and the Australian Commerce (Trade Descriptions) Act 1905 and regulations thereunder. This legislation requires that the true trade descriptions, etc., be marked on all produce intended for export, while official inspection ensures the maintenance of purity and quality. Upon request of the exporter the goods are given a certificate by the inspector.

In 1975 the Commonwealth Parliament passed the *Dairy Produce Act* 1975 which substantially amended the *Dairy Produce Export Control Act* 1924. The provisions of the amended Act provided for replacement of the Australian Dairy Produce Board with the Australian Dairy Corporation from 1 July 1975.

The Corporation comprises eleven members consisting of an independent chairman, three members representing dairy farmers, three members representing manufacturers, two members with special qualifications, one representative of employees in the dairy industry and one government representative. Its composition was designed to achieve a balanced membership to enhance the Corporation's ability to perform its functions in a modern marketing environment.

The Corporation assumed the existing functions and powers of the Australian Dairy Produce Board. Full details of these functions and powers were given in earlier issues of the Year Book (see No. 48, pages 999-1000).

The Corporation was given additional powers to those exercised by the former Board in three main areas. Firstly it has the power, after consultation with appropriate industry bodies to determine the quantity of dairy produce which may be exported to the particular country or countries in the course of a season. Secondly, the Corporation may acquire a monopoly trading power for specific export markets by regulation after consultation with the industry. Thirdly the borrowing powers of the Corporation were broadened to allow it to provide advances, not only to cover dairy produce intended for export, but also to cover winter stocks of dairy produce subsequently withdrawn for the local market.

Equalisation schemes

Reference is made to the butter and cheese equalisation schemes in Year Book No. 48, pages 998-9. Particulars of the returns realised on local and overseas sales and of the average equalisation rate for the years ended June 1971 to 1976 are given on page 813 of this issue. Details are also given on page 812 of the wholesale prices of butter and cheese for home consumption.

An equalisation scheme for casein similar to that for butter and cheese has been operated since 1952 by the Commonwealth Dairy Produce Equalisation Committee Ltd. Average realisations per tonne under the scheme were \$570.60 in 1971–72, \$678.57 in 1972–73, and \$678.89 in 1973–74. The interim rates for 1974–75 and 1975–76 are \$970.00 per tonne and \$650.00 per tonne respectively. (Details of returns for earlier seasons are given in previous issues of the Year Book.)

From 1 July 1970 a skim milk powder equalisation scheme was commenced by the Commonwealth Dairy Produce Equalisation Committee Ltd. Rates for 1971–72, 1972–73 and 1973–74, were \$281.57 \$333.04 and \$394.20 per tonne respectively. Interim rates for 1974–75 and 1975–76 are \$500 per tonne and \$250 per tonne respectively.

Statutory support for the equalisation scheme was provided by legislation passed by Parliament during 1970 and ratified by producers at a referendum held in February 1971. The legislation consists of the *Dairying Industry Equalisation Act* 1970, the *Dairying Industry Levy Act* 1970, and the *Dairying Industry Levy Collection Act* 1970. (See Year Book No. 57, page 818.)

The basic element of the legislation is the establishment of a fund by way of a levy on the production of butter, butteroil, cheese, casein and such other dairy produce as may be prescribed to provide the necessary finance for equalisation payments. The legislation has been designed to permit the imposition of the levy on one product or a number of products as circumstances warrant. It will not be implemented unless there is a specific need created such as by the withdrawal of an important manufacturer from the present voluntary equalisation scheme.

Research and promotion of the dairying industry

Dairy industry research and sales promotion. At the request of the Australian Dairy Industry Council, legislation was enacted in 1958 to provide for a sales promotion campaign for butter and cheese in Australia and also for research into industry problems (funds for research being matched by Government contributions, see below). The legislation provided for levies on the manufacture of butter and cheese (the Dairy Produce Levy) which were initially set at operative rates of 0.104 cents per lb (0.229 cents per kilogram) for butter and 0.052 cents per lb (0.115 cents per kilogram) for cheese, the proceeds being divided equally between research and sales promotion. The operative rates of levy were increased from November 1959 to 0.156 cents per lb (0.344 cents per kilogram) for butter and 0.078 cents per lb (0.172 cents per kilogram) for cheese (the maximum amounts permitted under the legislation) with two-thirds of the funds raised being allocated to sales promotion and one-third to research. In August 1964, the legislation was amended to include butter powder at the same rate as for butter, i.e. 0.156 cents per lb (0.344 cents per kilogram).

In 1965, the Dairy Produce Levy Act was repealed and replaced by the Butter Fat Levy Act which provided for one levy on butterfat used in the manufacture of butter, cheese and related products. The maximum rate of levy was set at 60 cents per cwt (1.18 cents per kilogram) of butterfat, comprising 12 cents (0.24 cents per kilogram) for research, 24 cents (0.47 cents per kilogram) for sales and domestic promotion, and 24 cents (0.47 cents per kilogram) for administration and overseas promotion. The operative rates of levy for those three categories were initially 8 cents per cwt (0.16 cents per kilogram), 22 cents (0.43 cents per kilogram) and 20 cents (0.39 cents per kilogram) respectively, i.e. a total of 50 cents (0.98 cents per kilogram).

Following several minor increases, the operative levy rate reached 58 cents per cwt (1.14 cents per kilogram) of butterfat from 1 October 1971. Of this amount, 10 cents (0.20 cents per kilogram) was used for research, 24 cents (0.47 cents per kilogram) for promotion and 24 cents (0.47 cents per kilogram) for administration and overseas market development. Research levies have been collected under Dairying Research Acts (see below) since 1 July 1972 and the butterfat levy (maximum and operative) was reduced to 48 cents per cwt (0.94 per kilogram) of butterfat from that date. The sales promotion program has throughout been financed solely from the industry levy.

The table following shows the levies collected for research and sales promotion during the past five years.

ASSISTANCE TO, AND REGULATION OF, AGRICULTURE LIVESTOCK AND LIVESTOCK PRODUCTS

BUTTERFAT LEVY: AMOUNTS COLLECTED FOR RESEARCH AND SALES PROMOTION

(\$)

| | | - | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|-----------------|--------|------|---|---|-----------|-----------|---------|---------|---------|
| Research(a) . | | | | | 387,088 | 370,824 | (b) | (b) | (b) |
| Sales promotion | | • | • | • | 923,494 | 886,911 | 858,530 | 836,412 | 802,035 |
| Total colle | cted(a | ı) . | | • | 1,310,582 | 1,257,735 | 858,530 | 836,412 | 802,035 |

(a) Excludes amounts contributed by the Commonwealth Government. (b) Since I July 1972, research levies have been collected under Dairying Research Acts 1972 (see below).

From 1958 onwards, the Commonwealth Government has contributed one-half of the costs incurred on approved projects included in the program of research, with a maximum contribution of \$1 for \$1 against funds raised by way of levy and allocated to research. The Dairy Produce Research Committee administered the research scheme and made recommendations through the Australian Dairy Produce Board to the Minister for Primary Industry.

In February 1972, the Commonwealth Government agreed to industry proposals to broaden the scope of the research levy so that it would apply to all dairy farmers, irrespective of the end-use of the milk or cream produced. Later that year, to implement the new scheme, five Acts were passed: Dairying Research Act; Dairying Research Levy Act; Dairying Research Levy Collection Act; Dairy Produce Sales Promotion Act; Butter Fat Levy Act.

The research levies are payable either on a butterfat or volume basis, according to the normal method of payment to the producer by the dairy factory or authority. The maximum rates of these levies are 12 cents per cwt (0.24 cents per kilogram) of butterfat or 0.04 cents per gallon (8.8 cents per thousand litres) of milk. The operative rates are prescribed by regulation and since 1 July 1972 have been 10 cents per cwt (0.20 cents per kilogram) of butterfat and 0.033 cents per gallon (7.3 cents per thousand litres) of milk. The research scheme came into operation on 1 July 1972 and levies collected amounted to \$486,190 in 1972–73, \$534,769 in 1973–74 and \$481,798 in 1974–75.

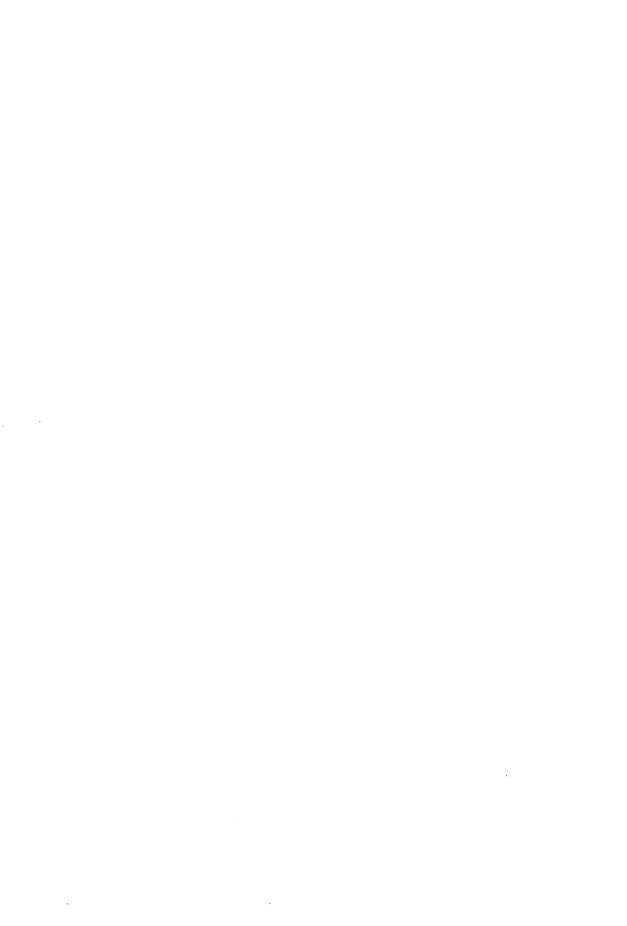
The 1972 legislation established a separate statutory body, the Dairying Research Committee, to control and administer the research funds. (The sales promotion program continues to be administered by the Australian Dairy Corporation.) The Chairman of the Corporation is also Chairman of the Dairying Research Committee.

Allocations from the Dairying Research Trust Account totalled \$844,794 in 1972-73, \$958,392 in 1973-74 and \$962,571 in 1974-75. The Commonwealth Government has continued to match research expenditure on a dollar for dollar basis.

THE BEE-FARMING INDUSTRY

Honey Levy

For details of the Honey Levies see under Bee-Farming, page 826.



CHAPTER 23

WATER RESOURCES

RESOURCES. UTILISATION AND NATIONAL AND INTERSTATE ASPECTS

Official Year Book No. 51, pages 228-31, contains a description of recent developments in the measurement of Australia's water resources. For information concerning general, descriptive and historical matter see also Year Book No. 37, pages 1096-1141.

An article on droughts in Australia appeared in Year Book No. 54, pages 991-6.

For further details on geographical and climatic features determining the Australian water pattern, see the chapter Climate and Physical Geography of Australia; on water supply and sewerage in metropolitan areas, cities and towns, the chapter Public Finance; and on the generation of hydroelectric power, the chapter Electric Power Generation and Distribution, of this issue.

A series of maps showing the location of major dams and reservoirs and the various irrigation schemes operating in each of the States may be found on pages 259-65 of Year Book No. 46, and a map showing the extent of known artesian basins throughout Australia is shown on page 273 of Year Book No. 48.

Water resources and their management

Geographic background

General. Water resources are determined by rainfall, evaporation and physical features including soil, vegetation and geology. Chapter 2, Climate and Physical Geography of Australia, contains a detailed description of the climatic features of the country and a brief description of the landforms. In assessing Australia's water resources, dependability and quality of supply must be considered, as well as amount.

Topography. The major topographical feature affecting the rainfall and drainage patterns in Australia is the absence of high mountain ranges over most of the continent. The Main Divide along the eastern coast is composed of sloping tablelands and uplands which generally do not exceed 1,200 metres in altitude, the highest point being Mount Kosciusko at only 2,228 metres. The western half of the continent is mainly a great plateau between 300 and 600 metres in altitude, while the interior consists of plains below 200 metres with a marked depression descending to 15 metres below sea level in Lake Eyre. It has been estimated that over half the country's area has a slope of less than one in one hundred.

Drainage. Only one-third of the Australian land mass has direct external drainage to the ocean. This occurs mainly in the east on the coastal side of the Main Divide and inland with the Murray-Darling system which benefits from the better-watered southern highlands. In the west, small watersheds are formed by the Darling Range and the Hamersley and Kimberley plateaux, while in the north the raised rim of the Georgina Basin separates the shorter rivers of the Gulf of Carpentaria coast from the interior drainage of the Barkly Tableland. With the exception of the Murray-Darling system, most rivers draining to the ocean are comparatively short because of the proximity of the highland areas to the coast and, for the same reason, these rivers account for the majority of the country's average annual discharge.

The remaining two-thirds of the country are interior lowlands which exhibit endoreic drainage patterns characteristic of a desert regime, i.e. disconnected ephemeral river systems and terminal salt lakes. In central Australia, each isolated upland has a radiating drainage system which dies out on the surrounding plains, while on the western plateaux, older stream systems have been disrupted by barriers of alluvium or aeolian sand. Surface drainage is totally absent from some arid areas of low relief and pervious cover such as the limestone Nullarbor Plain.

Climate. Australia has an area of almost 7.7 million square kilometres and a latitudinal range of about 3,700 kilometres, resulting in climatic conditions ranging from the alpine to the tropical. But two-thirds of this area is arid or semi-arid, a result of its location approximately between latitudes 10°S and 40°S, a zone which contains most of the great deserts of the world. Generally, the northern part of the continent comes under the influence of the Australian-Asian monsoon which results in a summer wet season and a winter dry season, while southern Australia is subject in winter to the rain-producing influences of the great atmospheric depressions of the Southern Ocean. Consequently good rainfalls (over 800 mm annually) occur in the northern monsoonal belt and along the eastern and southern coastal highland areas, which total only 12 per cent of the country's area, while nearly 30 per cent of the land mass receives less than 200 mm per annum.

The effectiveness of the rainfall over most of Australia is greatly reduced by marked alternation of wet and dry seasons, unreliability from year to year, high temperatures and high potential evaporation. Average annual tank evaporation rates increase generally from about 1,000 mm in the temperate south-eastern and south-western coastal areas of mainland Australia to over 3,300 mm in the arid centre; for further details see pages 54-55. In a twenty-year period, on the north-eastern coast, Mackay averaged 1,400 mm of rain per annum, but experienced one year of only 900 mm and another of 3,200 mm, a pattern of variability which is common throughout Australia; see also page 35.

Settlement. The availability of water resources controls, to a large degree, the possibility and density of settlement; and these in turn influence, through production and disposal of waste, the quality of the water. Most early settlements were established on the basis of reliable surface water supplies and, as a result, Australia's population is concentrated along the coast, mainly in the comparatively fertile, well-watered east, south-east and far south-west. As early as 1795, the effect of settlement on water quality was shown when an order was issued forbidding the pollution of the Tank Stream, the only water supply for the infant settlement at Sydney Cove. Fouling of the stream became worse as settlement increased until it was finally abandoned as a source of water in 1826. Today, the major water pollution problems in Australia are associated with the cities, irrigated agriculture and mining activities.

As settlement spread into the dry inland grazing country last century, the value of reliable supplies of underground water was realised and in 1857 the earliest known official investigation of groundwater resources was reported to the Victorian Legislative Assembly. Subsequently, observations of the disappearance of large quantities of the rainfall precipitated on the coastal ranges of eastern Australia led to the hypothesis of the existence of the Great Artesian Basin. Boreholes drilled from 1879 at Killara homestead in north-western New South Wales, at Anna Creek in South Australia and in Queensland at Thuralgoonie and Barcaldine, substantiated this theory. Since then, the waters of the basin have been a major asset to the pastoral industry. Supplies of groundwater have also been essential to the development of the mining industry in remote areas. At Tennant Creek in the Northern Territory, almost all water is drawn from unconsolidated sediments; the Pilbara iron mines in Western Australia depend heavily on water from the alluvium of the Fortescue, de Grey and Yule Rivers; and near Townsville in northern Queensland, groundwater is being used in the treatment of nickel ore from Greenvale. Many towns throughout Australia use groundwater for their domestic supply. One of the larger users is the Hunter District Water Board in New South Wales, which pumps approximately 9 x 106 cubic metres a year for general use from the Tomago coastal sands near Newcastle. Other towns using groundwater include Alice Springs in the Northern Territory, Naracoorte, Bordertown and Port Lincoln, South Australia, Geraldton, Bunbury, Carnarvon, Port Hedland and Albany in Western Australia. Despite improved conservation and management, full utilisation of surface water resources is within sight in many areas and, as population and standards of living increase, there will be continued pressure to further develop groundwater resources and to improve efficiency through conjunctive use of both ground and surface water resources.

Surface supplies

Distribution and volume. Permanent rivers and streams run in only a small part of the continent and only two-thirds of Australia is regarded as contributing to stream flow. There is practically no flow from the Western Plateau drainage division or from arid parts of other divisions. The total average annual discharge of Australian rivers has been assessed at 343×10^9 cubic metres. This figure comprises 158×10^9 cubic metres measured discharge and 185×10^9 cubic metres estimated

for areas where there are generally no gauging records, and is small in comparison with river flows on other continents. In addition, there is a pronounced concentration of runoff in the summer months in northern Australia, whereas the southern part of the continent has a distinct, if somewhat less marked, winter maximum.

Variability of flow. Seasonal conditions are such that large rivers in the north carrying in excess of 30,000 cubic metres per second in high flood may cease to flow altogether in the dry season. Highest recorded annual discharges in many rivers such as the Murray and Burdekin are as much as 300 times the lowest. Even in areas of high rainfall, large variability in flow means that, for local regional development, most streams must be regulated by surface storage. However, in many areas of Australia, evaporation is so great that storage costs are high in terms of yield. Extreme floods, which can be expected over much of Australia, also add greatly to the cost of water storages, since the provision of adequate spillway capacity to ensure safety of the dam is often a major cost item. In some cases, such as the Fitzroy River in north Queensland, flood discharge in one week can exceed the average annual discharge. Dam sites are seldom available to enable such large volumes to be stored, so that rarely can major floods be conserved or controlled to any degree.

Potential development. Over 80 per cent of all water used in Australia is surface water. This quantity is about 14 x 10° cubic metres a year and represents about 11 per cent of the possible usable surface water available in Australia, and does not include the quantity diverted for hydro-electric power generation and other purposes which do not affect the quantity of water available. However, there are many factors which limit potential development to a fairly small fraction of the total runoff, including the great variability of river discharge, high evaporation and lack of sites for storage on many catchments. In the more favourable and more intensively populated south-east, development of surface water in some areas has already reached about 60 per cent of the total resources, which is considered to be close to the feasible limit. On the other hand, there is considerable scope for greater efficiency in water use and, as the cost of obtaining additional supplies increases, it can be expected that more effective use will be made of existing diversions.

Major dams and reservoirs

A map entitled Australia—Dams and Storages, published in 1975 by the Department of Minerals and Energy (now the Department of National Resources), shows the location, height of dam wall, capacity and purpose of Australia's major dams and water storages.

The table below lists existing major dams and reservoirs (in descending order of size), together with those under construction and those projected, at June 1975. The list is confined to dams and reservoirs with a capacity of 100 mil. cubic metres or more.

MAJOR DAMS AND RESERVOIRS IN AUSTRALIA

Gross

capacity

Height

| Name and year of completion | Location | (mil. cubic metres)(a) | wall (metres) (b) | Remarks | | | | | | |
|--|---|------------------------------|-------------------------|---|--|--|--|--|--|--|
| EXISTING DAMS AND RESERVOIRS | | | | | | | | | | |
| Lakes Gordon and Pedder— (1974) | G 1 D: | | 110.6 | | | | | | | |
| Gordon . Scotts Peak Serpentine Edgar . | . Gordon River Huon River Serpentine River . South-west Tasmani | 11,671 2,960 | 140 43 38 17 | Storages for Gordon River hydro-electric power station | | | | | | |
| Ord (Lake Argyle) (1971) | . Ord River, near V Western Australia | Vyndham, 5,720" | 99 | For irrigation and flood mitigation (flood storage above spillway level 30,800 mil. cubic metres) and hydro-electric power generation at later stage. | | | | | | |
| Eucumbene . (1958) | . Eucumbene River, N Wales | lew South 4,807 | 116 | Part of Snowy Mountains Hydro-electric Scheme | | | | | | |
| Eildon (1927, raised 1955) | . Upper Goulburn R | iver, Vic- 3,392 | 79 | Storage for irrigation and hydro-electric power generation. | | | | | | |
| | . Murray River, near New South Wales | | 51 | Part of Murray River Scheme: storage for domestic, stock and irrigation. Hydro-electric power station. | | | | | | |
| Miena (1967) | . Great Lake, Tasmar | nia . 2,390 | 18 | Storage for Poatina hydro-electric power station. | | | | | | |
| Warragamba (Lake Burragorang) (1960) | Warragamba Rive South Wales | er, New 2,057 | 137 | For Sydney water supply. Hydro-electric power station. | | | | | | |
| Lake St Clair . (1938) | . Central Plateau, Tas | mania . (c)2,000 | 3 | Improved natural storage for eight Derwent river hydro-electric power stations. | | | | | | |

MAJOR DAMS AND RESERVOIRS IN AUSTRALIA—continued

| Name and year of completion | Location | capacity (mil. | Height of wall (metres) (b) | Remarks |
|---|---|-------------------|---|--|
| | EXISTING DAMS AN | ND RESE | RVOIRS | —continued |
| Menindee Lakes . (1960) | Darling River, near Menindee, New South Wales | 1,193 | 18 | Part of Darling River water conservatio Scheme. Provides additional storage fo |
| Burrendong | Macquarie River, near Wel- | 1,680 | 76 | use under the River Murray Agreement For conservation, flood mitigation, an |
| (1967) Blowering (1968) | lington, New South Wales Tumut River, New South Wales | 1,628 | 112 | rural water supplies. Regulates discharges from Snowy Mour tains Hydro-electric Scheme station for irrigation. Hydro-electric powe |
| Fairbairn | Nogoa River, Central Queens- | 1,440 | 49 | station. Storage for Emerald Irrigation Area. |
| (1972) Copeton | land Gwydir River, New South | 1,364 | 113 | Storage for irrigation. |
| (1976) Wyangala | Wales Lachlan River, New South | 1,218 | 85 | Storage for domestic, stock and irrigation |
| (1936, raised 1971) Burrinjuck | Wales Murrumbidgee River, New | 1,026 | 79 | purposes. Storage for irrigation. Hydro-electr |
| (1927, raised 1956) Falbingo | South Wales Tumut River, New South | 921 | 162 | power station. Part of Snowy Mountains Hydro-electric |
| (1971) Somerset (1959) | Wales Stanley River, Queensland. | 893 | 50 | Scheme. Brisbane-Ipswich water supply and floo mitigation. Hydro-electric power str |
| Lake Echo (1956) | Lake Echo, Tasmania | 725 | 19 | tion. Storage for Lake Echo, Tungatinal Liapootah, Wayatinah and Low Derwent hydro-electric power station |
| Jindabyne (1967) | Snowy River, New South | 688 | 72 | Part of Snowy Mountains Hydro-electr Scheme. |
| Lake Victoria (1928) | Murray River, near South Australian border in New South Wales | 680 | •• | Improved natural off-river storage; co serves supplies for South Australia. |
| Monduran , . (1975) | Kolan River, near Gin Gin, Queensland | 586 | 52 | Storage for irrigation. |
| Clark (Lake King William) (1949, raised 1966) | Derwent River, Tasmania . | 541 | 73 | Storage for Tarraleah, Liapootah, Way tinah and Lower Derwent hydrelectric power stations. |
| Arthurs Lake (1965) | Source of Lake River, near Great Lake, Tasmania | 511 | 17 | Part of Great Lake hydro-electric pow development. |
| Keepit (1960) | Namoi River, near Gunnedah, N.S.W. | 426 | 55 | For conservation and irrigation. Hydrelectric power station. |
| Ross River (1974) | Near Townsville, Queensland | 417 | 35 | Flood mitigation and water supply to Townsville (first stage completed 197 second stage under construction). |
| Waranga (1910) | Swamp, near Rushworth, Victoria | 411 | 12 | Off-river storage in Goulburn Valley for irrigation. |
| Tinaroo Falls (1958) | Barron River, North Queens- land | 407 | 47 | Storage for Mareeba-Dimbulah Irrig tion Area. Hydro-electricity generatio |
| Mokoan (1971) | Winton Swamp, near Benalla, Victoria | 365 | 10 | Storage for irrigation. |
| Glenbawn (1958) | Hunter River, near Scone, New South Wales | 362 | 78 | For conservation, irrigation and floomitigation. |
| Rocklands (1953) | Glenelg River, Victoria . | 336 | 28 | Part of Wimmera-Mallee domestic as stock water supply system. |
| Eppalock (1964) | Campaspe River, near Heath- cote, Victoria | 312 | 45 | For irrigation and to supplement supp to Bendigo. |
| Cardinia | Cardinia Creek, near Emerald, Victoria | 287 | 79 | Part of Melbourne water supply storage |
| Darwin River | Darwin River, Northern Ter- | 259 | 31 | Darwin water supply augmentation. |
| (1972) Tantangara | ritory Murrumbidgee River, New | 254 | 45 | Part of Snowy Mountains Hydro-electr |
| (1960) Devils Gate (Lake Barrington) (1969) | South Wales Forth River, near Devonport, Tasmania | 180 | 84 | Scheme. Mersey-Forth power development. |
| Avon (1927) | Avon River, New South Wales | 214 | 72 | Part of Sydney water supply storage. |
| South Dandalup River | Near Mandurah, Western | 208 | 41 | Storage for Perth water supply. |
| (1973) Upper Yarra | Australia Yarra River, Victoria | 207 | 89 | Part of Melbourne water supply storage |
| (1957) Wuruma | Nogo River, near Eidsvold, | 194 | 46 | Storage for irrigation. |
| (1968) Glenmaggie | Queensland Macalister River, Gippsland, | 190 | 37 | Storage for irrigation. |
| (1927, raised 1958) Wellington (1933, raised 1944 and | Victoria Collie River, Western Australia | 185 | 37 | For irrigation and domestic water supp |
| 1960) Koombooloomba . (1961) | Tully River, North Queens- | 180 | 52 | For hydro-electric and irrigation proposes. |

MAJOR DAMS AND RESERVOIRS IN AUSTRALIA-continued

| Name | Location | Gross capacity (mil. cubic metres)(a) | of wall (metres) | Remarks |
|-----------------------------------|---|---|------------------------|--|
| | EXISTING DAMS A | AND RESE | RVOIRS | S—continued |
| Serpentine | . Serpentine River, Western | 178 | 55 | For Perth water supply. |
| (1961) Lake Brewster . | Australia Lachlan River, near Hillston New South Wales | , 153 | | Storage of rural water supplies for lowe |
| (1951) Grahamstown . (1969) | . Grahamstown River, near Newcastle, New South Wales | | 12 | Lachlan Valley. Part of storage system for Newcastle and district water supply. |
| Cairn Curran . (1956) | . Loddon River, Victoria | . 149 | 44 | Storage for irrigation. |
| Liddell | . Gardiners Creek, Muswell brook, N.S.W. | - 148 | 43 | Cooling water for Liddell power station |
| (1968) Eungella | . Broken River, North Queens | - 131 | 49 | For cooling water and water supply a |
| (1968) Rowallan | . Mersey River, North Tas- | - 131 | 43 | Collinsville and irrigation. Mersey-Forth hydro-electric power |
| (1967) Yarrawonga Weir | mania . Murray River at Yarrawonga | , 117 | 22 | development. Diversion weir for irrigation. |
| (1939) Cethana | Victoria . Forth River, near Devonport | , 109 | 110 | Mersey-Forth power development. |
| (1971) Beardmore . (1972) | Tasmania Balonne River, near St George Queensland | , 101 | 15 | Storage for irrigation. |
| | DAMS AND RESERVO | DIRS UND | ER CO | NSTRUCTION |
| Cartmouth . | . Mitta Mitta River, Victoria | 4,000 | 180 | Additional regulation under River Murray Agreement, hydro-electric |
| Glenlyon | . Pike Creek, near Stanthorpe Oueensland | , 261 | 46 | power station. Storage of irrigation waters for Borde Rivers Scheme. |
| North Pine . | . North Pine River, near Petrie Queensland | , 205 | 44 | To supplement supply to north Brisban area. |
| Tallowa (Lake Yarrunga) | Shoalhaven River and Kan- garoo River Junction, New South Wales | | 43 | Sydney water supply and pumped storag power development. |
| Julius | . Leichhardt River, near Mount Isa, Queensland | t 123 | 35 | Water supply to Mount Isa mines, city and other mining development. |
| Googong | . Queanbeyan River, New South Wales | 119 | 59 | For Canberra water supply. |
| | DAMS AND RI | ESERVOIR | S PROJ | ECTED |
| Wivenhoe | . Brisbane River, near Fern- | - 1,150 | 58 | Water supply and flood mitigation for |
| Thomson | vale, Queensland Thomson River, near Erica | , 1,110 | 160 | Brisbane, hydro-electric. For Melbourne and Gippsland wate |
| Mackintosh . | Victoria Mackintosh River, Tullibar dine River, near Queens | 922 | 74 25 | supply and irrigation storage. Storage for Pieman hydro-electric powe development. |
| Pieman | town, Tasmania Pieman River, Tasmania | . 641 | 120 | Storage for Pieman hydroelectric powe |
| Split Rock . | . Manilla River in Namo | i 370 | . 64 | development. Storage for irrigation. |
| Windamere : | Valley, New South Wales Cudgegong River, near Mud | - 353 | 69 | Storage for irrigation. |
| Gunpowder . | gee, New South Wales Gunpowder Creek, near | г 141 | 44 | Mining water supply. |
| Spencer | Mount Isa, Queensland Denison Creek, near Nebo | , 127 | 24 | Mining water supply. |
| Bastyan (Lake Ro bery) | Queensland se- Pieman River, Tasmania . | . 124 | 75 | Storage for Pieman hydro-electric power development. |

⁽a) Includes 'dead water', i.e., water below the operational outlet of the reservoir. (b) As a general rule, the figures shown for height of wall (metres) refer to the vertical distance measured from the lowest point of the general foundations to the 'crest' of the dam, i.e., the level of the roadway or walkway on the dam. (c) Estimated.

Irrigation

For some brief remarks on the history of irrigation in Australia see issues of the Year Book prior to No. 39. An article on the conservation and use of water in Australia appeared in Year Book No. 37, page 1096 and subsequent developments have been covered in later numbers of the Year Book.

Water resources research

Comprehensive programs of research and investigation are being pursued by State water and agricultural authorities, the Commonwealth Scientific and Industrial Research Organization and the Australian Water Resources Council often in collaboration. Special attention is being given to the following: high water tables due to the application of water; surface accumulation of salt and other soil changes associated with irrigation; methods of applying water efficiently; soil treatments to improve the physical condition of irrigated heavy clay soils; the utilisation of irrigated pasture,

by stock; and growth problems affecting plants and trees and reduction of salinity in river systems. The Melbourne and Metropolitan Board of Works, Melbourne's metropolitan water sup ply authority, is carrying out experiments in eucalypt forest areas to determine the short and long term effects of forest utilisation on streamflow quantity and quality.

The Commonwealth Scientific and Industrial Research Organization conducts a number of research stations and laboratories at locations throughout Australia. The Division of Irrigation Research at Griffith (New South Wales) is investigating ways of limiting the degradation of land by irrigation, improving the quality and range of irrigated crops, and assessing the amount of water required by irrigated crops and the most economical means of applying it. The crops being studied include citrus, maize, safflower, sorghum, sunflower and vegetables. This Division is also studying the effect on water quality of its use for irrigation, especially in regard to contamination by herbicides and fertiliser runoff. The Division of Environmental Mechanics at Canberra (Australian Capital Territory) studies the physics of infiltration and redistribution of water in both swelling and non-swelling soils, evaporation from field crops and forests, water movement and water stress in plants, and industrial effluent treatment by sedimentation and filtration. The Division of Land Resources Management is looking at the effect of clearing on the salinity of water from catchments in the southwest of Western Australia. Much of the work of the Division of Horticultural Research at Merbein (Victoria) is concerned with the problems of perennial horticultural crops grown under irrigation. Among other projects salt resistant rootstocks for grapevines and citrus are being evaluated, and the effects of salinity on the photo-synthetic performance and water use efficiency of horticultural crops are under investigation. The Division of Tropical Agronomy conducts research on a number of irrigated crops including grain legumes, grain sorghum, rice, and irrigated pastures at the Kimberley Research Station (Western Australia). The Division of Applied Geomechanics is developing techniques for the analysis of embankments of large earth and rockfill dams in order to improve design methods, and is studying the design of underground water tunnels.

The Irrigation Research and Extension Committee plays an important part in the agricultural activity of the Murrumbidgee Irrigation areas and associated districts, and the Coleambally Irrigation Area. It is representative of the New South Wales Department of Agriculture, the Commonwealth Scientific and Industrial Research Organization, the Rural Bank of New South Wales, the Soil Conservation Service of New South Wales, the Water Resources Commission of New South Wales, the Rice Marketing Board of New South Wales, the Wine Grapes Marketing Board of New South Wales, co-operative and secondary industries, and farmers' organisations. Finance is provided by these authorities on an agreed basis. The objectives are: to enable the agricultural extension services to the farmers in the defined sub-region to be continued and developed; to provide a system for advising on local agricultural policy and organisation; to provide means for farmer opinion to have due weight in the consideration of regional agricultural administration and policy; to achieve a unified approach to sub-regional extension in all branches of agriculture; to advise on the research needs of the sub-region and to co-ordinate the agricultural research of the various rural institutions working therein; and to achieve close liaison between research and extension.

Two other organisations with similar objectives are the Victorian Irrigation Research and Promotion Organisation which operates from Shepparton, and the Murray Research and Extension Committee centred at Deniliquin.

Preservation of catchments

Since water conservation commences on the catchments it is becoming increasingly recognised that anything which interferes with catchment efficiency affects the quantity of water available for all purposes. Active steps are being taken to counteract soil erosion, to conserve soil generally, and to minimise the effects of floods, overstocking, bush fires, and the destruction of vegetative cover. All States and the Commonwealth Government have initiated forestry policies which provide for reafforestation and the preservation of catchments. In recent years efforts to counteract soil erosion have been intensified, and there is some evidence of a more unified approach to catchment, water, forestry, and land use factors, which are regarded as parts of a single problem. This is exemplified in the multi-objective approach to planning now being adopted by some Australian authorities.

Water quality

Although some Australian rivers are naturally saline, the quality of surface water is generally good. However, most types of water pollution experienced in advanced industrial countries also occur in Australia. The main problems relate to sewage, industrial effluents and increasing salinity caused by agricultural activities.

In some parts of Australia untreated or inadequately-treated sewage and trade effluents are discharged into inland and coastal streams used for town water supplies. Mining activities cause pollution by the discharge of ore-processing wastes or mine water into streams or by leaching from waste dumps as in the Molonglo River in New South Wales where zinc is leached from tailings and

slime dumps at Captains Flat. Remedial work at Captain's Flat is currently being undertaken to prevent further erosion and leaching of the waste dumps, and to minimise the flow of mine water discharging through springs into the Molonglo River.

Salinity affects two main areas of the country. In south-western Australia, clearing of the natural vegetation has been followed by a rise in watertable levels with consequent increase in discharge of groundwater to river flow. As the groundwater has a naturally high salt content, both the soil and surface water have been adversely affected. About four million hectares of land have been rendered sterile and difficult to till because of soil salinity, and the salt flow into surface storages for local urban water supplies is now a cause for concern.

In south-eastern Australia, salinity problems have caused concern over recent years in the Murray Valley where the salt content of the river is less than 30 milligrams per litre total dissolved solids in the upper reaches and increases progressively down-stream. At Waikerie in South Australia, it exceeded 600 milligrams per litre for much of the irrigation season during the 1967–68 drought. In the extensive irrigation areas of the middle reaches, continual additions to the groundwater from channel seepage and irrigation water cause the watertable to rise. As the sedimentary beds were laid down under a marine environment, the groundwater is saline and when drainage does return to the river, it carries large amounts of salt. It has been calculated that the Kerang area alone contributes, via Barr Creek, about 185,000 tonnes of salt per annum to the Murray, and all drainage in the upper sector of the river a total of 250,000 tonnes. An additional 500,000 tonnes of salt are estimated to enter the river annually as a result of groundwater inflow in the sector between the South Australian border and Morgan. Subsequent use of this water for irrigation has problems. Citrus growers in some areas have had to install under-tree sprinkler systems to prevent defoliation of trees caused by saline water from overhead sprinklers.

Groundwater supplies

Groundwater is more important than surface water in about 60 per cent of the country. Australia's estimated annual groundwater recharge is 72×10^9 cubic metres. Annual groundwater use is estimated at nearly 3×10^9 cubic metres or about 18 per cent of Australia's total water use.

An indication of the variability in quality and quantity of Australia's groundwater resources is given in the map sheets accompanying the Australian Water Resources Council's publication, Groundwater Resources of Australia (1975).

There are three main sources of groundwater.

(i) Shallow unconsolidated sediments which are found in the principal river and lake systems and as coastal dunes, deltas and narrow shoreline deposits. Since 1957 use has been made of the good-quality groundwater resources of the inland drainage systems of New South Wales, such as the alluvium of the Lachlan, Macquarie and Murrumbidgee Valleys. In central and western Australia good-quality water in unconsolidated sediment is rare because of lower rainfall and higher evaporation rates.

The coastal superficial reserves occur mainly in the better rainfall areas of the eastern part of the continent and of Tasmania and contain good-quality water. Since 1939 the Tomago Sands have been a source of water supply for Newcastle, approximately 9 million cubic metres a year being extracted since 1970—about 15 per cent of the total amount of water supplied by the Hunter District Water Board. In Queensland, the sugar industry has drawn on the extensive groundwater resources of the Burdekin Delta to such an extent, that it has become necessary to use surface water to recharge the aquifers artificially. In 1970, when 33,800 hectares of cane were under irrigation, with an estimated demand for 3,200 million cubic metres of water, some 350 million cubic metres of river water were pumped to artificially recharge.

(ii) Sedimentary basins which contain at least one major aquifer system. The Great Artesian Basin is the largest, occupying about 23 percent of the area of the continent and extending into South Australia, the Northern Territory, Queensland and New South Wales. In any one aquifer, the dissolved solids content of the waters is remarkably uniform. However, the high ratio of sodium to calcium and magnesium ions in water from the Great Artesian Basin can have an adverse effect on soil structure, rendering it impervious and making such groundwater unsuitable for irrigation purposes. Bores provide watering points for stock and domestic supplies over much of the basin and some 30,000 holes have been drilled, about 6,000 of which are still flowing. Between 1870 and 1970 the average annual bore discharge has been estimated at 600 million cubic metres of low salinity groundwater.

Marked reductions in flow prompted a series of interstate conferences on artesian water between 1912 and 1928. These stressed the need for controlled development and management of artesian water resources and resulted in the systematic collection and interpretation of data on Australian artesian basins. It is now considered that while many bores will ultimately cease to flow, others will assume a steady rate of flow, corresponding with the average recharge from rainfall absorbed by permeable

outcrops. Diminution in flows from artesian bores has emphasised the need to eliminate wastage as much as possible. Licences issued for the construction of new artesian bores prohibit the distribution of water through drains and channels as formerly, and the supplies must be confined to the borehead or piped to appropriate watering points.

Other sedimentary basins providing water for stock and domestic purposes are: the Murray Basin covering 320,000 square kilometres in south-eastern Australia; the Daly, Georgina and Wiso Basins in the Northern Territory and Queensland; and the sedimentary rocks of the Carpentaria Province. Smaller basins in Western Australia, notably the Perth Basin, provide important domestic supplies for the more heavily populated parts of the State. Many of the larger towns, including Albany, Bunbury and Geraldton, and some major industries, depend entirely upon groundwater for their supplies. In Perth eleven per cent of the water supplied by the Metropolitan Water Supply, Sewerage and Drainage Board comes from groundwater (160 million cubic metres a year) and this proportion is expected to increase to 30-40 percent in the next decade.

Urban supplies are also obtained from the Amadeus Basin for Alice Springs; from numerous small basins in South Australia for Adelaide and Port Lincoln; and from the Otway and Gippsland Basins in Victoria. Sandstones of the Sydney Basin contain useful aquifers, but most of these basin sediments have a low hydraulic conductivity and contain saline groundwater.

(iii) Fractured rocks which are an important source of water particularly in the highlands of the south-eastern mainland and in Tasmania, parts of South Australia, central Australia, shield areas of Western Australia and the Kimberley Block. These aquifers usually yield relatively small supplies and quality may change rapidly over short distances. Generally, groundwater quality is good in northern and eastern Australia but poor over much of South Australia, the southern portion of the Northern Territory and the south-western part of Western Australia, where the low rainfall and high evaporation, coupled with low permeability, account for the variability and poor quality of the groundwater.

The quality of groundwater varies considerably and sources are subject to pollution in much the same way as surface supplies. Locally, groundwater has also been polluted by poor drilling techniques which allow contamination of fresh or lower salinity waters by more highly saline waters, and also by the discharge of industrial wastes into underground drainage bores. The Port Phillip Basin has the problem of discharge of industrial and domestic waste underground, and in the Western Port Basin there has been control of groundwater withdrawal since 1968 to prevent overdraft and saltwater intrusion.

PRINCIPAL WATER-BEARING BASINS IN AUSTRALIA

| Name | State | Geological age of chief aquifers | Approxi- mate area | Depth to pressure water |
|---|---|--|--------------------------|-------------------------------|
| | | | square | |
| | | | kilometres | metres |
| Great Artesian | Queensland, New South Wales, South Australia and Northern Territory | Mesozoic | . 1,751,480 | Up to 2,130 |
| Canning | Western Australia | Mesozoic-Palaeozoic | . 388,500 | 30 to 550 |
| Murray | Victoria, New South Wales and South Aus- tralia | Miocene-Eocene . | . 320,000 | 30 to 400 |
| Georgina (including Barkly and Daly) | Northern Territory, Queensland | Cretaceous, Ordovician, Cambrian, and Uppe Proterozoic | 279,720 r | 45 to 305 |
| Eucla | Western Australia, South Australia | Pliocene-Miocene . | . 191,660 | 90 to 610 |
| Carnarvon | Western Australia | Cretaceous, Permian | . 116,550 | 60 to 1,220 |
| Perth | Western Australia | Recent, Jurassic | . 54,390 | 60 to 760 |
| Western District (Otway) | Victoria | Pleistocene-Upper Cretaceous | 33,670 | 30 to 1,370 |
| Basins of Ord-Victoria region | Northern Territory, Western Australia | Mainly Cambrian, and Permian | 31,080 | 60 to 305 |
| Pirie-Torrens | South Australia | Recent, Pleistocene | . 23,310 | Up to 180 |
| East Gippsland | Victoria | Pleistocene-Eocene | . 9,060 | 60 to 1,070 |
| Adelaide | South Australia | Recent, Oligocene . | . 2,850 | 60 to 180 |

Conjunctive use of surface and groundwaters

Although utilisation of water resources in most areas of Australia has in the past tended to concentrate on either ground or surface water sources it is becoming increasingly necessary to use all the water resources of a region in conjunction, even in some cases importing water from outside the region. This is known as conjunctive use. Such an approach generally makes more water available for use than would be the case with independent use of the various sources as best use is made of the benefits of each type of resource.

Most conjunctive use schemes or proposals involve ground and surface water with a surface storage constructed on the stream and in some cases provision for artificial recharge of aquifers located beneath or near the area of demand, although in many cases natural recharge facilities are adequate. A comparison of some of the advantages of ground and surface supply facilities is given below.

Surface Storage
small capacity
quick response
high capital cost
low operating cost
(gravity supply)
high evaporation losses

Groundwater Storage
large capacity
slow response
low capital cost
high operating cost
(requires pumping)
low evaporation losses.

It can be seen from this comparison that an ideal plan of utilisation of water resources in a new area consists of first developing groundwater resources due to their low capital cost (the cost of drilling and installing pumps as opposed to the cost of a major dam) and the later construction of a dam to increase the amount of water available for recharge of the groundwater storage and where appropriate for alternative supply by pumping from the river. Alternatively the surface storage can be utilised in periods when plenty of water is available and the groundwater supplies drawn on when the surface supply is unable to meet the demand. When water is again available (following say rainfall and recommencement or an increase in streamflow) use can then revert partly or wholly to the surface supply which the groundwater supply has recharged.

The advantages and disadvantages of each type of source of supply can be described in economic terms both for development and operation. Given a basic objective, such as minimum annual cost, analysis techniques exist to develop operating strategies that will achieve this objective in the best way, given the constraints that may apply such as minimum level of supply or of reliability.

The conjunctive use concept may be applied over a period of some years to allow the cost of development to match the amount of return from the development, or to allow smoothing out of long-term fluctuations in the weather pattern, or it may be applied over an annual timespan where strongly seasonal conditions make surface water available for only a few months of the year and reliable and adequate groundwater supplies are required for the remainder of the year. In Australia to date, the level of development of water resources has been such as not to require the development of a conjunctive use approach, but as the degree of overall development proceeds and as the value of water rises there is increasing pressure for greater amounts of water to be supplied at higher levels of reliability. In the Pilbara region of Western Australia design is proceeding on a major conjunctive use scheme to supply water to several mining towns to meet urban and industrial demands, both of which require a high level of reliability.

In this situation, with mean annual rainfall of 300 millimetres and annual potential reservoir evaporation of 3,000 millimetres, a real advantage in using groundwater supplies is that of avoiding a large surface reservoir in which high evaporation rates would lead to concentration of salts in the water to make it too brackish for use. A small dam will allow utilisation of surface water in periods when the river is flowing together with recharge of aquifers and utilisation of groundwater for the remainder of the time. In the Namoi Valley in New South Wales and the Callide Valley in Queensland, irrigation from groundwater sources is causing falls in the water table and investigations are being made into conjunctive operation of the ground and surface storages to enable the current development of these areas to meet current demands.

Often concomitant with conjunctive use is the development and operation of facilities for artificial recharge of the groundwater aquifers. In the Burdekin Delta in Queensland the first major artificial recharge scheme in Australia is operating and research and investigation is being conducted into problems relating to this scheme. In this particular situation the limiting factor presently is the rate of recharge and although strongly seasonal there is still adequate unregulated flow in the lower Burdekin River to meet the requirements of the recharge scheme.

Because of the requirement of extremely high reliability of supply of water for urban demands a number of Australian towns and cities are using or considering using ground and surface supplies in conjunction. At present the Western Australian town of Bunbury draws all its water from underground. With future growth of the town it is likely that its water demand will exceed the mean annual recharge of aquifers in its immediate vicinity. Although the nearby Preston River has a very seasonal flow, dropping to almost zero in summer, adequate supplies could be drawn from run-of-river during the winter months. This would leave demand on the aquifer only during summer, allowing recharge to take place over winter. Similar conditions exist in a number of other towns and cities in Australia.

Water management

Australia's water resources are managed by about 800 irrigation authorities, metropolitan water boards, local government councils and private individuals. State authorities dominate the assessment and control of water resources as, under the Commonwealth Constitution, primary responsibility for management of water rests with the individual State governments. The Commonwealth Government participates indirectly through financial assistance or directly in the co-ordination or operation of interstate projects through bodies such as the River Murray Commission and the Snowy Mountains Hydro-electric Authority.

The water field is an area of major public sector activity because the storage and distribution of water must take place on a large scale which usually involves costly projects. Investment in water, sewerage and irrigation facilities over the last ten years has tended to consume about 20 per cent of gross fixed capital expenditure by public authorities. Of this total expenditure, 10 per cent has been devoted to irrigation investment. In most cases major storages are intended to be multi-purpose although the pattern of river flow in Australia often makes it difficult to reconcile requirements for irrigation, hydro-electricity and flood mitigation. Increasing problems are being encountered in the provision of adequate supplies for the major cities, and moves for the development of additional catchments tend to conflict with rural requirements.

The proper management of water resources is essential to the maintenance of both quantity and quality of supplies and the ecological balance of the environment in general. Since water is an agent of erosion and deposition, the consequences of its misuse appear sooner than with non-dynamic resources, and with more urgent impact, as in erosion, flooding, siltation and pollution. Conversely, land management practices can interfere with catchment efficiency through overstocking, bushfires and the destruction of vegetation cover. All States and the Commonwealth Government have initiated forestry policies which reflect the strategic watershed location of the main Australian forest lands, upslope from urban centres and near areas of intensive agricultural land use.

In 1975, the Australian Water Resources Council adopted a statement of policy which sets out the basic principles and goals underlying the approach to the development and management of water resources in Australia. This policy states that the conservation and management of water resources must take place in the broad frame work not only of development and management of resources generally, but also of overall economic, environmental and social planning. A balanced approach to water resources management would include the following desirable goals:

- (a) the provision of water supplies, adequate in quantity and quality—
 - (i) to meet the needs of people throughout Australia:
 - (ii) to meet the needs of, or to stimulate primary and secondary industry in such a way as to be compatible with projected market outlooks for the commodities concerned, and compatible with the resources and characteristics of the region concerned;
- (b) the development and management of water resources so that where practicable and desirable, other purposes such as flood mitigation, power generation, recreation and wildlife conservation are achieved in parallel with the purposes referred to above;
- (c) the development of waste water treatment facilities in conjunction with water supply systems and the encouragement of recycling and re-use where appropriate;
- (d) the adoption of water pricing policies which enable water needs to be met at a fair and reasonable price, but which provide an incentive to all water users to avoid wasteful and environmentally harmful practices and which encourage the efficient allocation of resources;
- (e) the continued development of policies and practices, as far as possible consistent throughout Australia, aimed at achieving appropriate water quality objectives, and the highest practicable level of pollution abatement;
- (f) the adoption of the general principle that direct costs, or costs related to loss of amenity attributable to pollution, should be borne by the polluter. Although the immediate and full implementation of this principle may not be feasible, it is none-the-less a goal to be pursued;
- (g) the zoning of flood-prone land, with a view to its orderly management;

- (h) the maintenance of an adequate sample of undisturbed aquatic environments as reference areas and the preservation of appropriate wetlands for the benefit of native wildlife;
- (i) implementation of a program of public education aimed at ensuring a proper understanding
 of the factors affecting the development and use of water resources and a sense of responsibility in these matters;
- (j) the encouragement of an active interest and involvement of the community in the planning and management of water resources.

National and interstate aspects

In terms of the Commonwealth Constitution primary responsibility for control and conservation of water rests with the individual State governments. The Commonwealth Government is responsible for matters relating to water in its Territories. However, because political boundaries sometimes intersect river valleys and underground water basins, co-operation between governments has been necessary to develop resources in certain cases. Specific examples of Federal-State and interstate co-operation and approach are given in the following paragraphs.

Australian Water Resources Council

A widening awareness of the need for a co-ordinated Australian approach to water utilisation led to the formation in 1962 of the Australian Water Resources Council by joint action of the Commonwealth and State governments. The Council comprises the Commonwealth and State Ministers primarily responsibile for water resources, with the Commonwealth Minister for National Resources as Chairman, and is serviced by a Standing Committee consisting mainly of the heads of Departments responsible to these Ministers, and by three permanent technical committees with a number of supporting groups.

The primary objective of the council is the provision of a continuing comprehensive assessment of Australia's water resources, and the extension of measurement and research to provide a sound basis for the planning of future development. In terms of its objectives and functions, the council has dealt with a wide range of topics, making recommendations and stimulating action by appropriate bodies.

In recent years, the Council recognised that there was a need to provide a continuing inter-Government forum for discussion of views on water management matters as well as assessment, and in 1975 it agreed in principle to amend its objectives and functions to incorporate this role.

Following a recommendation by the council, the Commonwealth and State governments in 1964 adopted an accelerated program of surface and groundwater investigations to establish a comprehensive network of stream gauging stations and to improve knowledge of underground water resources. Besides implementing its own accelerated program in the Northern Territory, the Commonwealth Government has assisted State programs by making grants available over successive three-year periods. Nearly \$16 million has been allocated to the States to assist in implementing programs over the three year period 1973–1976.

Since 1968 the Australian Water Resources Council has administered a Water Research Fund for which the Commonwealth Government has provided a total of \$2.4 million. This research program is aimed at improving the efficiency of water management in Australia by complementing research already being undertaken by other agencies. Current research deals with such topics as: artificial recharge of groundwater, improvement of water sampling and analysis techniques, compilation of Australian water quality criteria and water use efficiency studies.

The Representative Basins Program, a joint Commonwealth-State government venture, was initiated in 1965 as a co-ordinated study of the hydrology of 93 catchments representative of the most typically-occurring complexes of climate, geology, landform, soils and vegetation in the Australian environment. Its aim is to collect and analyse data to improve our quantitative understanding of the water balance in Australian catchments with the following specific objectives:

- (a) national water resources assessment, by improved interpolation between gauged catchments in the Australian stream gauging network;
- (b) improved basis for design of engineering structures (dams and weirs, road and railway bridges and culverts) in ungauged catchments;
- (c) prediction of the hydrologic effects of changes in land use and management; and
- (d) provision of a bank of hydrological data which will be of fundamental importance to management, ecological and environmental studies.

In an attempt to collate available data on Australia's water resources, the following publications have been issued by the council.

A review of Australia's water resources (Stream flow and underground resources) 1963. A review of Australia's water resources (monthly rainfall and evaporation). (Bureau of Meteorology, 1969). Water Resources Newsletter (bi-monthly). Hydrological Series (listing results of Advisory Panel

enquiries). Technical Paper series (listing results of research projects). Inventory of water resources research in Australia (published annually). Stream gauging information catalogue. Groundwater resources of Australia. A review of Australia's Water Resources, 1975.

Murray River

The Murray River and its tributaries form the largest river system in Australia. The catchment is approximately 1,057,000 square kilometres, or one-seventh of the area of the Australian continent, comprising five-sixths of New South Wales, over one-half of Victoria, one-sixth of Queensland and approximately one-fourteenth of South Australia. The Murray proper is 2,530 kilometres long. Its main tributaries are the Darling (1,390 kilometres) and the Upper Darling (1,140 kilometres, see page 27), the Murrumbidgee (about 1,550 kilometres), and the Goulburn (about 550 kilometres). The average annual flow of each of the chief contributory streams is as follows: Upper Murray, including the Mitta Mitta and Kiewa Rivers, 4,710 mil. cubic metres; Darling River, 3,480 mil. cubic metres; Goulburn River (including Broken River), 3,180 mil. cubic metres; Murrumbidgee River, 2,530 mil. cubic metres; and Ovens River, 1,560 mil. cubic metres. Irrigated production in the Murray River Basin is mainly grapes for wine, dried fruits, fresh fruits, rice, vegetables, dairy produce, wool, and fat lambs.

River Murray Waters Agreement. For a brief summary of historical events leading up to the River Murray Agreement (1915) by the Governments of the Commonwealth, New South Wales, Victoria and South Australia see issues of the Year Book prior to No. 39. Under the Agreement construction works are carried out by the States (which are also responsible for maintenance) subject to the approval and direction of the River Murray Commission. The Agreement provides that the minimum quantity of water to be allowed to pass for supply to South Australia in each year shall be sufficient to maintain certain specified flows in the lower river varying from 58.0 mil. cubic metres a month in the winter months to 165 mil. cubic metres a month in the four summer months of maximum demand—the total amounting to 1,547 mil. cubic metres over twelve months. The flow at Albury is shared equally by New South Wales and Victoria, and each of these States has full control of its tributaries below Albury, subject in each case to the fulfilment of the South Australian allocation. For a brief outline of the operation of the Agreement prior to 1949 see Year Book No. 40, page 1065, and earlier issues.

At a conference of Ministers held in 1949 to consider the diversion of the Snowy River it was decided that, by diversion of streams in the Snowy Mountains area, an average of approximately 543 mil. cubic metres per annum would be added to the Murray River (see Snowy Mountains Hydroelectric Scheme, page 873) and that increased storage should be provided in order to give additional regulation of the Murray River itself as well as to provide for regulation of the diverted waters. Hydro-electric potentialities would also affect the size of the storage.

The River Murray Commission investigated the position and subsequently recommended to the contracting Governments that the River Murray Waters Agreement be amended to provide for enlargement of the Hume Reservoir by 617 mil. cubic metres to approximately 3,038 mil. cubic metres. A conference of Ministers in 1954 agreed to the enlargement, and it was also agreed that the Commission should be given power to construct regulators and to carry out such other work on the Murray River between Tocumwal and Echuca as it considered necessary to reduce the losses from the regulated flow in that stretch of the river. The amended Agreement was ratified in the Parliaments of the Commonwealth and the three States and was proclaimed on 7 April 1955. In view of the proposed diversions by the Snowy Mountains Authority to and from the Murray River, and for other reasons, amendments to those sections of the River Murray Waters Agreement dealing with the distribution of the waters of the Murray were considered desirable. Following ministerial conferences, amendments were ratified by the four Parliaments concerned, and came into force on 6 November 1958.

Further amendment of the Agreement to provide for the construction of a storage of approximately 6,250 mil. cubic metres capacity at Chowilla in South Australia was ratified by legislation in the Commonwealth and State Parliaments and came into force on 30 April 1964. However, in view of the greatly increased costs by the time the project came to tender in 1967 and other significant factors (including water quality in the Lower Murray) which had arisen in the interim, the River Murray Commission resolved that, pending further investigations, construction of Chowilla Dam should be deferred. Further investigations then followed, including a re-assessment of the likely yield from both Chowilla and alternative storages on the Upper Murray and Mitta Rivers. Following careful consideration of this re-assessment, the River Murray Commission in February 1969 agreed that a 4,000 mil. cubic metres storage at Dartmouth on the Mitta River provided the greatest overall benefits in terms of cost and yield and should be the next development of the resources of the River Murray. The question of sharing the benefits could not be resolved by the Commission and was therefore referred to the respective Governments. Subsequently, Ministers representing

the four Governments concerned met in March 1969 and agreed on conditions for the construction of the Dartmouth Project and for the sharing of the increased system yield between Victoria, New South Wales and South Australia. Among other things, the meeting of Ministers agreed to continue the Menindee Lakes Agreement in perpetuity.

The Commonwealth Government has offered to assist the three States with financing the project by way of a loan to the extent of 50 per cent of each State's contribution. At the same time it will make its own quarter contribution of the cost of the project.

The Acts ratifying the amendments to the River Murray Waters Agreement were proclaimed by the four contracting Governments on 30 March 1972, and work commenced on the construction of Darmouth Dam on 1 April 1972. By 30 June 1975, the Mitta Mitta River had been diverted around the dam site by a tunnel, and a contract had been let for the construction of the dam and spillway.

The first half of the 1974-75 year was characterised by wet conditions with heavy flooding of the main stream and the various tributaries, including the Ovens, Goulburn and Murrumbidgee. From November 1974, however, the weather conditions changed, and persistent dry weather led to high diversions for irrigation during the latter part of the season.

Salinity of River Murray waters, while satisfactory at upstream stations during the whole year, deteriorated with recession from the high flows and presented some problems in South Australia during February and March 1975. Following the drain-back of saline ground water, salinities in excess of 1,000 microsiemens per centimetre were recorded at Berri during the period from 12 February to 5 March 1975, and as a result, special arrangements were made to vary the South Australian entitlement during February and March so that additional flows to dilute the high salinities could be drawn from Lake Victoria. The arrangement envisaged a reduction in entitlement flows during the latter months of the year in order to compensate for the earlier over-draw. In the event, high flows from the Darling River eliminated any need for restriction in the South Australian entitlement.

At 1 July 1974, Hume Reservoir contained 72 per cent of its total capacity and, the combined active storage in Hume Reservoir, Menindee Lakes and Lake Victoria was 85 per cent of the total active storage available to the River Murray Commission. Menindee Lakes were full and Lake Victoria almost so. By 30 June 1975, Hume Reservoir contained 80 per cent of its total capacity, and the combined active storage was 90 per cent of the total active storage available to the Commission.

Of the total flow of the River Murray and its tributaries in the year 1974–75, 3,500 mil. cubic metres were diverted and impounded by the State of New South Wales and 2,530 mil. cubic metres by Victoria, while 396 mil. cubic metres were diverted by South Australia. During the year 2,810.0 mil. cubic metres were passed to South Australia. The total diversion for irrigation, town water and other purposes from the River Murray itself by New South Wales was 1,560 mil. cubic metres and by Victoria 1,540 mil. cubic metres.

River Murray Works. Dartmouth Dam when completed in 1977 will store 4,000 mil. cubic metres of water and will be the largest reservoir in the River Murray system. It will complement Hume Reservoir, situated just below the junction of the Murray and Mitta Rivers, which has a storage of 3,038.0 mil. cubic metres and forms a lake 20,190 hectares in area.

The Yarrawonga Diversion Weir, which was completed in 1939, raised the river level so that water could be diverted by gravitation into main channels constructed on either side of the river. Between the Yarrawonga Weir and the Murray mouth, thirteen weirs and locks have been built. Two flood diversion weirs have been constructed on the Murrumbidgee—one between Hay and the Lachlan junction and the other below the Lachlan junction.

The Mulwala Canal, supplied from the Yarrawonga Weir, has an off-take capacity of 85 cubic metres a second, serving 728,435 hectares of land in New South Wales. The Yarrawonga Channel, on the Victorian side, has an off-take capacity of 35 cubic metres a second, serving 121,406 hectares. Not all of this area is irrigated.

Menindee Lakes storage, situated on the Darling River some 480 kilometres upstream from its junction with the Murray River, has a total capacity of 1,794 mil. cubic metres and was constructed by the State of New South Wales. However under an agreement between the Commonwealth Government and the State Governments of New South Wales, Victoria and South Australia, storage in excess of certain New South Wales requirements is available for use under the River Murray Waters Agreement.

Adjoining the river in New South Wales, and 130 kilometres from the Murray-Darling junction, Lake Victoria storage, with a surface area of 11,198 hectares, was completed in 1928. The water released from Lake Victoria is used by the South Australian settlements. The inlet channel to Lake Victoria was enlarged in 1957 to permit greater diversion of periodical flood flows of short duration.

Five barrages across channels near the Murray River mouth connecting Lake Alexandrina with the sea were completed in 1940 to prevent ingress of salt water to Lakes Alexandrina and Albert and to the lower river, thereby increasing the productivity of adjacent lands. The structures maintain a sufficiently high level for 80 kilometres up river to permit watering by gravitation of a considerable area of reclaimed river flats. The total distance across the barrages and intervening islands is 24 kilometres.

In addition to the works carried out under the auspices of the Commission, the separate States have constructed thousands of kilometres of distribution channels and have provided a number of storages on the tributaries, thereby contributing materially to the large amount of irrigation development in the Murray Basin. The main storages are: New South Wales—Menindee Lakes Storage (Darling), Blowering (Tumut), Burrinjuck (Murrumbidgee), Copeton (Gwydir), Keepit (Namoi), Burrendong (Macquarie) and Wyangala (Lachlan); Victoria—Eildon (Goulburn), Waranga (Goulburn), Mokoan (Broken), Eppalock (Campaspe) and Cairn Curran (Loddon). Details of these, and other State works on Murray tributaries will be found in the sections dealing with State systems.

New South Wales-Queensland Border Rivers Agreement

The catchments for the border streams of New South Wales and Queensland (5,180 square kilometres) extend to the granite areas in the vicinity of Tenterfield (New South Wales) and Stanthorpe (Queensland), and elevation rises to 914 metres. Average rainfall is 762 millimetres. The catchments and the areas suitable for irrigation are approximately equal in each State. Climatic conditions are such that from April to October it is necessary to supplement rainfall by irrigation, to stabilise and increase production. The capacity of the area to grow lucerne and tobacco under irrigation has already been demonstrated. Other possible development of the area includes irrigation of cotton, root crops, cereals, and citrus fruit, and expansion of the fat stock industry.

The New South Wales-Queensland Border Rivers Agreement came into effect on 1 July 1947. The Agreement provided for the construction of certain works on those sections of the Severn, Dumaresq, Macintyre, and Barwon Rivers which constitute part of the boundary between New South Wales and Queensland, for the furtherance of water resources in those States.

The works to be constructed comprised a dam on the Dumaresq River at a site to be selected by the Border Rivers Commission to give a storage basin with a capacity as large as is reasonably practicable, and not less than six nor more than twelve weirs as may be found necessary to meet the requirements of irrigation along the rivers. Provision was also made for the construction of not more than four regulators in the effluents from the Border Rivers and for the taking over of the existing weirs on the Macintyre and Barwon Rivers at Goondiwindi and Mungindi respectively. The cost of these works and of administration are to be borne by the States in equal shares. The Agreement further provided that the water discharged from the Dumaresq storage, whether by regulated or unregulated flow, shall be available to the two States in equal shares.

After unfavourable foundation conditions were disclosed at several dam sites on the Dumaresq River, investigations were extended to tributary streams, and superficially suitable sites located on Pike Creek and the Mole River. A geophysical survey was made at each of these sites and preliminary comparative estimates were prepared to determine the relative economy of providing one large storage at Mingoola or two smaller storages on the tributaries. Following exploratory drilling of the tributary sites, a report dealing with alternative storage proposals and possible amendments to the existing Agreement was submitted to the participating States. Consequent upon these investigations an Amending Agreement was executed between the States of New South Wales and Queensland in November 1968, which included, *inter alia*, provision for the construction of storages on Pike Creek (Queensland) and the Mole River (New South Wales). The new agreement also provided for investigation and, subject to approval of the Governments, construction of further weirs on the Border Rivers, regulators on effluents of the Border Rivers, and works for the improvement of flow and of the distribution of flow in streams which intersect the New South Wales–Queensland border west of Mungindi.

Works completed under the original agreement include Bonshaw, Cunningham and Glenarbon Weirs on the Dumaresq River and a weir and regulator on the Barwon River at the off-take of the Boomi River.

Dam on Pike Creek. Early in 1972-73 the two States reached formal agreement that the dam (subsequently called Glenlyon Dam) be constructed to provide a gross storage capacity of 247 million cubic metres at an estimated cost of \$14,000,000. The dam will consist of an earth and rock-fill embankment 61 metres high and 449 metres long at crest level, containing approximately 1,450,000 cubic metres of fill. Some 734,000 cubic metres of material will be excavated in open cut in the right bank, which will be lined with 4,400 cubic metres of concrete to form the spillway. At 30 June 1975, preliminary work including foundation stripping, curtain grouting, cental concreting and the diversion channel, 3.7 metres in diameter and 255 metres long and concrete lined, were completed. The 27 metres high coffer dam which will subsequently become part of the main embankment, was completed,

and the base of the main embankment has been constructed to some 10 metres above bed level. The embankment was scheduled for completion by December 1975, and the associated concrete works by December 1976. Expenditure on the project to 30 June 1975 totalled \$8,437,536.

Improvement of distribution of flow—Rivers crossing the border. During 1971-72 the two States considered proposals for the better distribution of flows in the Balonne-Culgoa River System. The proposals provide for the construction of four regulating structures, one in each stream immediately downstream of the four main bifurcations, namely, the Culgoa/Balonne Minor, the Balonne Minor/Donnegri Creek, the Ballandool/Bokhara and the Bokhara/Birrie bifurcations. Each structure consists of a steel sheet pile cut-off protected by concrete rock-fill upstream and concrete slab and rock-filled sausages and mattresses downstream. The works, estimated to cost \$152,000, to be met equally by the two States were approved for construction in November 1972. All the works were completed by September 1974.

Snowy Mountains Hydro-electric Scheme

Following a comprehensive investigation into both the water and power potential of the Snowy River waters by a Technical Committee representative of the Commonwealth Government and the States of New South Wales and Victoria in 1947 and 1948, and the submission by the Committee of reports in 1948 and 1949, the Commonwealth Parliament passed the *Snowy Mountains Hydro-electric Power Act* 1949 setting up an Authority to implement the proposals agreed upon.

The basis of the proposals was to impound the Snowy River waters at high elevations and, by diverting them into tunnels passing under the Alps, to use their potential power for the generation of electricity and then to discharge them into the Murray and Murrumbidgee River systems for use in the irrigation areas.

The scheme involves two main diversions, that of the Eucumbene, a tributary of the Snowy, to the Upper Tumut River, and that of the main stream of the Snowy River at Island Bend and Jindabyne to the Swampy Plain River. In addition, works required to make use of the waters of the Upper Murrumbidgee, the Upper Tumut, the Upper Tooma and the Geehi Rivers for power generation also provide additional regulation of these streams, and this makes more water available for irrigation. Details of the two trans-mountain diversions and the associated power works together with details of progress and construction are given in Chapter 27, Electric Power Generation and Distribution.

The average total gain by diversion and regulation now that all storage works are completed is assessed at 1,382 million cubic metres per annum to the Murrumbidgee and 987 million cubic metres per annum to the Murray.

International aspects

International water organisations

Australia maintains contact with international bodies and United Nations agencies concerned with water resources and participates in their activities in various ways.

Organisation for Economic Co-operation and Development (OECD). Australian membership of the OECD since 1970 has involved participation in the work of the Water Management Group. The group is composed of senior government officials responsible in their own country for the management of water and is responsible to the Environment Committee. It has the role of investigating and rationalising problems which are the subject of international concern and developing stategies—economic, legal and technical—which might resolve them.

United Nations Educational, Scientific and Cultural Organization (UNESCO). The International Hydrological Decade (IHD) (1965–1974) was a period in which participating countries, including Australia, implemented an international program designed to advance the science and practice of hydrology. More research and improvement of basic data acquisition has been encouraged as well as education and training, exchange of information and regional and global co-operation. The Australian UNESCO Committee for the International Hydrological Decade collaborated with Commonwealth and State Government agencies, universities and other institutions concerned with hydrology on activities relevant to the IHD program. An international program in hydrology (IHP) has been commenced following the conclusion of the IHD. An Australian UNESCO Committee for the IHP (AUCIHP) has been formed to co-ordinate Australian input to the IHP.

World Meteorological Organization (WMO). Information on hydrology and meteorology is vital for water resources activities. WMO which has, inter alia, a Commission on Hydrology has recently strengthened its role in operational hydrology and its contact association with hydrological services. There is an advisory Committee on Operational Hydrology on which Australia is represented on behalf of the WMO Regional Association V. WMO has made a notable contribution to the IHD

program with its published reports on about twenty WMO/IHD projects and will participate in the IHP. The Director of Meteorology is the permanent Australian representative on the WMO which meets every four years in congress. In Australia, hydrological activities and meteorological activities relative to water resources are co-ordinated by the Australian Water Resources Council, and the Secretary of the AWRC is the nominated hydrological advisor to the permanent representative.

Economic and Social Commission for Asia and the Pacific (ESCAP). ESCAP is one of several regional economic commissions set up by the United Nations under the Economic and Social Council. The Commission, through its Committee on Natural Resources, reviews and reports to the commission on a program of activities, largely of a technical nature but also including water policy issues. The program of activities is broadly concerned with the planning, management and development of water resources, including water resources planning of international rivers (e.g. the Mekong), measures for the mitigation of flood damage (so severe in this region) and the application of science and technology to the water field. By participation in this conference and in seminars arranged on selected topics, Australia contributes to, and benefits from, identification of the main problems of water resources management in a densely populated, developing region. A quarterly periodical, the Water Resources Journal, and a Water Resources Series publish the proceedings of conferences and seminars.

United Nations Environment Program (UNEP). A number of the recommendations of the UN Conference on the Human Environment held in Stockholm, June 1972 which forms part of the UNEP, relate to water (namely 51–55, 63 and 68). These involve Australian participation in a world registry of major rivers covering discharge and pollutants and of clean rivers so defined and in the development of methodology for analysis and planning of water resources management.

International Commission on Irrigation and Drainage (ICID). This commission was set up in India in 1950 so that the technical experience of all countries might be pooled for the benefit of all, and to promote the development and application of the science and technique of irrigation, drainage and flood control in their engineering, economic and social aspects. The commission consists of a National Committee from each participating country, and over sixty countries have so far been admitted to membership. Australia has been a member of ICID since 1952, and the National Committee consists of representatives of government departments, statutory authorities, firms and individuals actively interested in irrigation and drainage. Congresses of all member countries are held every three years. Publications include a bi-annual bulletin containing technical articles and discussion in the fields of irrigation and drainage.

United Nations World Water Conference. The Economic and Social Council (ECOSOC) of the United Nations is arranging a Water Conference under United Nations auspices, to be held in Argentina in March 1977. The conference is addressed to policy-making. It will consider how the global fixed stock of water can be best managed to satisfy the world's mounting requirements for water for domestic, agricultural and industrial use. Its primary objective is to promote the levels of preparedness needed locally, regionally, nationally and internationally if a water crisis is to be avoided in the next few decades.

Each country has been requested to form a national committee to co-ordinate input and assist in a report on its water resources and their management. In Australia the AWRC and AUCIHP together are functioning as a national committee and Australia will be participating fully in all aspects at the Conference.

STATES AND TERRITORIES

The foregoing text deals with water conservation and irrigation in Australia generally and with international, national and interstate aspects. The following survey covers the local pattern of water resources and the steps taken by the State Governments to bring about their development. In the various States, water policies tend to assume a distinctive and characteristic pattern closely allied with climatic conditions and specific local needs.

In Victoria almost every form of water scheme is in operation. In New South Wales major emphasis at present is on irrigation and stock development in the dry areas along the Murray and Murrumbidgee Rivers, though a substantial scheme of intensive irrigation is being conducted in the Murrumbidgee Irrigation Area. In Queensland, up to the present, the predominant emphasis has fallen on water (mainly underground sources) for stock, and the development of small irrigation schemes in sub-humid and humid areas, principally to stabilise production of such crops as tobacco, sugar, cotton and pastures. Apart from regular irrigation practices along the Murray River, South Australian authorities are vitally concerned with reticulated supplies for rural areas and towns. Western Australia has developed unique rock catchments and piped supplies for agricultural areas and towns in dry districts. Tasmanian interest relates almost exclusively to hydro-electric generation. The Northern Territory is concerned primarily with water supplies for population centres and mining and pastoral industries.

New South Wales

Administration

The Water Resources Commission of New South Wales (formerly the Water Conservation and Irrigation Commission) consists of three commissioners appointed by the Governor. The operations of the Commission cover water conservation, control of irrigation areas, the establishment, operation and maintenance of works for domestic and stock water supply, irrigation districts, flood control districts, sub-soil drainage districts, constitution of water trusts, the issue of licences for private irrigation, artesian and shallow boring, assistance under the provisions of the farm water supplies scheme, and river improvement works.

Under the Water Act, 1912–1955 the right to the use and flow, and the control of water in all rivers and lakes which flow through, or past, or are situated within, the land of two or more occupiers, is vested in the Commission for the benefit of the Crown. A system of licences operates for the protection of private works of water conservation, irrigation, water supply, drainage and prevention of inundation.

For particulars of the New South Wales-Queensland Border Rivers Agreement ratified by Acts of both States in 1947, see page 872 of this chapter.

Schemes summarised

The bulk of irrigated land is along the Murray and its tributary the Murrumbidgee. Smaller areas are served by the Wyangala Dam, Lake Cargelligo and Lake Brewster on the Lachlan (a tributary of the Murrumbidgee), by Glenbawn Dam on the Hunter River, by Keepit Dam on the Namoi River, by Burrendong Dam on the Macquarie River, by the Menindee Lakes Storage on the Darling River and by Copeton Dam on the Gwydir River. None of the other rivers is regulated by large head storages, though weirs and dams have been provided for town supplies, etc. in many places. In addition, substantial use is made of artesian and sub-artesian water in pastoral areas.

New South Wales legislation provides for the constitution and control of various schemes having different characteristics and including irrigation areas, irrigation districts, water trust districts, flood control and irrigation districts, and river improvement districts. There are nine irrigation areas, although two of these, Yanco and Mirrool, are generally described under the one heading, namely, the Murrumbidgee Irrigation Area. The Areas are: The Murrumbidgee Irrigation Area, consisting of 182,620 hectares served with water through a channel system stemming from the river at Berembed Weir; the Coomealla Irrigation Area of 14,013 hectares, served by pumping from the Murray; the Curlwaa Irrigation Area of 4,204 hectares, supplied from the Murray by pumping; the Hay Irrigation Area of 2,772 hectares, supplied with water pumped from the Murrumbidgee; the Tullakool Irrigation Area of 7,287 hectares, supplied from the Edward River by diversion at Stevens Weir; the Buronga (3,537 hectares) and Mallee Cliffs (769 hectares) Irrigation Areas, served by pumping from the Murray; and the Coleambally Irrigation Area (94,954 hectares), served by diversion from the Murrumbidgee River. All these Areas are administered by the Commission.

The capacities of the main storages for irrigation in New South Wales (in million cubic metres) are:

Darling—Menindee Lakes Storages (1,793); Severn-Pindari Dam (37.5);

Murray—Half share of Hume Reservior, weirs and locks to Wentworth (1,667); Paterson-Lostock Dam (20.2); Edwards River, Stevens Weir (8.8);

Tumut (tributary of Murrumbidgee)—Blowering Dam (1,628);

Macquarie—Burrendong Dam (1,189.0 irrigation storage; 489.0 flood mitigation storage);

Murrumbidgee—Burrinjuck Dam (1,036); Redbank Weir (9.1); Maude Weir (8.3);

Namoi—Keepit Dam (426.0);

Lachlan-Wyangala Dam (1,218); Lake Brewster (152.8); Lake Cargelligo (35.9);

Hunter-Glenbawn Dam (228.6 irrigation storage; 133.1 flood mitigation storage);

Belubula (tributary of Lachlan River)—Carcoar Dam (36.1);

Gwydir—Copeton Dam (1,364.0).

The total length of supply channels, drains, escape channels and pipe lines constructed by the Water Resources Commission in New South Wales is 8,490 kilometres. This comprises 5,772 kilometres of supply channels (including main canals), 2,607 kilometres of drains and escape channels, and 111 kilometres of pipe lines.

Irrigated culture

The following table shows details of the area of crops and pasture and the methods employed on land under irrigated culture during the 1974-75 season.

AREA OF LAND UNDER IRRIGATED CULTURE: NEW SOUTH WALES, 1974-75 (Hectares)

| | Method of irrigation | | | | | | | | |
|--------------------------|----------------------|--------|----------------|---------|---------------------|---------------|--|--|--|
| Сгор | Spray | Furrow | Flood | Trickle | Multiple Methods | Total Area | | | |
| Sown and native | | | | | | | | | |
| pastures | 40,942 | 3,757 | 237,387 | | 2,311 | 284,397 | | | |
| Lucerne | 26,835 | 439 | 17,665 | | 624 | 45,563 | | | |
| Cereals for all purposes | 15,959 | 17,033 | 106,827 | | 782 | 140,601 | | | |
| Cotton | | 24,165 | 4.721 | | | 28,886 | | | |
| Sunflower | 561 | 871 | 3,364 | | 92 | 4,888 | | | |
| Tobacco | 808 | 162 | [*] 8 | | | 978 | | | |
| Linseed | 121 | 526 | 166 | | | 813 | | | |
| Safflower | 9 | 35 | 40 | | | 84 | | | |
| Vegetables for human | | | | | | | | | |
| consumption | 11,575 | 2,139 | 491 | 81 | 205 | 14,491 | | | |
| Fruit | 6,667 | 5,533 | 602 | 575 | 305 | 13,682 | | | |
| Grapevines | 1,168 | 6,114 | 636 | 1,382 | 101 | 9,401 | | | |
| All other crops | 2,153 | 6,863 | 2,074 | 12 | 113 | 11,215 | | | |
| Total | 106,798 | 67,637 | 373,981 | 2,050 | 4,533 | 554,999 | | | |

Irrigation areas

Murrumbidgee. This area, which consists of Yanco and Mirrool Irrigation Area, together with adjacent lands supplied under agreement, received 488.9 mil. cubic metres, nearly 14 per cent of the total water (4,068.0 mil. cubic metres) used within the State for stock, domestic and irrigation purposes. The area is served by the Burrinjuck Dam on the Murrumbidgee River and Blowering Dam on the Tumut River, which joins the Murrumbidgee River near Gundagai. The catchment of the Burrinjuck Dam is about 12,950 square kilometres and water storage in Blowering Dam is from the natural flow of the Tumut River and water released into that river from the Snowy-Tumut Development Section of the Snowy Mountains Hydro-electric Scheme. This includes water from the Eucumbene, Upper Murrumbidgee, Tooma and Upper Tumut Rivers. The dams also provide town supplies for Gundagai, Wagga, Narrandera, Hay, Balranald, and for towns served by the South-West Tablelands scheme.

Domestic and stock water and water for irrigation are supplied to the Irrigation Districts of Tabbita, Benerembah and Wah Wah, and the Flood Control and Irrigation District of Lowbidgee. Flood flows are relied on to serve the Lowbidgee district, and water is not released from the dams for that purpose. For other areas and districts, however, water is stored during the winter, fed by melting snows and spring freshets, and is released during the September-May irrigation season. To supply the Yanco and Mirrool Areas, water is diverted by Berembed Weir into the main canal which has an off-take capacity of 45 cubic metres a second. The main canal has been completed to beyond Griffith, a distance of approximately 154 kilometres. These areas are served by approximately 1,283 kilometres of supply channels and pipes and 1,416 kilometres of drainage channels. In addition, approximately 715 kilometres of supply channel run through the Tabbita, Benerembah and Wah Wah Districts which are adjacent to the Areas.

The Water Resources Commission controls land transactions and water supplies for the Murrumbidgee Irrigation Areas only, and has no jurisdiction over land transactions in the adjacent irrigation districts, although it is responsible for the operation and maintenance of the water supply in these areas. Other local government services, including electricity and town water supply, are provided by Councils. Land is disposed of by the Commission by purchase or under perpetual lease tenure or leased for short terms for grazing or cultivation. The area under occupation at 30 June 1976 was 176,524 hectares including 12,073 hectares held for short lease grazing, agriculture, etc.

The land on which the Murrumbidgee Irrigation Areas and associated districts are situated originally comprised large sheep stations and was sparsely populated, but at 30 June 1974 its population was approximately 30,780, that of Leeton Shire being 11,510 and that of Wade Shire 19,270. The principal products of the Murrumbidgee Irrigation Areas are wool, livestock for

slaughtering, rice, citrus fruits, peaches and nectarines, grapes, tomatoes, peas, beans, and root vegetables. Rice growing was initiated in the M.I.A. in 1924 and has since become the most important crop. In a normal season, the water supplied for rice represents about half the total delivered to the Area.

Other Irrigation Areas. The Coomealla, Tullakool, Buronga, Mallee Cliffs, Hay, Curlwaa, and Coleambally Irrigation Areas follow the same administrative pattern as the Murrumbidgee Area—that is, land transactions are administered by the Water Resources Commission which is responsible also for the operation and maintenance of works to supply water.

Irrigation districts

These districts are set up under the Water Act, 1912–1955 for (a) domestic and stock water supply and (b) irrigation. The essential difference between an 'Area' and a 'District' is that in the case of the former, all the land to be included in the area is acquired by the Crown and then subdivided into such number of separate holdings as may be determined. Within the District, however, existing ownership of land is not disturbed other than to acquire land required for water distribution works.

Since the completion of the Hume Reservoir, several such districts have been established along the Murray to utilise the New South Wales share of the storage. Water is not available for the whole of the 2,023,430 hectares adjacent to the Murray in New South Wales, and therefore the schemes are based on 'extensive' irrigation, that is, water rights are allotted to holdings on the basis that only a portion of each holding (one hectare in three, five or ten, according to the district, etc.)will be irrigated but additional water, when available, may be obtained by landholders. 'Water right' means right to such a quantity annually of water, 100mm deep, as will cover an area of 1 hectare.

Water to serve Berriquin, Deniboota and Denimein Districts is diverted from the Murray River at Yarrawonga into the Mulwala Canal. Water for the Wakool Irrigation District and the Tullakool Irrigation Area is diverted from the Edward River at Stevens Weir, and a supplementary supply is also obtainable from Mulwala Canal. The total length of completed canals and channels in Berriquin District is 1,682 kilometres, comprising Mulwala Canal 121 kilometres, Berrigan Channel 35 kilometres, subsidiary channels 1,326 kilometres, escape channels 183 kilometres, and cross drainage channels 16 kilometres. Off-take capacity of the Mulwala Canal is 6.2 mil. cubic metres a day. Wakool, with 692 kilometres of channels, contains 328 holdings, and the area developed by irrigation includes about one hectare in six of the total area. Sheep raising and rice growing are the main industries. Considerable subdivision has occurred within the Berriquin District, and the proportion of the total area developed for irrigation is higher than in the case of Wakool. Sheep (including fat lambs), dairying, wheat, and rice growing are the main industries.

Water Trust Districts, Irrigation Trusts and Flood Control and Irrigation Districts

The Irrigation Act, 1912–1966 provides for the constitution of Trust Districts for domestic and stock water and irrigation, and empowers the Commission to construct, acquire or utilise necessary works. When the works are completed, they are handed over to trustees to administer. The trustees are elected by the occupiers of the land and act with a representative of the Commission. They are empowered to levy and collect rates covering the cost of the works repayable to the Crown by instalments and also the cost of operation and maintenance of the works. The rates are struck according to the area of land which benefits. The following are the water trusts, other than irrigation, as at present constituted (the area in hectares of each district being shown in parenthesis): *Murray River*—Little Merran Creek (63,714), Bullatale Creek (27,648), Poon Boon (13,881), Minnie Bend Flood Prevention (886); *Murrumbidgee River*—Yanco, Colombo and Billabong Creeks (407,834); *Lachlan River*—Marrowie Creek (118,427), Torriganny, Muggabah and Merrimajeel Creeks (68,894), Micabil Weir (4,654), Condobolin West Weir (1,813); *Miscellaneous*—Great Anabranch of Darling River (388,168), Nidgery Weir (18,972), Algudgerie Creek (3,758), and Boomi River (105,230)—making in all a total area of 1,223,879 hectares. Twelve of these trusts have been formed for the provision of water for domestic and stock purposes and one for flood prevention.

Irrigation Trusts are established under the same Act and are administered by trustees in a similar way. There are seven of these trusts.

The Lowbidgee Provisional Flood Control and Irrigation District, the first of its kind, was constituted in 1945. Its purpose is to provide flood irrigation for pasture lands on the lower Murrumbidgee by water diverted from the Maude and Redbank Weirs. Another district, Medgun, near Moree in the north-west, is also in operation.

River, lake and farm water supplies

During recent years the number of licences and permits issued to individuals to draw water from rivers and lakes for irrigation has increased substantially, especially along the coastal streams in sub-humid districts where the value of supplementary irrigation is becoming more recognised as a means of stabilising production in dry months. There has also been a considerable increase along the Murrumbidgee, Lachlan, Namoi, and Macquarie Rivers.

Under the Farm Water Supplies Act, 1946, technical advice and assistance, and also financial assistance, are made available to help individual farmers and groups of farmers to provide and improve water supplies for domestic, stock and irrigation purposes by means of wells, bores, excavated tanks, weirs or dams, and flood and spray irrigation systems.

Underground water

For information on underground water resources in New South Wales see Year Book No. 55 and earlier issues.

Future program

The program of development in hand includes the provision of additional dams, storages, weirs, flood mitigation and drainage schemes and stream clearing works. Copeton Dam on the Gwydir River was completed in 1976 and Brogo Dam on the Brogo River, Chaffey Dam on the Peel River, Windamere Dam on the Cudgegong River, Cudal Dam on Boree Creek and Split Rock Dam on the Manilla River have either been commenced or authorised for early construction. An ongoing program of investigations is being carried out to identify desirable additional projects which should be considered for implementation as funds become available. Increasing attention is being given to efficiency of water use and economic, social and environmental factors in water management policies.

Victoria

Administration

Victorian Governments have been active in the development of country water supplies since the 1860's when major works to supply the Bendigo goldfields were undertaken. Local trusts to construct and operate waterworks under Government supervision were provided for in the Water Conservation Act 1881. Development under the trust system was greatly stimulated by the Irrigation Act 1886, which provided for the construction of national headworks by the State, and vested in the Crown the right to the use and control of all surface waters. By 1900 there were 33 irrigation trusts and 18 other rural water supply trusts, but the system of local control was then breaking down under financial difficulties.

The Water Act 1905 established the State Rivers and Water Supply Commission to take over the Irrigation Trust districts (except the still-existing First Mildura Irrigation Trust) and to exercise the State's functions in the further control and development of surface waters outside the metropolis. The Commission now supervises all private diversions from streams and directly administers irrigation districts covering 917,580 hectares, rural waterworks and urban districts covering 4,867,192 hectares, flood protection districts covering 60,236 hectares and urban water supplies serving 332,142 people. It also supervises the activities of local urban water supply authorities supplying 712,750 people in 313 towns, as well as 117 local sewerage authorities and 34 river improvement and drainage authorities.

Works summarised

Since the State Rivers and Water Supply Commission began its operations in 1906 the capacity of storages under its control has been increased from 212.2 mil. cubic metres to 6,221.7 mil. cubic metres. In addition, Victoria has in effect a half share in River Murray Commission storages totalling 1,667.1 mil. cubic metres, bringing total capacity available to Victoria at 30 June 1975, to 7,888.8 mil. cubic metres. Most of the water used from these storages is for irrigation. The area irrigated in 1974-75 totalled 583,402 hectares (compared with 42,490 hectares in 1906). Irrigation deliveries in 1974-75 totalled 2,713.9 mil. cubic metres. The value of irrigation production in 1973-74 was estimated at \$257,340,000. Irrigation deliveries for that year totalled 2,713.8 mil. cubic metres. Of the total irrigation production about one-quarter was from lands irrigated by 'private diverters', i.e. irrigators who are authorised to take water from streams, lakes, etc., but who do not come within the boundaries of an irrigation district.

Storages

Capacities of principal storages (in mil. cubic metres) and system totals at 30 June 1975 were as follows:

Goulburn System—Eildon, 3,390.1; Waranga, 411.2; total, 3,862.1.

Murray System—half share of Murray storages, 1,667.1; total, 1,667.1.

Broken River System-Nillahcootie, 39.8; Mokoan, 364.8; total, 404.6.

Ovens System-Lake Buffalo, 24.1; Lake William Hovell, 12.3; total, 36.4.

Loddon System—Cairn Curran, 148.8; Tullaroop, 74.1; Laanecoorie, 7.7; total, 230.7.

Campaspe-Coliban System-Eppalock, 311.9; Coliban storages, 80.1; total, 392.0.

Wimmera-Mallee Systems—Rocklands, 335.5; Toolondo, 106.6; Bellfield, 78.5; total, 775.1.

Maffra-Sale System-Glenmaggie, 190.3; total, 190.4.

Werribee-Bacchus Marsh-total, 60.2.

Mornington Peninsula-total, 59.3.

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Irrigated culture

The following table shows details of the area of crops and pasture and the methods employed on land under irrigated culture during the 1974-1975 season.

AREA OF LAND UNDER IRRIGATED CULTURE: VICTORIA, 1974-75
(Hectares)

| | Method o | Method of irrigation | | | | | | |
|------------------------------------|----------|----------------------|---------|---------|---------------------|---------------|--|--|
| Crop | Spray | Furrow | Flood | Trickle | Multiple Methods | Total Area | | |
| Sown and native pastures | 24,577 | 12,274 | 461,094 | 2,037 | 3,666 | 503,648 | | |
| Lucerne | 4,932 | 266 | 8,140 | 28 | 127 | 13,493 | | |
| Cereals for all purposes | 1,264 | 256 | 5,938 | 87 | 112 | 7,657 | | |
| Tobacco | 3,596 | 18 | 29 | | 26 | 3,669 | | |
| Vegetables for human consumption . | 14,098 | 1,792 | 744 | 53 | 288 | 16,975 | | |
| Fruit | 5,458 | 2,342 | 6.052 | 2,034 | 762 | 16,648 | | |
| Grapevines | 2 254 | 12,881 | 1,122 | 189 | 137 | 16,683 | | |
| All other crops | 1,727 | 244 | 2,601 | 9 | 48 | 4,629 | | |
| Total | 58,006 | 30,073 | 485,720 | 4,437 | 5,166 | 583,402 | | |

Irrigation systems

Goulburn-Campaspe-Loddon. The principle storage for Goulburn waters is Lake Eildon, which was completed in 1956, submerging the original 377.5 mil. cubic metres Eildon storage completed in 1927. For the distribution of additional supplies available from Eildon and from other new storages on the Loddon and Campaspe rivers it has been necessary to undertake major enlargements in the distribution system by a long-term program of channel works which is still in progress. Deliveries of Goulburn-Campaspe-Loddon water during the 1954-55 Irrigation Season totalled 487.0 mil. cubic metres. This was near a record for annual deliveries at this time. The enlargement of Lake Eildon, and later storage and distribution developments, led to much higher delivery levels. Record deliveries of 1,310.7 mil. cubic metres were recorded in 1972-73. Deliveries during 1973-74 amounted to only 764.9 mil. cubic metres, owing to the fact that above average rains reduced demands.

Goulburn River water is diverted to the irrigation areas by gravitation from the pool formed by the Goulburn Weir, near Nagambie, completed in 1890 as a State work. The East Goulburn Main Channel, with a capacity of 2.5 mil. cubic metres per day, supplies the area around Shepparton. Two channels, each of 3.7 mil. cubic metres per day capacity, to the west, convey water to the off-river Waranga Reservoir, and supply part of the Rodney area through off-takes on the way. From Waranga Reservoir there are two main outlets, one supplying the western part of the Rodney area and the other, of 2.9 mil. cubic metres per day capacity, supplying the Waranga Western Main Channel, which runs 370 kilometres west across the Campaspe and Loddon Valleys to beyond Birchip.

Flows in the Waranga Western Main Channel are augmented by the injection of Campaspe water through a pumping station of 0.5 mil. cubic metres per day capacity near Rochester. Supply to the Tragowel and Boort areas is augmented by gravitational diversion of Loddon water.

The gross area of holdings in the Goulburn-Campaspe-Loddon systems is 543,523 hectares. The main products are dairy produce, fruit, wool, and fat lambs. Annual production of deciduous canning fruits in the eastern part of the system is about two-thirds of Australia's total.

Murray River System. Water is diverted from the Murray by gravity at the Yarrawonga Weir for the Murray Valley Irrigation Area and at the Torrumbarry Weir for the Torrumbarry irrigation system which extends to Swan Hill. Holdings in the Murray Valley area total 121,952 hectares, devoted mainly to dairying, fat lambs and canning fruit. Holdings in the Torrumbarry system total 161,950 hectares, devoted mainly to dairying and the production of fat lambs, with a concentration of vineyards, orchards and market gardens around Swan Hill.

Downstream from Swan Hill there are 5 districts supplied by pumping: the district of the First Mildura Irrigation Trust and the 4 Commission districts of Nyah, Robinvale, Red Cliffs and Merbein. These districts together serve 30,281 hectares, producing mainly dried vine fruits, with some citrus fruits and table and wine grapes.

Southern systems. The Maffra-Sale-Central Gippsland district, covering 52,800 hectares around Maffra and Sale, is supplied from the Macalister River, regulated by Lake Glenmaggie, and from the unregulated flow of the Thomson River. Dairy Farming is the principal activity. The Bacchus Marsh and Werribee District, supplied from storages in the Werribee River only 32 kilometres west of Melbourne, covers 6,420 hectares intensively developed for dairying and vegetables.

Wimmera-Mallee domestic and stock supply system

Storages in the Grampians in south-west Victoria ensure farm water supplies over an area of 25,000 square kilometres extending northward through riverless pastoral and cereal lands to the Murray. Farm dams throughout this region, which covers one-eighth of the total area of the State, are filled once each year, in the winter-spring season, through the medium of 10,600 kilometres of Commission channels and about 6,400 kilometres of private channels. Without this supply, occupation of the region would be extremely hazardous. Storage capacity has now been increased from 696.6 mil. cubic metres to 775.1 mil. cubic metres by construction of Lake Bellfield. Fifty towns, with a population of 46,000, receive their supply from the same system. Near Horsham and Murtoa, close to headworks in the south, a supply is maintained for the irrigation of an area of 3,030 hectares, mainly for dairying.

Drainage, flood protection and river improvement

The largest work in this category undertaken by the State Rivers and Water Supply Commission is the Koo-wee-rup-Cardinia flood protection district embracing 36,117 hectares of a continuous depression along the seaboard of Westernport. Once useless, indeed a hindrance to communication, this area now yields primary products worth several million dollars each year.

By the *River Improvement Act* 1948, the formation of local river improvement and drainage trusts under the supervision of the Commission has been greatly facilitated and since 1950, 32 such trusts have been formed (including the Dandenong Valley Authority). The importance of river improvement work is expected to continue to grow.

The Dandenong Valley Authority was created in 1963 by special legislation, with jurisdiction over the whole catchment of the Dandenong Creek (777 square kilometres) for purposes of arterial drainage, river improvement and flood protection. In June 1966 the Authority took over the Commission's Carrum Drainage District.

Finance

The net capital liability of the Commission at 30 June 1975 for works under its direct control was \$383.1 million. Eighty-five per cent of the cost of capital and interest repayments was borne by the State. Total expenditure on irrigation was \$196.4 million; \$33.3 million on rural, domestic and stock supplies; \$60.0 million on urban supplies and \$2.9 million on flood protection. A further \$45.3 million (relating mainly to irrigation) was expended on headworks but has not yet been allocated to the above. The remaining \$45.2 million was for expenditure on storages for private diversion and to supplement supplies to local authorities, and for items such as loan flotation expenses, miscellaneous surveys and investigations, and buildings, plant and stores.

Ten Year Program

The Victorian Water Commission's second ten year plan (for the period 1973-83), reflects a changing emphasis towards greater involvement with urban water supply, sewerage, environmental protection and water quality.

Two basic principles were adopted in formulating the program:

- (i) That the environmental impact of new projects be taken into account with emphasis on multi-objective planning.
- (ii) That each project should be economically sound and viable.

Major provisions of the 1973-83 program include:

the construction of new water supply trunk mains, reticulated services and water treatment plants at an estimated cost of \$112 million (including \$46 million for locally administered waterworks trusts):

the sewering of all towns with populations over 200 by the end of 1982 at an estimated cost of \$37 million;

the expenditure of \$15 million by river improvement, flood protection and drainage trusts to preserve flood waterways, protect valuable marginal land and safeguard the natural environment of streams in their catchment area;

expenditure of \$7.5 million on rural waterworks districts, including the Millewa pipeline scheme (to be completed by 1975) and commencement of the pipelining of the extensive Mallee domestic and stock channel system;

construction or enlargement of ten major storages at a total cost of \$47 million (including Victoria's share of the cost of the Dartmouth Dam project);

expenditure of \$58 million on irrigation and drainage works within existing irrigation districts; expenditure of \$30 million to reduce water losses and control seepage in irrigation distribution systems;

provision of adequate drainage systems, including groundwater control in irrigation districts at an estimated cost of \$15 million;

expenditure of \$13 million on salinity control works to arrest the deterioration of highly productive irrigated lands and protect the River Murray from saline inflows from Victorian irrigation areas; expenditure of \$5.5 million as Victoria's share of capital works undertaken by the River Murray Commission (additional to the Dartmouth Dam Project);

expansion of Water Commission facilities and resources at an estimated cost of \$12 million.

Queensland

Introduction

The important primary industries of Queensland are subject to relatively frequent and serious losses by drought and also to extensive flooding. There is therefore a definite and widespread need for the provision of works for water conservation for irrigation, for stock watering and for flood mitigation.

The average annual flow of all streams in Queensland of 133,216.1 mil. cubic metres, equivalent to 38.8 per cent of that for all Australian streams, gives ample scope for such works.

Water resources investigation

The Commissioner of Irrigation and Water Supply is required, under the Land and Water Resources Development Acts 1943 to 1946, to (a) prepare a complete description of the natural water resources of the State, both surface and underground, (b) undertake and carry out a survey of such resources, and (c) keep a record of all such natural water resources, surface and underground. For this purpose the Commission has installed and operates 571 stream gauging stations (516 of them being equipped with automatic water level recorders) and collects rainfall data from 32 stations in addition to the Bureau of Meteorology stations.

Licensing and control

As required under the Water Act, rights to underground and surface water are allocated and use controlled by a system of licensing of—(a) all artesian bores in the State; (b) all sub-artesian bores in areas proclaimed by the Governor in Council; the main purpose of proclaiming areas is to ensure the equitable distribution of available supplies and to obtain information on the quantity, quality, extent and use of those supplies; (c) all conservation and use (other than for stock and domestic supplies) of flow in watercourses.

The Commission is required to control use to share supplies as equitably as possible in periods of shortage of supply. At 30 June 1975, 14,409 waterworks licences were in existence, 10,701 being for pumps and 2,941 for dams and weirs and 767 for other works. Areas of sub-artesian water supply proclaimed in which all bores and wells require a license total about 1,420,400 square kilometres. A total of 31,238 bores (artesian and sub-artesian in proclaimed areas) were registered at 30 June 1975.

Development of water resources

The Commissioner of Irrigation and Water Supply is required to prepare a co-ordinated program of work for the conservation, utilisation and distribution of water resources, and to make recommendations to the Government regarding the carrying out of works in this program.

The Commissioner is principally responsible for water conservation and supply works for rural purposes, including irrigation, stock and domestic supply. However, in planning such works, particularly storages, economies to all users can accrue by providing where possible for dual or multi-purpose use of works for irrigation, rural, urban and industrial including power generation and mining purposes. As a result of this approach, 27 cities and towns now draw supplies from Commission storages or by diversion from regulated streams, four storages provide supply for power generation at three thermal stations (Swanbank, Calcap and Collinsville) and one hydroelectric station (Barron Falls), supply for mining operations is drawn from three other storages, and stock water supplies are or will be provided from two Commission and two private pipeline systems serving power stations or mining operations. Urgent water requirements of the expanding mining activities in Central, North and North West Queensland have brought out the need to further ensure the orderly and efficient development of the limited water resources in these areas, to provide for immediate and future needs for both urban, mineral and rural purposes.

Water conservation

At 30 June 1975, the Irrigation and Water Supply Commission controlled and operated 13 dams and 62 weirs with a total available storage capacity of 3,356.2 mil. cubic metres. Two dams (Tinaroo Falls and Eungella) are located in North Queensland; two (Fairbairn and Callide) in Central

Queensland; the other nine (Moogerah, Leslie, Borumba, Coolmunda, Wuruma, Atkinson, Monduran, Maroon and Beardmore) in South Queensland. Of the weirs 37 are in South, 14 in Central and 11 in North Queensland. Weir capacity ranges from 17.3 to less than 0.1 mil. cubic metres; 14 of them having a capacity of over 1.2 mil. cubic metres. Completion of Glenlyon, Kinchant and Julius Dams, Burnett Barrage, Baralaba and Bingedang Weirs now under construction will provide additional storage of 356.5 mil. cubic metres.

Irrigated culture and sources of supply

The total area under agriculture in Queensland in 1974-75 was 1,949,047 hectares. Of this area some 197,143 hectares were irrigated. The area of crops (excluding lucerne and sown and native pastures) irrigated was 156,296 hectares, or 8.0 per cent of the total area under crop. In addition there were 16,243 hectares of lucerne irrigated and 24,604 hectares of other sown and native pastures.

Unlike other States, the greater part of the area irrigated is by individual private pumping plants drawing supply from streams or underground sources, spread widely throughout the State, rather than in constituted irrigation areas where supply is provided by channel systems delivering water to farms.

The following table shows details of the sources of supply for the area of land under irrigated culture during 1974-75.

AREA OF LAND UNDER IRRIGATED CULTURE AND SOURCES OF SUPPLY: QUEENSLAND, 1974-75

| Source of supply | | | Area irri | igated | Percentage of total area irrigated | | |
|---|---|---|-----------|----------|--|------|-------|
| Underground supplies— | | | | hectares | hectares | % | % |
| Naturally replenished Artificially replenished | | | :} | • • | 108,729 | • • | 55.2 |
| Surface supplies— Irrigation areas . | | | | 25,066 | | 12.7 | |
| Regulated streams Unregulated streams | • | ٠ | .} | 48,448 | | 24.6 | |
| Farm dams . | : | : | • • | 14,184 | 87,698 | 7.2 | 44.5 |
| Town water supplies | | | | | 716 | | 0.4 |
| Total all sources . | | | | | 197,143 | | 100.0 |

Because of the predominance of irrigation by private diversion pumping, most of the storages are used to release water downstream to maintain supplies for such diversion.

The following table shows details of the area of crops and pastures irrigated and the methods employed on land under irrigated culture during the 1974-75 season.

AREA OF LAND UNDER IRRIGATED CULTURE: QUEENSLAND, 1974-75 (Hectares)

| | Method of irrigation | | | | | | |
|------------------------------------|----------------------|--------|--------|---------|---------------------|---------------|--|
| Crop | Spray | Furrow | Flood | Trickle | Multiple Methods | Total Area | |
| Sown and native pastures | 18,201 | 129 | 5,996 | 8 | 270 | 24,604 | |
| Lucerne | 15,955 | 8 | 219 | | 61 | 16,243 | |
| Cereals for all purposes | 14,257 | 13,880 | 5,406 | | 217 | 33,760 | |
| Sugar cane | 32,173 | 29,842 | 8,272 | 17 | 3,664 | 73,968 | |
| Cotton | 180 | 6,507 | 152 | | 94 | 6,933 | |
| Tobacco | 4,193 | 45 | 85 | 6 | 50 | 4,379 | |
| Vegetables for human consumption . | 16,533 | 1,268 | 137 | 325 | 155 | 18,418 | |
| Fruit | 3,854 | 126 | 48 | 695 | 164 | 4,887 | |
| Grapevines | 174 | 9 | 12 | 41 | 13 | 249 | |
| All other crops | 5,845 | 5,936 | 1,650 | 1 | 270 | 13,702 | |
| Total | 111,365 | 57,750 | 21,977 | 1,093 | 4,958 | 197,143 | |

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Irrigation areas

About 14.8 per cent of the area under irrigation in the State is concentrated in the six established Irrigation Areas constituted under the *Irrigation Act*, 1922–1973, where the supply is generally reticulated by channel systems, by means of gravity or by pumping, from the storage. In addition some supply is also provided from streams regulated by the storage. Details of Irrigation Areas established and one under construction are set out below.

Dawson Valley Irrigation Area. The scheme is situated around the town of Theodore and the area is supplied by five weirs (with a capacity of 36.26 mil. cubic metres) on the Dawson River. Pumping stations deliver water through channel systems to 61 farms. Cotton and grain crops account for the major part of production from irrigated farms. In addition to irrigation demand, the towns of Theodore and Moura and the Theiss Peabody Mitsui Mining Group obtain supplies from the storages.

Burdekin River Irrigation Area and Water Supply Scheme. This scheme is a complex system of water conservation, irrigation, industrial, urban and stock water supply. Storages are Eungella Dam on the Broken River, and Gorge and Blue Valley Weirs on the Burdekin River. From Eungella Dam, water is diverted directly by a privately owned 121 kilometre piped supply system to coal mining operations at Goonyella and Peak Downs and the town of Moranbah. Supplies for other purposes are maintained along the Bowen and lower 114 kilometres of the Burdekin River by release of water from the storages as required. These purposes and the arrangements for supply comprise (i) a pumping station on the Bowen River delivering supply through 34 kilometres of pipeline to the Collinsville Power Station, Collinsville Town and seven grazing holdings along the pipe line. (ii) six pumping stations delivering water through channel systems to 140 individual irrigated holdings in Clare, Millaroo and Dalbeg sections of the Burdekin River Irrigation Area. Principal production crops from irrigated farms are sugar cane, rice and seed crops. (iii) private diversion by pumping for irrigation on individual holdings along the Bowen and Lower Burdekin Rivers.

Mareeba-Dimbulah Irrigation Area. This area is supplied by Tinaroo Falls Dam and weirs on the Barron and Walsh River systems. Water is delivered through channel systems and regulated streams to 567 farms on which the principal crop is tobacco. In addition, water is supplied to the towns of Mareeba, Dimbulah, Walkamin, Mutchilba and Tinarro Falls and to the Hydro-electric Generating Station at Barron Falls.

St George Irrigation Area. This area is located near the town of St George and the principal storages for this area are Beardmore Dam and Jack Taylor Weir on the Balonne River and two weirs on Thuraggi Watercourse. Water is supplied to 31 farms on which the principal crops are cotton, soya beans and cereals and to the town of St George. The area has been extended, to date by a total of 13 new farms. Works to serve the remaining 3 farms in the extended areas are complete.

Emerald Irrigation Area. This scheme, a joint Federal and State undertaking involved the construction of Fairbairn Dam (completed 1972) on the Nogoa River, some 19 kilometres upstream from Emerald. Water from this dam and associated irrigation, drainage and roadworks could ultimately serve 80 or more irrigation farms on which 13,000 hectares could be irrigated annually. In addition, supplies will be provided for coal mining and urban water supply in the Blackwater area.

Bundaberg Irrigation Scheme. This is a joint Federal and State undertaking, estimated to cost \$76.01 million aimed at raising the efficiency and security of the established sugar industry in the region. Phase 1 of the Scheme involved the construction of Monduran Dam (capacity 585.9 mil. cubic metres) on the Kolan River, tidal barrages on the Kolan and Burnett Rivers, pumping stations and distribution works. The scheme will ultimately provide an assured water supply to 1,485 assignments with a gross area of 48,500 hectares and 6.2 mil. cubic metres annually to augment supplies to the city of Bundaberg.

Irrigation projects

These are schemes established under the *Water Act* 1926 where water from storage is released downstream to maintain adequate supplies for private pumping under licence, to land adjacent to the watercourse. Details of existing Irrigation Projects are set out in the following table.

IRRIGATION PROJECTS: QUEENSLAND

| Project Warrill Valley | | | | Number of licensed | Annual | Water supplied 1974-75 | | | |
|---|-----|---|-------|--------------------------------|--|---|-------------------------|--------------------------------------|--|
| | | Storage | pumps | water allocation | Irrigation | Other purposes | | | |
| | | Moogerah Dam | | 324 | ('000 cu m) 12,152 | ('000 cu m) 6,382 | ('000 cu 14,556 | Power generation | |
| Mary Valley . | . 1 | Borumba Dam | | 129 | 3,265 | 2,113 | 3,287 | and urban Industrial and urban | |
| Upper Condamine Macintyre Brook Upper Burnett . Lower Lockyer . Logan River . Chinchilla | | Leslie Dam . Coolmunda Dam Wuruma Dam Atkinson Dam Maroon Dam | | 73 132 262 157 158 | 11 174 15,417 28,927 8,655 8,035 | 10 145 4,946 25,256 5,446 3,121 | 1 681 406 927 | Urban Urban Urban | |
| Blackwater Water Supply | | Chinchilla Weir Bedford Weir | : | | 946 | 167 | 202 2,436 | Urban Urban and industrial | |

Other projects currently under construction or approved are set out below.

Border Rivers Project. The Dumaresq-Barwon Border Rivers Commission consisting of representatives of New South Wales and Queensland was created to control works on these rivers where they form the boundary between the two States, and to allocate the water. (For details see page 872).

Eton Irrigation Scheme. Following agreement by the State to accept a \$5 million non-reimbursable grant from the Commonwealth Government towards the cost of Kinchant Dam (the main storage for the Eton Irrigation Scheme), the scheme, as laid down in the initial report of January 1970, was modified to serve a greater area of existing cane lands and cope with changes in demand for water supply in the Mackay area.

The modified scheme, estimated to cost \$21.8 million, will provide for the annual irrigation of some 8,000 hectares out of 10,300 hectares of irrigated land in the General North Eton area at full development. The scheme will provide assured irrigation supplies along the Pioneer River and urban and industrial requirements in and near Mackay City.

Baralaba Weir Project. The Baralaba Weir Project on the Dawson River is a joint Commonwealth and State undertaking. The project consists of the construction of a weir across the Dawson River and a steel sheet piling weir (completed May, 1975) across an anabranch that leaves the Dawson River upstream of the main weir site. Available supply will be utilised jointly for the Baralaba Town Water Supply, Benleith Rural Water Supply and for private pumping for irrigation both from the storage and from water released downstream.

Bingegang Weir Project. Construction of Bingegang Weir on the Mackenzie River for the purposes of storing water for private pumping to the coal mines at Saraji, some irrigation by riparian land-holders and for stock supplies to landholders along the Saraji pipeline, commenced in June, 1975. The work will be largely financed from capital contribution by the Mining Companies, for an annual allocation of water.

Clare Weir. Establishment of camp and facilities associated with the contruction of the weir on the Burdekin River some eight kilometres upstream from Clare Township has commenced. The scheme is a joint Commonwealth/State undertaking and the weir will store 15.5 million cubic metres of water to be used to supplement irrigation supplies to the established irrigation areas and to provide supplies for limited new development.

In the long term in conjunction with a proposed major storage upstream on the Broken River (Urannah Dam), the weir will act as a pumping reservoir for a major irrigation development on the right bank of the river.

Leichhardt River, Mount Isa Area Water Supply Scheme. This scheme, which involves the construction of the Julius Dam on the Leichhardt River and a supply system to convey the water to the Mount Isa area is designed to provide water for the rapidly expanding needs of Mount Isa City and Mount Isa Mines Ltd and to maintain a reserve supply for possible other users in the foreseeable future. A contract was let in April 1973 for the construction of the dam. The Mount Isa Water Board was constituted in March 1973, to construct, own and operate the new supply works and to modify, operate and maintain the existing works for bulk supply to Mount Isa Mines Limited and the City.

Rural, stock and domestic supplies

Rural Water Supply Areas. Improvements to stock and domestic water supplies are assisted by the development of Rural Water Supply Schemes, where water from a central source is distributed through pipelines to individual farms and properties. Investigation and design of these schemes are carried out by the Irrigation and Water Supply Commission. The schemes attract a Government subsidy of 50 per cent of the capital cost, the balance being provided by way of Government guaranteed loans raised by the individual water boards. Operation and maintenance costs and capital charges are wholly met by rates levied on benefited properties. Fifteen schemes are in operation with a total benefited area of 115,872 hectares on 616 rural holdings.

Bore Water Supply Areas. Bore Water Supply Areas are constituted under the Water Act for the purpose of supplying water from artesian or sub-artesian bores to groups of adjoining properties for the watering of stock. The construction or acquisition of a bore and distribution system within an Area is financed by a Treasury loan, and rates calculated on the basis of area benefited are levied annually to meet loan repayments and maintenance and operating costs. Of the 60 Bore Water Supply Areas currently operating in the State, 54 are administered by the Commission and six by local boards elected by the ratepayers within the areas. A total daily flow of 0.1 million cubic metres was distributed through some 3,605 kilometres of drains to serve a benefited area of 1,800,000 hectares on 375 holdings.

River improvement trusts

These trusts are virtually autonomous bodies whose responsibility is to carry out and maintain works to improve stream channels, to increase their flood carrying capacity, to prevent or repair bank erosion and to mitigate flooding. Eighteen trusts are constituted throughout the State.

Drainage areas

Eleven drainage areas—eight in irrigation areas and three administered by autonomous drainage boards—have been constituted. These areas serve 339 holdings by 431 kilometres of drain; a total area of 29,245 hectares being drained.

Underground water supplies

The availability of underground water, particularly the Great Artesian Basin, has played a very big part in the development of the pastoral industry in Queensland. Underground water is also used extensively for irrigation on individual farms, particularly along the coastal fringe, and for domestic purposes. Over half the area irrigated in Queensland receives its supplies from underground sources and in accordance with the requirements of *The Land and Water Resources Development Acts* 1943 to 1946, the investigation of availability of underground water is being pursued by geological mapping, investigation drilling and hydro-geological assessment. The most important areas where water from this source is used for irrigation are in the following river basins; the Lower Burdekin, the Don (Bowen), the Pioneer, the Callide Valley, the Lower Burnett, many parts of the Brisbane Basin, including the Lockyer, and parts of the Upper Condamine Basin.

Burdekin Delta recharge. For the first time in Australia, the artificial replenishment of underground water supplies has been implemented in the Burdekin Delta. The North and South Burdekin Water Boards divert unregulated supplies of water from the Burdekin River for the purpose of artificially recharging the underground supplies from which some 29,000 hectares of sugar cane and 600 hectares of rice and other crops are irrigated and supplies for stock and domestic purposes, including the towns of Ayr and Home Hill are drawn.

Artesian water. The Great Artesian Basin in Queensland consists approximately of the area lying west of the Great Dividing Range, excluding the Cloncurry Mineral Field and the Barkly Tablelands. It comprises about 1,124,000 square kilometres, or about two thirds of the total State area. This part of the State is predominantly pastoral and is mainly dependent for water supplies on artesian and sub-artesian bores, and, where normal surface storage is not readily available, on excavated tanks. At 30 June 1975, a total of 3,349 artesian bores had been drilled in the Great Artesian Basin, of which 2,276 continue to flow, providing a supply of 0.9 million cubic metres per day. Although this supply will continue to diminish for a further 30 to 40 years, after that time a steady and continuous flow of some 0.6 million cubic metres per day is expected to be maintained.

Stock route watering

In 1935 the Trunk Stock Route System was inaugurated and from then on the construction of watering facilities on stock routes was greatly expanded. The Irrigation and Water Supply Commission acts as a constructing authority for the Stock Routes Co-ordinating Board in these matters, and had, to 30 June 1975, completed 648 facilities with a further 5 under construction and 8 under investigation. The two authorities mentioned above carry out continuous investigation to ascertain general stock movements so that new facilities may be provided as required.

Farm Water supplies

Under the Farm Water Supplies Assistance Acts 1958 to 1965, technical assistance is available to landholders throughout the State on all matters relating to water conservation and utilisation for domestic, stock and irrigation purposes, on individual holdings or groups of holdings, covering construction of farm dams, irrigation bores and stock bores, and pumping and distribution systems. In addition, the Government provides finance to farmers by way of special Agricultural Bank loans, and technical advice on construction and installation. During 1973–74, 735 applications and in 1974–75, 701 applications, were received for assistance under this Act and advances of \$393,822 and \$628,894 respectively were paid by the Bank bringing the total advances over the 17 years of the scheme's existance to \$9,892,025.

By 30 June 1975, 7,540 property inspections had been carried out, 1,914 final plans had been issued for 21,648 hectares of irrigation and for storages with capacity of 26.5 million cubic metres for irrigation purposes and 16.9 million cubic metres for stock use at an estimated cost of \$10,041,323.

South Australia

Administration

All major water resources and most public water supply schemes in South Australia are administered by the Engineering and Water Supply Department under the various statutes mentioned below.

The Waterworks Act, 1932–1974 empowers the Minister of Works to impound or divert the water from any lake, watercourse or underground source for the purpose of establishing and maintaining public water supply schemes to serve proclaimed water districts throughout the State. The Engineering and Water Supply Department administers and operates the great majority of water supplies in South Australia. A feature of these supplies is the extensive networks of pipelines transporting water over long distances from major resources to cities, towns and farmlands as well as numerous separate town and farmland schemes. A few domestic water supply schemes in Government irrigation areas along the Murray Valley in South Australia are administered by the Department of Lands. The Electricity Trust of South Australia administers and operates the water supply of Leigh Creek town and coalfield.

The Water Conservation Act, 1936–1972, relates to the provision of small dams, wells, bores and other waterworks to assist development in the more remote areas of the State or to provide water for travellers and travelling stock in such areas.

Under the River Murray Waters Act, 1935–1971, which ratifies the River Murray Waters Agreement, the Engineering and Water Supply Department operates and maintains Lake Victoria storage, nine weirs and locks downstream of Wentworth, N.S.W., and barrages at the river mouth.

The Water Resources Act, 1976 which came into force from 1 July, 1976, supersedes the Control of Waters Act 1919 and the Underground Waters Preservation Act 1969 and represents the culmination of the development of the Government's water resources policy involving the management of all aspects of water—surface and underground, quality and quantity.

The Act provides for the control or diversion of surface waters from Proclaimed Watercourses and for the control of the withdrawal of underground waters from Proclaimed Regions. At the time of commencement of the Act, the River Murray was the only Proclaimed Watercourse and the Proclaimed Regions were the Northern Adelaide Plains and Padthaway: The legislation provides for control over the construction or modification of most categories of wells over the whole State and for the abatement of pollution of all waters.

It establishes a South Australian Water Resources Council and Regional Advisory Committees as vehicles for public involvement in the water resources management process. At the time of commencement of the Act Regional Committees operated in respect of the River Murray, the Northern Adelaide Plains, Padthaway and the Arid Areas. In addition the Act provides for a Water Resources Appeal Tribunal to give individuals the opportunity to appeal against decisions of the Minister pursuant to the Act.

Irrigation

Australian irrigation originated in the upper Murray in South Australia and the Mildura area of Victoria. South Australian irrigation commenced with an agreement between the Chaffey brothers in 1887 whereby an area was made available for the establishment of certain irrigation works at Renmark. From this start government, co-operative and private irrigation areas totalling more than 42,000 hectares have been developed in the South Australian section of the Murray Valley.

The major authorities controlling River Murray irrigation are the Department of Lands which administers government controlled areas totalling 17,000 hectares (under provisions of the Irrigation Act, 1930-1971 and other statutes), and the Renmark Irrigation Trust (founded on the Chaffey brothers' venture) which administers distribution works supplying 4,000 hectares of irrigated land (under provisions of the Renmark Irrigation Act, 1936-1969). In addition some 21,000 hectares of irrigated lands are controlled by smaller co-operatives, development companies and private owners.

In the Government irrigation areas land is leasehold, whereas in the areas controlled by the Renmark Irrigation Trust and other co-operatives with local boards of management the land is freehold.

The irrigation areas comprise high land areas to which water is pumped from the River, and reclaimed swamp lands along the lower section of the River which are watered through sluices in the protecting levees. Considerable importance is placed on adequate drainage of both high lands and reclaimed swamp lands.

The principal high land crops comprise citrus and stone fruits and vines. The reclaimed swamps are used almost exclusively for pasture and fodder crops. However, vegetable crops of various kinds are also important in both types of irrigated lands.

Except for quantities held in various lock pools and natural lakes, no water from the Murray is stored within South Australia for irrigation purposes. Usage of the River is therefore planned on the basis of the minimum monthly flows to which South Australia is entitled under the River Murray Waters Agreement. This factor, plus the need to reserve water for city, town and rural water supply system, has resulted in the expansion of irrigation from the River being rigidly controlled by the government.

Diversions of water for irrigation of areas in excess of 0.4 hectares are made under licence issued under the Water Resources Act, 1976. Irrigation offtakes are metered but no charge is made for water taken unless licensed quotas are exceeded. However, block holders in government and trust operated irrigation schemes are rated or charged by measure by the administering authorities to recoup pumping and distribution costs.

In addition to irrigation from the River Murray there are considerable areas irrigated from underground sources by individual landholders in South Australia. The most important of these areas comprise 3,500 hectares of market gardens on the northern Adelaide plains and 6,000 hectares of pastures, fodder and seed crops, and vines in the Padthaway district of the south-eastern region.

Irrigated culture

The following table shows details of the area of crops and pasture and the methods employed on land under irrigated culture during the 1974-75 season.

AREA OF LAND UNDER IRRIGATED CULTURE: SOUTH AUSTRALIA, 1974-75 (Hectares)

| | Method | Method of irrigation | | | | | | | | |
|----------------------------|--------|----------------------|---------------------|---------------|-----|--------|--|--|--|--|
| Crop | | | Multiple methods | Total area | | | | | | |
| Sown and native pastures . | 8,174 | | 14,166 | | 18 | 22,358 | | | | |
| Lucerne | 12,858 | | 4,182 | | 16 | 17,056 | | | | |
| Cereals for all purposes . | 350 | | 80 | | (a) | 430 | | | | |
| Vegetables for human con- | | | | | • , | | | | | |
| sumption | 5,181 | 483 | 132 | 33 | 59 | 5,888 | | | | |
| Fruit | 9,328 | 2,751 | 133 | 845 | 206 | 13,263 | | | | |
| Grapevines | 5,511 | 9,663 | 742 | 1.689 | 382 | 17,987 | | | | |
| All other crops | 646 | ² 57 | 1,251 | 5 | 7 | 1,966 | | | | |
| Total | 42,048 | 12,954 | 20,686 | 2,572 | 688 | 78,948 | | | | |

(a) Not available for publication; included in 'All other crops'.

Water supply schemes

Adelaide Metropolitan Water Supply. Adelaide and surrounding areas of urban and rural development extending 80 kilometres to the south and 80 kilometres to the east and north receive water from nine reservoirs in the nearby Mount Lofty Ranges and by means of two pipelines pumping from the River Murray at Mannum and Murray Bridge.

The principal sources of supply for the reservoirs are the Rivers Torrens, Onkaparinga, South Para and Myponga. These have been developed to provide a total storage capacity of 188.7 mil. cubic metres in the nine reservoirs. A tenth reservoir to provide a storage of 18.0 mil. cubic metres on the Little Para River is under construction.

The pipeline from Mannum has a nominal annual capacity of 118.0 mil. cubic metres and the one from Murray Bridge an annual capacity of 163.0 mil. cubic metres. Actual quantities pumped however, depend upon intakes of reservoirs and consumption as influenced by climatic and demand factors. On the average the Adelaide water supply system currently depends upon the River Murray for about 30 per cent of its supply, with the percentage rising with urban and industrial development.

Water consumption for the whole area in 1975-76 was 172.3 mil. cubic metres, the amount pumped from the Murray through the two pipelines being 44.9 mil. cubic metres.

Capital works are financed principally from State loan funds. The net loan funds invested at 30 June 1976 in the Adelaide metropolitan water supply system was \$169,447,000. New works in progress include the Little Para dam estimated to cost \$37,000,000 and a ten year program to provide water treatment works for all sources of supply at an estimated cost of \$119,000,000. Commonwealth Government financial assistance is being provided for the latter program.

Country reticulation supplies. Areas extending to a distance 145 kilometres north of Adelaide are supplied from the Warren, Barossa and South Para Reservoirs (61.2 mil. cubic metres) in the Barossa Ranges. Supplies to these areas are supplemented by River Murray water delivered into the Warren Trunk Main by a pipeline extending from Swan Reach to a point near Stockwell. This pipeline has a nominal capacity of 24.9 mil. cubic metres per year. Areas further north are supplied from Beetaloo,

Bundaleer and Baroota Reservoirs (capacity 16.2 mil. cubic metres) and the duplicate Morgan-Whyalla Pipeline system which can supply up to 65.7 mil. cubic metres per year from the River Murray. A large part of Eyre Peninsula is supplied through the 386 kilometres Tod Trunk Main and branch mains which distributes water from the Tod Reservoir (11.3 mil. cubic metres) and the Uley-Wanilla, Lincoln and Polda underground basins. Along the River Murray all towns are supplied from the River with reticulation to surrounding farmlands up to 50 kilometres distant in some cases. A pipeline extended from Tailem Bend to Keith and a network of branch mains provide the means of conveying River Murray water to numerous towns and large areas of farmlands in the upper south-east.

Surface and underground resources have been developed to supply most country centres not covered by the larger schemes. Victor Harbor and adjoining south coast resort centres are supplied from reservoirs and the River Murray. A reservoir on Kangaroo Island supplies Kingscote and adjacent farmlands. Underground resources of the lower south-east supply all towns in the region, the city of Mount Gambier and nearby farmlands being reticulated from the well-known Blue Lake. At the far northern opal mining town of Coober Pedy a reverse osmosis desalination plant provides a potable supply from brackish groundwater. Other centres in the far north obtain supplies from the Great Artesian Basin.

Net loan funds invested in country water conservation and distribution works at 30 June 1976, amounted to \$167,032,000 (exclusive of river control and irrigation works on the River Murray). The various water supply systems contain approximately 14,650 kilometres of water mains from which consumption in 1975–76 was 82.8 mil. cubic metres.

Works in progress include extension of reticulation works on central Eyre Peninsula, for which a Commonwealth Government grant of \$2,100,000 has been received, development of Uley South Underground Basin on southern Eyre Peninsula to augment the supply at Port Lincoln, and upgrading of various other country systems to meet current demands.

Underground water

For information on underground water resources in South Australia see Year Book No. 55 and earlier issues.

Farm water schemes

The Department of Agriculture provides an advisory service on water conservation and irrigation designs on farms, and on the suitability of surface and underground water for irrigation and stock purposes. In addition, a great part of the farming areas is supplied by the Engineering and Water Supply Department with water under pressure from extensive distributions systems connected to various reservoirs and the Murray River.

South-eastern drainage

In the south-east of South Australia it has been necessary to construct drainage schemes to dispose of surplus water from areas where a series of valleys or flats is separated by low ranges, parallel to the coastline, which prevent natural drainage. The Millicent Drainage System, completed in 1885, reclaimed about 40,500 hectares. The South-eastern Drainage Area System, which is controlled by the South-eastern Drainage Board, comprises drains constructed by the State Government at public expense, plus those undertaken by the Government in co-operation with the landholders. The area is bounded on the east by the State boundary, and on the west by the sea coast. It extends from about 89 kilometres north of Kingston, southerly to near Millicent and Kalangadoo. Up to 1948 about 692 kilometres of drains had been provided at a cost of \$1,441,752. These were of a developmental nature intended more to promote the rapid removal of floodwaters than to provide a complete system of drainage. Since 1948 the complete drainage of the Biscuit, Reedy Creek and Avenue Flats in the Western Division has been carried out. The southern section of 105,200 hectares involved the excavation of 6,193,000 cubic metres in providing 552 kilometres of new or enlarged drains, whilst the northern area of 56,650 hectares required the excavation of 2,333,000 cubic metres in the construction of 159 kilometres of drain.

The drainage of 294,200 hectares in the Eastern Division of the south-east, situated east of Bakers Range and extending from near Kalangadoo to north of Naracoorte, was commenced in 1960 and completed in 1970. The work required the construction of a main diversion drain (consisting of the enlargement of 39 kilometres of existing drain and the construction of 35 kilometres of new drain) from the sea at Beachport to the Naracoorte-Mount Gambier railway line near Struan. The provision of new branch drains and the enlargement and extension of existing branch drains completed the approved works. A total excavation of 5,581,000 cubic metres over a length of 189 kilometres of new or enlarged drains was involved.

The capital cost of drainage in the South-eastern Drainage Area System to 30 June 1976 was \$18 million, and the length of drains constructed was 1,408 kilometres. An extensive system of private drains (many of which discharge into drains constructed under Government authority) also exists in the south-east of the State.

Murray River Irrigation Areas

Where irrigation water in excess of plant requirements has been applied, perched water tables develop. Rising to the level of tree roots, these cause the death of orchards from salination and water-logging. Most orchards and vineyards are now drained by plastic and tile drainage systems, thus restoring their health and productivity. At present disposal of drainage water is achieved by pumping to basins on river flats where it evaporates, or is discharged into the river when it is in flood. It may also be discharged into underlying sand and limestone aquifers. The usefulness of these aquifers is declining as they are becoming fully charged with water.

Investigations are being made, in the light of the new Water Resources Act, into alternative disposal schemes to provide added protection to both the river and the associated underground aquifers.

Western Australia

Administration

The Minister for Water Supply, Sewerage and Drainage administers the departmental irrigation schemes under the Rights in Water and Irrigation Act, 1914–1971. He is advised by an Irrigation Commission representing the local irrigationists and government, technical and financial branches. He also administers, under the Country Areas Water Supply Act, 1947–1964, the water supplies to certain country towns and reticulated farmland. As Minister for Works he controls minor non-revenue producing supplies to stock routes and a few mines and agricultural areas with their associated communities. A small number of town supplies are administered by local boards under the Water Boards Act, 1904–1969, which provides a large degree of autonomy with ultimate Ministerial control.

Irrigation

Irrigation schemes have been established by the Government on the coastal plain south of Perth in the Waroona, Harvey and Collie River Irrigation Districts between Waroona and Dardanup, the water being channelled from dams in the adjacent Darling Range.

Logue Brook Dam with a capacity of 24.3 mil. cubic metres, Harvey Weir (8.0 mil. cubic metres) and Stirling Dam (57.0 mil. cubic metres) supply the Harvey Irrigation District, the rated area of which is 5,581 hectares. The Harvey District links up with the Waroona Irrigation District, which is served by Waroona Dam (15.0 mil. cubic metres), Drakes Brook Dam (2.3 mil. cubic metres) and Samson Brook Dam (9.2 mil. cubic metres) and comprises a rated area of 1,573 hectares. Wellington Dam on the Collie River with a capacity of 185.2 mil. cubic metres serves an area of 4,896 rated hectares in the Collie River Irrigation District. Pastures for cattle comprise 91.9 per cent of water usage in these districts. Glen Mervyn Dam (1.5 mil. cubic metres) stores water for regulated release down the Preston River for irrigation of orchards and crops when the natural summer stream flow is insufficient to meet the demand.

Since the mid 1930s, a centre of tropical agriculture has been developed at Carnarvon, near the mouth of the Gascoyne River. Private pumping from sands of the Gascoyne River is the principal source of irrigation water for the 167 plantations. Because of the high risk of drawing in surrounding saline ground waters by over-pumping, the usage of water by the planters is controlled strictly by the Government. The Government is developing up-river sources and delivers water by pipeline to 109 plantations in the district. Bananas for the Perth market and fruit and vegetables for the Perth and Adelaide markets are the principal crops. A tropical research station is maintained at Carnarvon by the Department of Agriculture.

The Ord River Irrigation Project in the Kimberley Division provides for the eventual development of an irrigation area of 72,000 hectares of land, one third of which is in the Northern Territory.

The first stage, in which water was supplied to 30 farms averaging 270 hectares plus a 970 hectare pilot farm from the Kununurra Diversion Dam with a capacity of 98.7 mil. cubic metres, was completed in 1965. Cotton was the principal crop with grain sorghum and fodders for cattle fattening also important. Completion in 1971 of the Ord River Dam, which stores 5,720 mil. cubic metres in Lake Argyle, has allowed expansion of the area to be irrigated into the second stage. Five farms averaging 388 hectares were allocated in 1973. Since then cotton has been phased out due to high off farm costs and increasing costs of insect control specific to the cotton industry. A downturn in the Australian beef industry coincided with this and farming activity was reduced. Rice and peanuts are now showing promise commercially.

The Camballin Irrigation District on the Fitzroy River flood plain in the West Kimberleys is dependent on diverted river flows and a small volume of storage behind the diversion structures on the Fitzroy River and Uralla Creek. Grain and fodder sorghums are the main crops.

Irrigated culture

The following table shows details of the area of crops and pasture and the methods employed on land under irrigated culture during the 1974-75 season.

AREA OF LAND UNDER IRRIGATED CULTURE: WESTERN AUSTRALIA, 1974-75 (Hectares)

| | Method of irrigation | | | | | | | | |
|----------------------------|----------------------|--------|--------|---------|---------------------|---------------|--|--|--|
| Crop | Spray | Furrow | Flood | Trickle | Multiple methods | Total area | | | |
| Sown and native pastures . | 1,575 | 2,389 | 9,655 | 4 | 106 | 13,729 | | | |
| Lucerne | 803 | 28 | 254 | | 15 | 1,100 | | | |
| Cotton | | 1,564 | 240 | | | 1,804 | | | |
| Cereals for all purposes . | 226 | 941 | 561 | | | 1,728 | | | |
| Vegetables for human con- | | | | | | , , | | | |
| sumption | 3,261 | 284 | 175 | 53 | 55 | 3,828 | | | |
| Fruit | 2,914 | 197 | 132 | 1,504 | 173 | 4,920 | | | |
| Grapevines | 389 | 18 | 36 | 171 | 17 | 631 | | | |
| All other crops | 123 | 176 | 9 | | 10 | 318 | | | |
| Total | 9,291 | 5,597 | 11,062 | 1,732 | 376 | 28,058 | | | |

Country water supplies controlled by Department of Public Works and Water Supply

Since 1947 enlargement and extensions of the Goldfields and Agricultural Water Supply and the development of the Great Southern Towns Water Supply have been carried out, mainly in accordance with a project known as the Modified Comprehensive Scheme. Under this scheme water has been supplied to towns and farms in an area of 1,700,000 hectares in mixed farming (cereal and sheep) districts of Western Australia. The modified scheme was completed in 1961 at a cost of \$20.6 million, of which the Commonwealth Government contributed \$10 million under the Western Australia Grant (Water Supply) Act 1948. A further request was made by the State Government in 1963 for a grant of \$10.5 million representing half the estimated cost of proposed extensions which would increased by 1,500,000 hectares the area served by the scheme. The Commonwealth Government agreed to provide assistance in the form of an interest-bearing loan up to a maximum of the amount requested, advances to be made during a period of eight years commencing 1965–66. Legislative authority for the loan is given by the Western Australia (South-west Region Water Supplies) Agreement Act 1965.

Mundaring Reservoir on the Helena River, 42 kilometres from Perth, is the source of water supplied to the Eastern Goldfields. It has a capacity of 77.0 mil. cubic metres and is connected to Kalgoorlie by a pipeline with extensions to towns and agricultural areas. At 30 June 1975 the Goldfields and Agricultural Water Supply was serving 94 towns and localities, and water was being reticulated to farms in an area of 2,300,000 hectares. The total length of pipelines was 8,151 kilometres and the number of services was 27,157. Consumption during 1974–75 including supplies drawn from local schemes and from the Metropolitan Water Supply, was 18.6 mil. cubic metres.

The Great Southern Towns Water Supply pipes water from Wellington Dam to towns on the Great Southern Railway from Brookton to Katanning as well as a number of other towns. At 30 June 1975 the Supply was serving 32 towns and water was being reticulated to 600,000 hectares of farmland. The total length of pipelines was 1,596 kilometres, and the number of services was 10,653. Consumption during 1974-75, including supplies drawn from local sources, was 4.9 mil. cubic metres.

Eighty six local schemes supply water from stream flow, dams, tanks, wells, and bores, mainly to country towns. At 30 June 1975 the total length of water mains was 1,618 kilometres and the number of services was 27,265. Consumption was 15.1 mil. cubic metres. There are 7 Regional Waters Supply areas, supplying 27 towns. Consumption was 17.2 mil. cubic metres, number of services totalling 14,267, and length of water mains 1,074 kilometres.

Other country water supplies

As well as the schemes controlled by the Department of Public Works and Water Supply, there are four local Water Boards which draw supplies from stream flow, dams, wells, and bores. In addition, some local authorities supply water within their boundaries. The Forests Department,

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sawmilling companies, and mining companies operate schemes to supply water to their towns and operations. Railways of the Commonwealth and State Governments make independent provision for supplies of water for their own purposes, although considerable additional quantities are consumed by the railways from other sources, such as those controlled by the Department of Public Works and Water Supply and the Metropolitan Water Supply, Sewerage and Drainage Board.

Underground water

Extensive use is made of underground water for town water supplies, household gardens, market gardening, orchards, pastures and stock water. Artesian wells throughout the State and non-artesian wells within 'declared' areas must be licensed under the Rights in Water and Irrigation Act. 1914–1971.

Tasmania

Main purposes of water conservation and utilisation

Because of the generally more adequate rainfall in Tasmania, scarcity of water is not such a problem as it is in most mainland areas, though not all streams are permanently flowing. The only large scale conservation by reservoirs is for hydro-electric power generation, but there are some moderately sized dams built by mining and industrial interests and by municipal authorities for town water supplies. 'Run of the river' schemes are quite adequate for assured supply in many municipalities. The main supply for Hobart and adjacent municipalities originates from a 'run of the river' scheme based on the Derwent River. The river is controlled in its upper reaches by eight dams, built for hydro-electric power generation, and these tend to stabilise river flow.

Until a few years ago irrigated areas were negligible except for long established hop fields, but there is a rapidly expanding use of spray irrigation on orchards, pastures, potatoes and beans. Until recent years there has been almost complete dependence on natural stream flows, but the need for some regulating storages has become apparent. Increasingly, farmers are constructing storages of their own, and the extension of this practice is foreseen as the logical solution in most areas, as valleys are narrow and steep sided. Single large reservoirs cannot economically serve large areas of suitable land, as nearly every valley is separated from others by pronounced hills, prohibiting the construction of cross-country channels.

Underground water suitable for stock, minor irrigation works and domestic use is exploited in the consolidated rocks of southern, midlands and north-western Tasmania. In the south and midlands nearly all groundwater is obtained from Permian and Triassic rocks. In the north-west, water is recovered from a variety of rocks ranging from Precambrian dolomites, quartzites and schists to Tertiary basalts and Quaternary sands. The highest yields are obtained from the dolomites and the basalts. In the central north and north-east unconsolidated Tertiary clays and gravels yield water of variable quality, and in some coastal areas, notably King and Flinders Islands, water is obtained from aeolian sands.

The Mines Department is charged with the investigation of underground water resources. There is a great reserve of untapped permanent streams in the western half of the State, which is largely unsettled. The State's largest rivers discharge in the west, but diversion to the eastern half of the watersheds is not regarded as practicable. The Hydro-Electric Commission, however, has planned for the future development of four storage dams in the West Coast region on the Pieman, Murchison and Mackintosh Rivers.

Administration

In Tasmania, water supply was once exclusively the responsibility of local government authorities, but two statutory authorities, the Metropolitan Water Board and the Rivers and Water Supply Commission, now operate bulk supply schemes, piping water for distribution by the local government authorities in the Hobart and Launceston regions, and directly to certain industrial consumers.

Metropolitan Water Board. The overall control of the supply of water to the cities of Hobart and Glenorchy and the municipalities of Kingborough and Clarence is vested in the Metropolitan Water Board, the local government authorities retaining primary responsibility for reticulation and sales to consumers. Water is also supplied by the Board to urban areas in the Sorell, New Norfolk and Brighton municipalities. The principal source of water for urban Hobart is the Derwent River from which the Metropolitan Water Board operates two schemes. The West Derwent Water Supply supplies the cities of Hobart and Glenorchy and the Kingborough Municipality. Water for this scheme is drawn from the Derwent at the Bryn Estyn pumping station. The Southern Regional Water Supply scheme, originally constructed by the Rivers and Water Supply Commission to serve Clarence Municipality and other areas on the eastern shore of the Derwent, draws its water from the Derwent at Lawitta (almost directly opposite the intake for the West Derwent Water Supply Scheme). The responsibility for loan raising, debt servicing and extensions to the schemes rests with the Metropolitan Water Board.

Rivers and Water Supply-Commission. The Commission is empowered by the Water Act 1957 to take water at streams and lakes, or to issue others with licences to do so; licensing covers supply to specific industries and municipalities as well as irrigation. The Commission is concerned with drainage trusts' operations, river improvements (including repairs after flood damage), stream gauging, its own regional water schemes, and with water supply, sewerage and drainage of towns. It operates in a similar manner to the Metropolitan Water Board in controlling the water schemes serving the East Tamar region (North Esk Regional Water Supply), the West Tamar area (West Tamar Water Supply) and the Prosser River Scheme, which was originally constructed to supply water to a sodium alginate industry at Louisville near Orford and to supplement the water supply of the township of Orford (in December 1973 the sodium alginate industry ceased production). The North Esk Regional Water Supply was constructed to meet industrial requirements of the alumina refinery and other industries at Bell Bay, and to provide bulk supplies to surrounding municipalities on the eastern bank of the River Tamar. The West Tamar Water Supply was constructed primarily to meet domestic requirements of urban areas in the Beaconsfield municipality. The local government authorities retain primary responsibility for reticulation and sale to consumers, except to certain industrial users.

In municipalities not serviced by the Metropolitan Water Board or the Rivers and Water Supply Commission, the supply of water is a function of the local municipal council. Where the construction of water and sewerage schemes is beyond the financial capacity of a local government authority, or if it requires assistance to pay for water supplied from regional schemes, the Commission may make recommendations to the Minister for payment of a subsidy.

Industrial water schemes

Four principal industrial water schemes have been installed privately—for a paper mill at Boyer using water from the Derwent River, for a paper mill at Burnie using water from the Emu River, for another at Wesley Vale using water from the Mersey River, and for a factory at Heybridge reticulating water from Chasm Creek. The State Government has constructed some water schemes for use primarily for industrial purposes. These include the scheme serving the alumina refinery at Bell Bay referred to above, and a storage supplementing the summer flows of the Kermandie River for use by a woodpulping plant at Geeveston.

Irrigation

The Cressy-Longford Irrigation Scheme was officially opened in March 1974 and services approximately 65 farms within the irrigation district. The farms are supplied with irrigation water by either flood or spray sprinkler systems. A further 30 farms, on the fringes of the irrigation district, will benefit from augmented river flows. This scheme, which was designed and is operated by the Rivers and Water Supply Commission, involves the diversion of water from the tailrace of the Poatina hydro-electric power station through some 97 kilometres of earthen channels to irrigate eventually some 8,094 hectares. At least half this area will be served by gravity and it is estimated that under maximum development 7.4 mil. cubic metres of water annually would be available to farmers both inside and outside the irrigation district.

The Cressy-Longford Scheme and a privately owned scheme at the Lawrenny estate at Ouse are the only extensive irrigation works in Tasmania. A large portion of the area under irrigation in the State is watered by private schemes pumping water from natural streams.

Irrigated culture

The following table shows details of the area of crops and pasture and the methods employed on land under irrigated culture during the 1974-75 season.

AREA OF LAND UNDER IRRIGATED CULTURE: TASMANIA, 1974-75 (Hectares)

| | Method | of irrigation | | | | |
|----------------------------|--------|---------------|-------|---------|---------------------|---------------|
| Crop | Spray | Furrow | Flood | Trickle | Multiple methods | Total area |
| Sown and native pastures . | 5,852 | 497 | 4,442 | 19 | 279 | 11,089 |
| Lucerne | 956 | 24 | 35 | 1 | 18 | 1,034 |
| Cereals for all purposes . | 257 | | | | | 257 |
| Vegetables for human con- | | | | | | |
| sumption | 7,302 | 28 | | 8 | 38 | 7,376 |
| Fruit | 2,142 | 49 | 99 | 211 | 104 | 2,605 |
| All other crops | 1,030 | 164 | 115 | 15 | 1 | 1,325 |
| Total | 17,539 | 762 | 4,691 | 254 | 440 | 23,686 |

Northern Territory

Information on climatic conditions will be found in the chapter Climate and Physical Geography of Australia, and a brief outline of contour and physical characteristics in Chapter 30, The Territories of Australia.

Administration

Under the Control of Waters Ordinance 1938 of the Northern Territory, control of natural waters are vested in the Crown. Where a watercourse or lake forms a boundary of any land alienated by the Crown, the beds and banks are deemed to remain the property of the Crown (except in special cases). The diversion of water is prohibited except under prescribed conditions. The Ordinance requires that drilling for ground-water be carried out only by drillers who are registered under the Ordinance. Registered drillers are required to provide the Government with information on bores drilled including the location, depth and size of bore, strata encountered and water produced. In particular areas, described as Water Control Districts, where stricter control is necessary the construction or use of a well or water bore without a permit can be prohibited.

Under the Water Supplies Development Ordinance 1960 any landholder engaged in pastoral or agricultural production may seek information or advice from the Commissioner of Water Development who is appointed under the Ordinance. He may also apply for an advance towards the cost of work proposed to be carried out. The Ordinance also provides for a refund to the landholder of the cost of drilling an unsuccessful bore where the landholder had applied to the Commissioner for advice on its construction and has carried out all drilling operations in accordance with advice given.

The Water Resources Branch of the Department of the Northern Territory carries out systematic stream gauging, the collection of data relating to the quantity and quality of surface and ground water, the planning of water use for industrial, irrigation and town water supplies, and flood prevention and control. It also provides a general advisory service to the public on water resources and water conservation by providing information on the geology of the Territory, the prospects of obtaining groundwater, the possible location of bore sites, the method of drilling and equipping bores, information on stream flows, surveys of dam sites, the design of water supply schemes and reticulation layouts, and on the chemical and bacteriological quality of water supplies. It is involved in water pollution studies and control, and carries out environmental assessments of water and related developments. The Branch administers both of the ordinances described.

Underground water

For information on underground water resources in the Northern Territory see Year Book No. 55 and earlier issues, and the Australian Water Resources Council's 1972 publication, Groundwater Resources of Australia.

At June 1975, 8,986 bores and wells were registered in the Northern Territory. Of these 5,039 were for pastoral use, 441 for agricultural use, 769 served town domestic supplies, 154 were is use on mining fields, 1,066 were investigation bores and 1,517 were classified under other uses. These include successful bores which have collapsed and bores which were unsuccessful owing to drilling difficulties, or to insufficient quantity or poor quality of the groundwater.

To assess the effects of pumping, water level measurements are regularly taken in about 200 bores of which 25 are equipped with automatic recorders.

Community water supplies

The largest water conservation projects in the Territory are the Darwin River Dam (259.0 million cubic metres) and the Manton Dam (15.7 million cubic metres) which both serve Darwin with a reticulated water supply, Groundwater from McMinns Lagoon area can be used to augment supply,

Most other towns and communities including Alice Springs, Tennant Creek, Katherine and Nhulunbuy are supplied from groundwater.

Surface water measurement

The hydrological investigations required in the Northern Territory as part of the National Water Resources Assessment Program are being carried out by the Water Resources Branch. The program for the Northern Territory includes establishment of base streamgauging stations and pluviographs (automatic rainfall recorders). In particular areas of development where water supply or irrigation proposals require special or extra surface water data, supplementary gauging stations are built to obtain this information. At 30 June 1975 the streamgauging network of the Water Resources Branch comprised 241 operating stations; of these 198 were base gauging stations and 43 were supplementary stations. At the same time some 115 pluviographs were being operated by the Water Resources Branch. Other authorities, such as the Commonwealth Scientific and Industrial Research Organization and the Bureau of Meteorology, also maintain streamflow and rainfall recording stations in the Northern Territory.

Irrigation for agricultural purposes in the Territory is not extensive, being confined to isolated locations near the Darwin, Adelaide River, Coomalie Creek, Daly River, Katherine River, Wickham River, Douglas River, Edith River and Alice Springs area, with only small areas being utilised. In the Territory 88 licences to divert water from streams were current at 30 June 1976. The total licensed area for irrigation is 2,536 hectares, but the actual area irrigated is less than this. There are also a number of farms irrigated from bore supplies, particularly in the Alice Springs area. Purposes for which irrigation water is used include the growing of fruit, vegetables, crops, fodder and pastures, and also dairying and mixed farming.

Both the Daly and Adelaide Rivers appear to offer considerable potential for irrigation development with regulation of the rivers. Extensive investigations are being conducted into possible dam sites and areas of land suitable for irrigation in the region, and there is a need for other associated studies. Irrigation trials are in progress using water from the high-production bores in the Daly Basin. Further exploratory drilling in this area is being carried out. There is an increasing demand for water resource assessment studies and assistance for relatively small irrigation projects.

Investigations are continuing into areas of the Northern Territory which may be suitable for irrigation from the main storage on the Ord River in Western Australia.

Australian Capital Territory

The climate of the Australian Capital Territory is such that annual evaporation exceeds the annual rainfall of about 600mm. Primary producers have therefore found it necessary to practise water conservation, and to irrigate from groundwater supplies during dry periods.

Surface water

Surface-water storages supplying the Capital City (pop. about 200,000) and the city of Queanbeyan (pop. about 20,000) are located in the heavily timbered, mountainous, western part of the A.C.T. within the catchment of the Cotter River. Corin, Bendora and Cotter dams serve the two cities, and another storage, Googong dam, is being developed on the Queanbeyan River to the east of the A.C.T.

Ground water

Ground water in the A.C.T. and environs occurs mainly in fractures in crystalline rock such as granite and porphyry; in folded and fractured slate; and in solution cavities in limestone. Alluvial aquifers of significance are restricted to the Lake George basin and small areas along mature sections of the Molonglo and Murrumbidgee Rivers. Groundwater has been used in the past by most primary producers to augment surface storage. Groundwater production bores in the A.C.T. have yields ranging between about 0.4 and 20 cubic metres per hour; 3 cubic metres per hour is about the average yield. However, many farm bores have fallen into disuse as a result of the Government's resumption of virtually all freehold land within the A.C.T., and because of the rapid expansion of urban growth. The Bureau of Mineral Resources has provided a bore-siting, groundwater-quality and yield-prediction service in the A.C.T. since the early 1950's and maintains a network of 48 observation bores which are monitored regularly on a long-term basis. Emphasis has shifted recently from predicting groundwater levels for rural landholders, to trying to establish the ground-water resources that are available for augmenting surface-water supplies for urban purposes. Data are now being collected on groundwater occurrences within the A.C.T. and environs for preparation by the Bureau of a 1:100,000 scale hydrogeologic map.

Many bores have been drilled in the Canberra area for determination of groundwater conditions for specific projects such as dam sites, sewer tunnels, deep foundations for large buildings or for feasibility studies for urban development. These bores are generally monitored for short periods only. Long-term monitoring of water infiltrating from refuse-disposal areas is planned to commence in 1977.

In 1974-75 a total area of 220 hectares was under irrigated culture in the A.C.T. The crop areas were orchards, 6 hectares; vegetables, 44 hectares; nurseries, 2 hectares; lucerne, 75 hectares; cereals, 10 hectares; and pastures accounted for 83 hectares. Of the total area irrigated, 158 hectares was irrigated from surface sources, 51 hectares from bores and 1 hectare from the reticulated water supply.

Control of irrigation and farm water supplies is exercised by the Conservation and Agriculture Branch of the Department of the Capital Territory. The Bureau of Natural Resources of the Department of National Resources provides technical advice on groundwater, and occasionally on run-off, to landholders.

Water conservation on farm holdings was shown to be deficient in the severe 1965-68 drought when stock were moved to areas outside the A.C.T. Improvements by the provision of additional or larger farm dams and of bores have been made in recent years.

CHAPTER 24

FORESTRY

Source of statistics

Statistics relating to total forest area have been derived from data presented to the Forestry and Wood-based Industries Development Conference, Canberra, 1974 by various authorities concerned with forestry administration and by private forestry companies. Other information on forested areas has been provided by the Forestry and Timber Bureau. Statistics of timber and by-products have been compiled from the annual factory collections undertaken by the Statisticians in the several States. Figures of production of gums, resins and tanning barks have been provided by the State forestry authorities. Data of imports and exports of forest products and timber products have been compiled by the Australian Statistician as part of the statistics of overseas trade. The figures shown relate, in general, to years ended 30 June.

Forestry in Australia

Objects of forestry

The main object of forestry authorities is to manage the forests of the country in a manner that will provide maximum benefits, both direct and indirect, for the community. The authorities aim to promote the multiple use concept in management under which forests remain in perpetuity as sources of valuable raw material, areas of natural beauty, sanctuaries for fauna and flora, and areas for scientific investigation and watershed protection. The provision of special protected areas such as forest parks for recreational use and for the conservation of plants and animals is an objective. Forestry also aims at improving existing forests and woodlands by properly controlled harvesting, by protection from such destructive agencies as fire, insects and diseases, and by inducing regeneration. The provision of a partial tree cover on denuded lands where this cover is necessary for protective purposes, and a complete cover when the land is more suited under forest than under other land use are further aims of forestry.

General account of forests and timbers

The area of land in Australia suitable for the production of commercial timber as a primary crop is very small in comparison with the size of the continent. Productive, or potentially productive, forests cover 42.5 million hectares, and of these 99 per cent are natural forests. 35 million hectares of the natural forests are dominated by eucalypts.

Eucalypts. The genus Eucalyptus is remarkable in that it includes some 500 known species, ranging in size from the mighty forest giants, mountain ash (E. regnans) of Victoria and Tasmania, and karri (E. diversicolor) of Western Australia, down to the small mallee species which inhabit vast areas of the inland. The habitats range from the inland plains to the high mountain areas in the Australian Alps, and from areas with the annual rainfall as low as 250 mm to those where it is 4,000 mm. Of the 500 species, only about 100 are used for sawmilling, and not more than 40 of these are exploited extensively.

The better class of eucalypt forest is concentrated mainly in the higher rainfall areas such as the east coast, the highlands of southern New South Wales, Victoria and Tasmania, and the south-western corner of Western Australia. The more important species include blackbutt (E. pilularis), tallowwood (E. microcorys), flooded gum (E. grandis), and red mahogany (E. resinifera) of New South Wales and Queensland; alpine ash (E. delegatensis) of New South Wales, Victoria and Tasmania; mountain ash (E. regnans), messmate (E. obliqua) and blue gum (E. bicostata) of Victoria and Tasmania; and karri (E. diversicolor) of Western Australia. For height and grandeur, mountain ash and karri are unequalled among the broadleaved trees of the world and are excelled only by a few North American coniferous (softwood) species.

In the coastal regions with lower rainfall the eucalypt forests contain many durable species such as the ironbarks, grey gums and bloodwoods of the east coast, and jarrah (*E. marginata*) and tuart (*E. gomphocephala*) of Western Australia. The spotted gum (*E. maculata*) occurring in New South Wales and Queensland is another example.

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Along most of the inland streams and adjacent flood-plains there are riverain forests consisting mainly of river red gum (*E. camaldulensis*), a very durable tree which has supplied large quantities of sawn timber, railway sleepers and fence posts.

Eucalypts also occur in open forest and savannah woodland formations in areas receiving a reliable rainfall of about 250 to 500 mm per annum, as on the goldfields of Western Australia where salmon gum (E. salmonophloia), brown mallet (E. astringens) and wandoo (E. wandoo) occur. These trees are of considerable value for firewood, as mining timbers and for fencing. Minor forest products such as sandalwood, tan bark, essential oils, etc., also come from isolated areas in this type of country, and in the more arid areas.

Other broadleaved timbers (hardwoods). Broadleaved genera other than Eucalpytus cover a com paratively small portion of the forested land in Australia; however, the areas concerned provide a great variety of timbers suitable for a multitude of uses. There are two basic types of forest containing supplies of broadleaved timbers other than eucalypts, namely, the tropical and sub-tropical rainforests of coastal Queensland and New South Wales and the temperate rainforests of southern Victoria and Tasmania, both of which yield species known collectively as rainforest or brushwood species.

The tropical and sub-tropical rainforest along the eastern coast of Australia contains a large number of different species. Tropical rainforest occurs in northern Queensland in the vicinity of Cairns and on the Atherton Tableland, providing such well-known cabinet woods as Queensland maple (Flindersia brayleana), Queensland walnut (Endiandra palmerstonii) and the silky oaks. The sub-tropical rainforest found in southern Queensland and northern New South Wales yields the tulip oak, crab apple (Shizomeria ovata) and white beech (Gmelina leichhardtii). Coachwood (Ceratopetalum apetalum) and sassafras (Doryphora sassafras) occur in regions to the south near Dorrigo and have yielded valuable timber for many years.

Temperate rainforest which is to be seen in southern parts of Victoria and western Tasmania consists mainly of myrtle beech (*Nothofagus cunninghamii*), but produces also southern sassafras (*Atherosperma moschata*) and blackwood (*Acacia melanoxylon*).

Turpentine (Syncarpia glomulifera), an excellent harbour pile timber resistant to marine borer attack, and brush box (Tristania conferta), a superior structural and decking timber, are found in association with some eucalypts in the wetter rainfall areas on the north coast of New South Wales and in Southern Oueensland.

Conifers (Softwoods). One of the most important species of native conifers is white cypress pine (Callitris glauca). The main cypress pine forests of commercial value occur in New South Wales and southern Queensland west of the Great Dividing Range. The trees are comparatively small, but the timber has particular value owing to its durability including resistance to termites. It is suitable for use as scantlings, flooring, linings, weatherboards, poles, and posts. As much of the area originally covered by cypress pine has been cleared for wheat farming and grazing, the production from the remaining State forests is now strictly regulated to ensure a continuous supply.

Another important native conifer is hoop pine (Araucaria cunninghamii), which occurs naturally in the sub-tropical rainforest of southern Queensland and northern New South Wales associated with tulip oak, crab apple, white beech, coachwood, and sassafras. The greater part of the original hoop pine forests has been exploited, but considerable areas have been replanted to this species in Queensland and, to a lesser extent, in New South Wales.

Other native conifers which have played a useful but minor part in the Australian timber industry include bunya and kauri pines (Auracaria bidwillii and Agathis palmerstonii) of Queensland, and celery-top, Huon and King William pines (Phyllocladus asplenifolius, Dacrydium franklinii and Athrotaxis selaginoides) of Tasmania. Kauri pine is found in the tropical rainforest of northern Queensland in association with non-eucalypt broadleaved trees, while bunya pine occurs in the subtropical rainforests. In the temperate rainforests of Tasmania celery-top, Huon and King William pines are found in association with myrtle beech, southern sassafras and blackwood.

Extent of forested areas

Estimates prepared for the Food and Agriculture Organisation World Forestry Inventory, 1970 gave the total area of forests plus other wooded areas as 137.7 million hectares. Resource data prepared for the Forestry and Wood-based Industries Conference, 1974 show the total area of forest as 42.5 million hectares based on a definition of forest which included plantations, native forest with an existing or potential mature height of 20 metres or more, and cypress pine forest in commercial use, regardless of height. The difference between the areas revealed by the two surveys is largely explained by the fact that the definition of 'forest' was changed considerably between the two reference dates. The following tables show classifications of total forest area in Australia by forest type and by ownership.

CLASSIFICATION OF FOREST AREAS BY FOREST TYPE, 30 JUNE 1971

(Source: Forwood Conference, 1974)(a)

('000 hectares)

| Forest type | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--------------------------|-------|--------|---|----------|-------|--------|------|-------|-------|-------|--------|--------|
| Rain forest Eucalypt— | ٠. | | • | 300 | | 1,068 | | | 456 | 37 | | 1,861 |
| Productivity(b) I . | | | | 1,183 | 644 | 212 | | 213 | 457 | | | 2,709 |
| " "II . | | | | (c)3,678 | 4,582 | 1,361 | | 2,777 | 1,838 | | (c) | 14,237 |
| ", "ш. | | | | 8 340 | 559 | 3,382 | | 36 | · | | ``` | 12,325 |
| Tropical eucalypt and | paper | r bark | | | | 4,078 | | | | 2,450 | | 6,528 |
| Cypress pine | ٠. | | | 1,908 | | 1,673 | | | | 777 | | 4,358 |
| Plantations(d) | | | | 107 | 109 | 99 | 88 | 40 | 26 | 1 | 13 | 484 |
| Total forest are | a . | | | 15,524 | 5,895 | 11,874 | 88 | 3,066 | 2,778 | 3,266 | 13 | 42,503 |

⁽a) For further information on data contained in this table, see the Report of Panel 2 (Forest Resources) of the Forestry and Wood-based Industries Development Conference, 1974. (b) Eucalypt forest types have been grouped into three classes in descending order of productivity. (c) Eucalypt forest (probably of Productivity Class II) in the A.C.T. has not been separated from eucalypt forest in N.S.W. (d) As at 31 March 1972

CLASSIFICATION OF FOREST AREAS BY OWNERSHIP, 30 JUNE 1971

(Source: Forwood Conference 1974)

('000 hectares)

| Ownership | | | | 1 | v.s.w. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|---|---|---|------|-------------------------------------|------------------------------|--------------------------------|-------------------|---------------------------|----------------------------|---------------------|------------------|------------------------------------|
| State(a) Other public(b) . National parks(e) Private(f) . | : | : | : | : (e | 2,884 c)6,487 (c)864 5,288 | 2,412 2,755 128 600 | 3,182 6,895 366 1,431 | 70 1 17 | 1,925 416 34 691 | 926 721 122 1,009 | 312 2,639 314 | 13 (d) (d) | 11,725 19,912 1,830 9,036 |
| Total . | | | | | 15,524 | 5,895 | 11,874 | 88 | 3,066 | 2,778 | 3,266 | 13 | 42,503 |

⁽a) Publicly owned land, permanently reserved or dedicated primarily to timber production. (b) Publicly owned land, vacant or occupied under lease, not specifically secured for permanent timber production, but on which control of timber rests with the Crown.

(c) Includes the A.C.T. (d) Areas in this category in the A.C.T. have been included in the New South 'Vales total. (e) Publicly owned land, permanently reserved for purposes other than timber production.

(f) Privately owned land, and leasehold land, where the Crown has no control over timber rights.

Plantations

The indigenous forest of Australia does not contain adequate supplies of coniferous timber, and Australia's requirements have had to be met largely by imports. As a result of the planned policy of the forest services and of several private commercial organisations, the area of coniferous plantations, mainly of exotic species, is steadily increasing. In 1975 the rate of planting was over 35,000 hectares. It was natural that this aspect of forestry should receive earliest attention in South Australia, as this is the State most poorly endowed with natural forest. South Australia now has a large area of planted conifers, and for some years has been obtaining considerable quantities of timber from these plantations. Production is also increasing in other States, and the thinnings from their plantations are already supplying a significant volume of timber. At 31 March 1975, the total area of coniferous plantations was more than 565,000 hectares.

The total production of roundwood from Australia's coniferous plantations is now more than 2.6 million cubic metres per annum and is expected to increase substantially during the next decade.

A special article giving a detailed account of the history and development of coniferous plantations and of the characteristics of individual species is included in Year Book No. 59, page 880.

Broadleaved plantations (mainly *Eucalyptus ssp.*) comprise 33,400 hectares, a much smaller area than for the coniferous plantations. Plantations of ash eucalypts (including *E. delegatensis* and *E. regnans*) for pulpwood in Victoria, and brown mallet (*E. astringens*) for tan bark production in Western Australia make up a substantial proportion of the total broadleaved plantation area. The following tables show total area of plantations in Australia classified by species and by ownership.

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AREA OF PLANTATIONS CLASSIFIED BY SPECIES, 31 MARCH 1975

(Source: Forestry and Timber Bureau)

(Hectares)

| | N.S.W.(a) | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------------------------------------|-------------|---------|-----------------|--------|---|--------|----------|--------|--------------------|
| Coniferous plantations— | | | | | | | | | |
| Pinus radiata | . 114,900 | 119,000 | 2,400 | 87,100 | 23,000 | 35,000 | | 12,900 | 394,400 |
| Pinus pinaster . | | 500 | | 6,000 | 20,400 | • • | • • | • • | 27,000 |
| Pinus elliottii | . (b)12,600 | • • • | 66,300 | • • • | • • | • • • | (-)400 | • • | 78,900 |
| Pinus caribaea Araucaria species . | 1,400 | • • | 7,500 36,800 | • • | • • | • • | (c)400 | • • | 7,900 |
| Callitris intratropica | . 1,400 | •• | • | • • • | •• | •• | (c)1,900 | • • | 38,300 (c)1,900 |
| Other coniferous species | 5,300 | 5,400 | 4,100 | 700 | • | 200 | (0)1,500 | 1,000 | 16,900 |
| Total | . 134,300 | 124,900 | 117,100 | 93,800 | 43,400 | 35,300 | (c)2,300 | 13,900 | \$65,200 |
| Broadleaved plantations- | | | | | | | | | |
| Eucalyptus species . | . 12,200 | 12,600 | (d)2,600 | 1,100 | •• | 900 | • • | • • | 29,300 |
| Populus species . | . 2,000 | 400 | | • • | • • | | • • | • • | 2,500 |
| Other broadleaved specie | s | • • • | 1,600 | • • | •• | • • | • • | • • | 1,600 |
| Total | . 14,200 | 13,000 | 4,200 | 1,100 | | 900 | •• | | 33,400 |
| Grand total . | . 148,500 | 138,000 | 121,400 | 94,900 | 43,400 | 36,200 | (c)2,300 | 13,900 | 598,600 |

⁽a) Private woodlets of less then 40 hectares are not included. (b) Includes some Pinus taeda. (c) As at 31 March 1974. (d) Includes approximately 400 hectares of native cabinet wood species.

AREA OF PLANTATIONS CLASSIFIED BY OWNERSHIP, 31 MARCH 1975

(Source: Forestry and Timber Bureau)

(Hectares)

| Ownership(a) | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|------------|------|---|-----------------------------------|---------------------------|----------------------|---------------------------|-----------------|----------------------|--------------|------------|------------------------------|
| Coniferous plan State Other public Private | tatio | ns— | • | 107,700 600 (b)25,900 | 63,000 3,500 58,400 | 94,200 22,900 | 75,600 1,100 17,100 | 36,700 6,700 | 25,000 10,400 | (c)2,300 | 13,900 | 418,500 5,200 141,400 |
| Total | | | | 134,300 | 124,900 | 117,100 | 93,800 | 43,400 | 35,300 | (c)2,300 | 13,900 | 565,200 |
| Broadleaved pla State Other public Private | intat : | ions | | 6,200 500 (<i>b</i>)7,500 | 5,800 1,300 5,900 | 2,100 2,100 | 1,100 | :: | 400 500 | ··· ··· | | 15,600 1,800 16,000 |
| Total Grand to | tal | | ٠ | <i>14,200</i> 148,500 | 13,000 138,000 | <i>4,200</i> 121,400 | 1,100 94,900 | 43,400 | <i>900</i> 36,200 | (c)2,300 | 13,900 | <i>33,400</i> 598,600 |

⁽a) For definitions of the term 'State', 'Other public' and 'Private', see footnotes (a), (b) and (f) to the table Classification of Forest Areas by Ownership on page 897.

(b) Private woodlets of less than 40 hectares are not included.

(c) As at 31 March 1974.

Commonwealth Government loans to expand softwood plantations

The first steps in the creation of government plantations in Australia were taken in 1870 in South Australia. Planting commenced in 1876 and has continued except for war time interruption ever since. Small plantations were later established in other States, notably Victoria. Planting progressed at a steady rate between the two World Wars. After the Second World War, planting programs were recommenced, but at a rate insufficient to provide Australia's future requirements for softwood.

In February 1965 the Australian Forestry Council recommended that the rate of expansion of softwood timber plantings in Australia should be increased from their existing level of about 16,000 hectares a year to 30,000 hectares a year for the next thirty-five years. The recommendations envisaged a phased increase in the rate of Government plantings by the various State Governments up to a level of some 26,000 hectares per annum together with plantings by the Commonwealth Government in the Territories of 1,000 hectares per annum, and an average of at least 4,000 hectares per annum by private forest owners. The Council considered that such a program would make a major contribution towards meeting Australia's future requirements for softwood products.

In February 1966 the Commonwealth Government endorsed this recommendation and agreed, as a first step towards achieving the proposed annual target of 30,000 hectares, to provide financial assistance to each State, over a five-year period commencing 1 July 1966, to enable them to accelerate their rate of softwood plantings. The assistance, which was provided to the States under section 96 of the Constitution, took the form of long-term loans repayable over twenty-five years with repayments of principal and the payment of interest commencing ten years after the date of each advance.

The Softwoods Forestry Agreements Act 1967 authorised the Commonwealth Government to enter into agreements with each of the States to provide financial assistance by way of loans during the financial years 1966-67 to 1970-71 inclusive.

In February 1969 the Australian Forestry Council recommended a continuation of Federal financial assistance to the States for softwood timber planting for a further five-year period. The resulting Softwood Forestry Agreements Act 1972 authorised the Commonwealth Government to provide financial assistance to the States, by way of loans, during the financial years 1971–72 to 1975–76 inclusive. These loan funds are to be provided on the same terms and conditions as for the first program. Consideration is currently being given to whether the Commonwealth Government should give further financial assistance to the States in a third program.

Payments under the two Acts to all States have been as follows: 1966-67, \$291,000; 1967-68, \$3,456,000; 1968-69, \$3,872,000; 1969-70, \$4,814,000; 1970-71, \$4,784,000; 1971-72, \$389,338; 1972-73, \$9,459,000; 1973-74, \$4,875,000; 1974-75, \$7,124,000; 1975-76, (estimated) \$8,595,000.

Forest administration and research

Forestry and Timber Bureau. The functions of the Forestry and Timber Bureau were laid down in the Forestry and Timber Bureau Act 1930. They included forestry research and education, the study of timber supply, and advice to the Commonwealth Government on forestry matters. Following the transfer of the Australian Forestry School to the Australian National University in 1964 as the Department of Forestry in the University, the research functions of the Bureau were taken over by the Commonwealth Scientific and Industrial Research Organisation (C.S.I.R.O.) on 1 July 1975 as the nucleus of their new Division of Forest Research. The remaining non-research functions of the Bureau, which include policy advice formulation, economic studies and the collection and dissemination of information and statistics on forest resources and industry, are administered by the Department of Primary Industry.

Commonwealth Scientific and Industrial Research Organisation. The newly created Division of Forest Research covers a wide range of studies including the following: forest genetics, controlled environment, forest nutrition, forest botany, tree seeds, forest ecology, forest entomology and pathology, fire protection and watershed management. The Division maintains six regional establishments in the States and the Northern Territory. These research stations are run on a co-operative basis with State forest services and private forest companies or other Government instrumentalities. The Divisions of Building Research and Chemical Technology carry out a wide range of investigations relating to the properties of wood and the uses of wood and wood products. Research on processing logs and timber, solid and composite wood products, timber engineering, and the applications of wood in building is undertaken by the Division of Building Research. The Division of Chemical Technology was created in February 1974 following a reorganisation of the C.S.I.R.O. research effort in which the previous Division of Applied Chemistry ceased to exist as a separate entity. The research program of the new Division of Chemical Technology is directed towards the recycling of resources, utilisation of renewable resources, and the protection and conservation of natural resources. Problems of the pulp and paper industry, and bushfire research are receiving particular attention.

Most of the present forest products activities of both Divisions are conducted at the C.S.I.R.O. Forest Products Laboratory in South Melbourne. The Divisions provide assistance to individuals and industry, administer courses of instruction on timber properties and usage, and maintain cooperative projects with overseas authorities operating in the same fields.

Forestry in the Territories. The management of forests in the Australian Capital Territory is the responsibility of the Forests Branch of the Department of the Capital Territory. Forests in the Northern Territory are under the control of the Forestry Section of the Department of the Northern Territory.

Forestry activities of the States. Forestry on State-owned lands in the various States is the responsibility of the respective State Governments, but they do not exercise any control over forestry activities on private property. The powers and functions of State forest authorities are laid down under forest Acts and Regulations. In each State there is a department or commission to control and manage State forests. Its functions include the introduction of proper measures for the control and management of forest land; the protection of forest land; the conversion, marketing and economic utilisation of forest products; the securing of an adequate and permanent reservation of State forests; and the establishment and maintenance of coniferous forests to remedy the existing deficiency of conifers in Australia. All State forest services are actively engaged on research programs. Annual reports are issued by each State forest authority.

900 FORESTRY

In addition to developing permanent forest reserves in each State, foresters are surveying all forested Crown lands with a view to obtaining dedications of new State forests to add to the permanent forest estate or to release for other uses areas unsuitable for forestry. In the States publicly owned land permanently reserved or dedicated primarily for timber production amounts to 11.7 million hectares, the timber on a further 19.9 million hectares not specifically reserved for permanent timber production being under the control of the Crown.

Private forestry. Privately owned lands contribute considerably to the total production from Australian forests. The most important areas of managed native forest in private ownership are the forests owned by pulp and paper companies. Schemes of financial assistance to individual land owners—designed primarily to encourage establishment and management of coniferous plantations—have been introduced by the Governments of New South Wales and Victoria.

The area of privately owned coniferous plantations is rapidly increasing, and here again the pulp and paper companies are very active. In step with the increase in afforestation programs, the number of professional foresters employed in private forestry enterprise is increasing, while several are engaged on research.

The area of plantations established by private companies and individuals is included in the table on page 898.

Forestry education

The Australian National University's Department of Forestry in Canberra and the School of Forestry of the University of Melbourne offer undergraduate courses leading to a Bachelor of Science degree in forestry. Universities in all States have facilities for post-graduate studies for forestry graduates. Foresters for the Forests Commission of Victoria are trained at a departmental Forestry School at Creswick, Victoria. States other than Victoria offer traineeships to students selected for university training in forestry. These traineeships support the students and meet their expenses throughout the four year university course. Successful graduates are appointed as forestry officers in the State Forest Services. The Commonwealth Government also offers forestry scholarships to cover the cost of university training in forestry for those selected. A limited number of post-graduate scholarships are also available.

The Australian Forestry Council

The Australian Forestry Council comprises the Ministers responsible for forestry in the six State Governments and the Commonwealth Government.

The Council is intended to provide the means for the mutual exchange between the State and Commonwealth Governments of information and views on forestry. It co-ordinates research into problems affecting the establishment, development, management, and fire protection of all forests, and the utilisation of forest products. It assists in co-ordinating the work of State and Commonwealth Governments and also private enterprise in the development of Australian forestry.

The Council is supported by a Standing Committee, consisting of the Director-General of the Forestry and Timber Bureau, the heads of each of the six State Forest Services, the Chief of the Division of Forest Research, C.S.I.R.O., and the Secretary of the Department of the Northern Territory.

Fire protection

The provision of adequate fire protection is one of the main problems facing forest and rural authorities. Government and private forestry organisations are responsible for the protection of about 21 million hectares of forest land, of which a relatively accessible area of 11 million nectares is given a high degree of protection, about 7 million hectares in the more inaccessible areas receive a lesser degree of protection, and about 3 million hectares are at present not protected. Other extensive forest areas consisting mainly of vacant Crown land, but including land under private ownership or leasehold, are either not protected or are given some degree of fire protection by rural fire-fighting organisations or Government-financed fire protection associations.

During the 1973-74 fire season a total of 508 fires were recorded over the area of 21 million hectares of forest land afforded either intensive or extensive protection by forest authorities. The area burnt by these fires totalled 32,000 hectares or 0.2 per cent of the area protected.

The number of fires and the area of native forest burnt during the last ten years is shown in the following table.

NUMBER OF FIRES AND AREA BURNT IN PROTECTED FORESTS(a)

(Source: Forestry and Timber Bureau)

| Percentage of forest area burnt | Forest area burnt | Number of fires | | | Year |
|---------------------------------------|----------------------|--------------------|--|--|---------|
| | '000 | | | | |
| | hectares | | | | |
| 4.1 | 658 | 2,307 | | | 1964-65 |
| 1.2 | 188 | 1,865 | | | 1965-66 |
| 1.0 | 157 | 1,422 | | | 1966–67 |
| 1.9 | 305 | 1,754 | | | 1967-68 |
| 4.7 | 763 | 2,165 | | | 1968-69 |
| 0.3 | 53 | 905 | | | 1969-70 |
| 0.4 | 71 | 1,018 | | | 1970-71 |
| 1.1 | 185 | 1,195 | | | 1971-72 |
| 2.2 | 348 | 1,816 | | | 1972-73 |
| 0.2 | 32 | 508 | | | 1973-74 |

⁽a) The area receiving protection has been taken as the 21 million hectares for which State forest services provide protection.

Very intensive fire protection is afforded to the coniferous plantation area of Australia. This area is increasing rapidly and the annual planting program is now between 25,000 and 30,000 hectares. During the 1973-74 fire season a total of 441 hectares was burnt, representing 0.09 per cent of the area of 493,000 hectares for which fire statistics are available.

The area of coniferous plantations burnt during the past ten years is shown in the following table.

CONIFEROUS PLANTATIONS AREA BURNT AND TOTAL AREA

(Source: Forestry and Timber Bureau)

| Year | | Number of fires | Area burnt | Area of coniferous plantations(a) | Percentage of coniferous area burni |
|---------|------|--------------------|---------------|-----------------------------------|---|
| | | | | '000 | |
| | | | hectares | hectares | |
| 1964-65 | ٠, | ſ | 1,267 | 225 | 0.56 |
| 1965-66 | . } | n.a. ≺ | 615 | 247 | 0.25 |
| 1966-67 | . 1 | i | 187 | 267 | 0.07 |
| 1967-68 | | l l | 117 | 295 | 0.04 |
| 1968-69 | | 39 | 909 | 316 | 0.29 |
| 1969-70 | | 51 | 60 | 354 | 0.02 |
| 197071 | | 40 | 568 | 402 | 0.14 |
| 1971-72 | | 113 | 127 | 429 | 0.03 |
| 1972-73 | | 138 | 326 | 451 | 0.07 |
| 1973-74 | | 100 | 441 | 493 | 0.09 |

⁽a) This area does not include certain privately owned coniferous plantations for which fire statistics are not available.

Detailed information on fire protection is given in Year Book No. 55, 1969, pages 966-7.

Employment in forestry

In the following table details are shown of the number of persons employed by State forestry departments, the Department of the Capital Territory, the Department of the Northern Territory, the Forestry and Timber Bureau in the relevant States and Territories, and the private sector of the forestry industry at 30 June 1975. The table excludes staff of forestry training establishments.

PERSONS EMPLOYED IN FORESTRY(a), 30 JUNE 1975

| Occupational g | гоир | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|------|---|-------|--|---|--|-------------------------------------|------------------------------------|--|----------------------------|-----------------------------------|---|
| Professional st Foresters Others. Field and other Clerical staff Labour(b). Extraction(c) | : | : | staff | 209 90 86 496 1,305 3,486 | 253 60 339 306 1,708 1,096 | 117 106 119 272 1,818 2,450 | 62 26 57 127 396 304 | 63 2 289 79 569 763 | 76 20 215 133 623 2,104 | 13 40 17 83 10 | 43 13 54 58 112 69 | 836 317 1,199 1,488 6,614 10,282 |
| Total | | | | 5,672 | 3,762 | 4,882 | 972 | 1,765 | 3,171 | 163 | 349 | 20,736 |

⁽a) The Forestry and Timber Bureau has provided figures for employment within its own organisation. (b) Staff engaged in silvicultural forest works, etc. (c) Staff engaged in felling, carting, etc. Includes direct employees only.

Log sawmilling and veneer and plywood, etc., manufacturing activities

Selected details of the operations of establishments engaged in log sawmilling and the manufacture of plywood, etc., are set out in the tables below. These details were compiled from the annual census of Manufacturing for 1973-74. For further details of the Manufacturing Census see Chapter 21, Manufacturing Industry.

MANUFACTURING ESTABLISHMENTS—LOG SAWMILLING (A.S.I.C. CLASS 2511)(a) SUMMARY OF OPERATIONS, 1973-74

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|---|----------------------------------|----------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|------------------------|---------------------------------------|
| Employment(h) | No. 414 4,960 000 86,638 ,, 53,616 | 239 3,160 56,822 35,702 | 303 3,394 50,370 29,143 | 36 580 11,794 4,930 | 94 2,151 30,246 20,718 | 148 1,489 24,450 14,130 | (c) (c) (c) | 4 (c) (c) (c) | 1,240 15,960 264,708 160,599 |
| (outlay on fixed tangible assets less disposals). | ,, 3,360 | 3,344 | 1,957 | 492 | 825 | 1,193 | (c) | (c) | 11,305 |

⁽a) Australian Standard Industrial Classification. See page 728. (b) Average over whole year; includes working proprietors. (c) Not available for publication.

MANUFACTURING ESTABLISHMENTS—PLYWOOD, VENEER AND MANUFACTURED BOARDS OF WOOD (A.S.I.C. CLASS 2513)(a): SUMMARY OF OPERATIONS, 1973-74

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|--------------------|--|---------------------------------------|---------------------------------|------------------------|------------------------|-----------------------------|------|--------|----------------------------------|
| Establishments in operation at 30 June | No. \$'000 " | 40 2,931 60,077 28,264 3,259 | 12 883 21,699 9,042 4,425 | 28 2,155 42,483 20,383 | 7 (c) (c) (c) | 3 (c) (c) (c) | 3 401 11,122 5,677 | | :: | 93 7,727 167,349 78,070 |

⁽a) Australian Standard Industrial Classification. See page 728. (b) Average over whole year; includes working proprietors. (c) Not available for publication.

FOREST PRODUCTION

Forest production

FOREST PRODUCTION(a), 1974-75

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|---|--------|--------|--------|--------|--------|--------|------|--------|---------|
| Production of logs for sawing, peeling, slicing or pulping— Broadleaved— Eucalypt and related | | | | | | | | | | |
| | 4m 000' | 2,259 | 1,961 | 455 | 7 | 1,055 | 3,916 | | | 9,653 |
| Rain forest species . | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 122 | · | 206 | | | · | | | 328 |
| Coniferous— Indigenous forest conifers— | | | | | | | | | | |
| Cypress | | 137 | | 184 | | | | | | 321 |
| Other | ,, | | | 47 | | | 11 | | | 58 |
| Plantation grown | | | | | | | | | | |
| conifers | ** | 271 | 828 | 169 | 904 | 129 | 70 | • • | 116 | 2,487 |
| Total | ** | 2,788 | 2,789 | 1,061 | 911 | 1,184 | 3,997 | | 116 | 12,847 |
| Gross value of forest products(b)— | | | | | | | | | | |
| Logs(c) | \$'000 | 38,522 | 42,575 | 18,829 | 13,548 | 12,041 | 46,233 | 6 | 1,080 | 172,833 |
| Other forest products(d). | ,,, | 12,694 | 6,206 | 6,334 | 2,763 | 7,954 | 3,788 | 5 | 63 | 39,806 |
| Total | " | 51,216 | 48,781 | 25,163 | 16,311 | 19,995 | 50,021 | 11 | 1,142 | 212,639 |
| Local value of forest products(e)— | | | | | | | | | | |
| Total | ** | 51,176 | 48,447 | 17,107 | 16,283 | 18,418 | 42,862 | 11 | 1,142 | 195,445 |

⁽a) Excludes some production from private land thought to be relatively small, details of which are not available.
(b) Gross production valued at principal markets. See the chapter Miscellaneous for a more detailed reference to the value of production of forestry, as well as a brief explanation of the terms used. (c) See footnote (c) to the table Forest Production: Australia, below. (d) Includes firewood, sleepers, transoms, griders, bridge timbers, mining timber, poles, piles, charcoal (forest production only), tanning bark, essential oils, eucalyptus leaves, crude rutin. (e) Gross production valued at place of production. See footnote (b) above.

FOREST PRODUCTION(a): AUSTRALIA

| | | | 1970-71 | 1971–72 | 1972–73 | 1973-74 | 1974–75 |
|---|------|---------------------|---------|---------|---------|---------|---------|
| Production of logs for sawing, peel slicing or pulping— | ing, | | | | | | |
| Broadleaved— | | | | | | | |
| Eucalypt and related species | | '000 m ³ | 7,088 | 7,606 | 8,381 | 9,423 | 9,653 |
| Rain forest species | | ,, | 363 | 370 | 396 | 316 | 328 |
| Coniferous— | | ,, | | | | | |
| Indigenous forest conifers— | | | | | | | |
| Cypress | | ,, | 330 | 333 | 350 | 346 | 321 |
| Other | | ,, | 66 | 71 | 80 | 61 | 58 |
| Plantation grown conifers | Ĺ | ,, | 2,058 | 2,057 | 2,272 | 2,287 | 2,487 |
| | | ,, | -, | • | | • | • |
| Total | | ,, | 9,905 | 10,436 | 11,478 | 12,433 | 12,847 |
| Gross value of forest products(b)— | | | | | | | |
| Logs(c) | | \$'000 | 101,645 | 115,257 | 133,964 | 159,397 | 172,833 |
| Other forest products (d) . | | ,,, | 35,523 | 35,921 | 36,610 | 33,946 | 39,806 |
| • | | | | | | | |
| Total | | ,, | 137,168 | 151,177 | 170,574 | 193,344 | 212,639 |
| Local value of forest products(e)— | | | | | | | |
| Total | | ,, | 126,173 | 138,809 | 154,919 | 176,213 | 195,445 |

⁽a) Excludes some production from private land, thought to be relatively small, details of which are not available.
(b) See footnote (b) to the table Forest Production, 1974-75, above.
(c) Included in this category are amounts attributable to sawmillers who carry out their own logging activities as a secondary part of their operations. As such, the values are attributable to the sawmilling industry which is part of manufacturing industry. However, the amount has been included in this table so that the overall value of forest products might be shown. The amount in question was estimated to be \$29.5 million in 1969-70 or 30.5 per cent of the total of \$96.6 million. An estimate of the amount for subsequent years is not available.
(d) Includes freewood, sleepers, transoms, girders, bridge timbers, mining timber, poles piles, charcoal (forest production only), tanning bark, essential oils, eucalyptus leaves, crude rutin.
(e) Gross production valued at place of production. See footnote (b) to the table above.

904 FORESTRY

Timber and timber products

Mill production of timber

Particulars of logs treated and the production of sawn, peeled and sliced timber by sawmills and other woodworking establishments are shown in the following table.

OUTPUT OF AUSTRALIAN-GROWN TIMBER: ALL MILLS(a), 1973-74
('000 cubic metres)

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Aust.(a |
|---|------------|------------|------------|-----------|------------|------------|--------|--------------|
| Sawn, peeled or sliced timber produced from logs— Broadleaved | 859 176 | 681 138 | 275 155 | 10 251 | (b) (b) | (b) (b) | iš | 2,563 773 |
| Total timber produced . | 1,035 | 819 | 430 | 260 | 403 | 374 | 15 | 3,337 |

(a) Includes Northern Territory.

(b) Not available for publication. Included in total.

AUSTRALIAN-GROWN LOGS SAWN AND TIMBER PRODUCED, ALL MILLS AUSTRALIA

('000 cubic metres gross hoppus)(a)

| | - | | | | 1968–69 | 1969–70 | 1971–72 | 1972–73 | 1973–74 |
|---------------------|--------|-------|------|------|---------|---------|---------|---------|---------|
| Logs sawn | | | | | | | | | |
| Broadleaved | | | | | 5,335 | 5,260 | 5,125 | 5,375 | n.a. |
| Coniferous | | | • | • | 1,288 | 1,304 | 1,457 | 1,565 | n.a. |
| Total logs s | awn | | | • | 6,623 | 6,564 | 6,582 | 6,940 | n.a. |
| Sawn, peeled or sli | | imber | prod | uced | | | | | |
| Broadleaved | | | | | 2,620 | 2,672 | 2,584 | 2,561 | 2,563 |
| Coniferous | | | | | 763 | 714 | 782 | 848 | 773 |
| Total timbe | er pro | duced | | | 3,383 | 3,386 | 3,367 | 3,408 | 3,337 |
| | | | | | | | | | |

⁽a) Gross hoppus measure is approximately 78.5 per cent of the true volume.

In addition to the mill production of timber shown in the preceding tables, a large quantity of hewn and round timber, e.g. sleepers, piles, poles, fencing timber, timber used in mining and fuel, is obtained directly from forest and other areas. Information in respect of the value of this output may be found in the tables dealing with forest production on page 903.

Veneers, plywood, etc.

Cutting of timber for the manufacture of veneers, plywood, etc., has been carried out in most States for a number of years. In recent years this has been considerably extended, since plywood manufacture has allowed the use of some species unsuitable for sawing. Special attention has been paid to ensure that logs suitable for peeling are diverted to ply factories.

PLYWOOD PRODUCED: AUSTRALIA ('000 square metres: 1mm basis)

| State | | | | | 1968-69 | 1969–70 | 1971–72 | 1972–73 | 1973-74 |
|-----------------|---|---|---|----------|---------|---------|---------|---------|----------|
| New South Wales | | • | | <u> </u> | 31,452 | 35,062 | 32,080 | 36,047 | 40,290 |
| Queensland . | | | | | 37,781 | 44,420 | 41,110 | 78,124 | ∫ 40,108 |
| Other States . | • | • | • | • | 33,823 | 35,419 | 30,956∫ | 70,124 | ₹ 30,592 |
| Australia | | | | | 103,056 | 114,901 | 104,146 | 114,171 | 110,990 |

Of the total plywood produced in 1973–74, 46,956,072 square metres (mm basis) were classed as 'Commercial', 51,687,250 as 'Waterproof', 4,423,113 as 'Case', and 7,924,018 as 'Sliced fancy'.

During 1973-74, 340.5 million square metres (mm basis) of veneers were produced by the rotary process for the manufacture of plywood. In addition, 6.6 million square metres of sliced veneers were produced.

Manufactured boards

Particle board, resin bonded, amounted to 24,424,299 square metres during 1973-74.

Woodchips

Woodchips are manufactured from sawmill waste and other timber otherwise of little or no commercial value. Their primary use is the production of wood pulp. The recently established woodchip industry in Australia at present produces only for export to Japan, although there are long-term plans for the Australian production and export of wood pulp made from woodchips.

There are four companies, three in Tasmania and one in New South Wales, which operate chipping mills and which have entered into agreements to export woodchips to Japanese pulp mills. The contract covering the export of woodchips from New South Wales, spanning a 20 year period, allows for an annual export of 610,000 tonnes of chips; the total quantity under contract being 3.4 million tonnes. Exports from Tasmania are covered by four contracts, ranging in length from 5½ to 15 years, and involving a total quantity of 22.2 million tonnes. The Tasmanian contracts involve annual shipments ranging from 310,000 to 710,000 tonnes. It is expected that by 1988, these four projects will export a total of 30 million tonnes of woodchips to Japan valued at about \$460 million. All four companies had commenced exports by 1972. Supplies of timber for chipping will come from State and privately owned forest lands, and from sawmill residues.

In addition to the above projects, a 15 year contract has been concluded between a Western Australian company and Japanese paper makers for the supply of up to 760,000 tonnes of woodchips per annum, valued in total at about \$200 million, from Western Australia.

Wood pulp and paper

Wood pulp. During 1973-74 wood pulp production was 616,580 tonnes of chemical, mechanical and other pulp. During the previous year production was 532,492 tonnes.

Paper and paper board. Paper and paper board are manufactured in all States but the greater part of the industry is in New South Wales, Victoria and Tasmania. A wide variety of paper and paper board is produced in Australian mills. The table below gives details of the production of some of the principal items.

PRODUCTION OF PAPER PRODUCTS: AUSTRALIA (tonnes)

| Type of paper | | | 1971–72 | 1972-73 | 1973-74 | 1974–75 |
|----------------------|------|------|---------|---------|---------|---------|
| Newsprint | | | 181,477 | 199,054 | 204,075 | 196,405 |
| Blotting | | | 443 | (a) | (a) | (a) |
| Duplicating | | | 14,594 | (a) | (a) | (a) |
| Printing and writing | | | 126,367 | 138,124 | 173,973 | 159,715 |
| Wrapping | | | 283,949 | 299,891 | 347,745 | 284,911 |
| Paper felts | | | 1,276 | 989 | 844 | 417 |
| Paper boards . | | | 382,033 | 411,246 | 443,905 | 373,639 |

(a) Information not available for publication.

FORESTRY

Imports

IMPORTS OF FOREST PRODUCTS, TIMBER AND TIMBER PRODUCTS AUSTRALIA

| | | Quantity | | | Value (\$'C | 000 f.o.b.) | |
|---|-----------------|------------------------------------|-------------------------------------|----------------------------------|---|---|--|
| | | 1972-73 | 1973-74 | 1974-75 | 1972-73 | 1973-74 | 1974-75 |
| Crude wood, timber and cork- | | | | | | | |
| Wood waste and charcoal | '000 m³ | 103 | 104 | 43 | 13 3,197 | 5,002 | 26 1,777 |
| Railway or tramway sleepers Timber, sawn lengthwise, sliced or peeled, but not further prepared, of a thickness exceeding 5 mm— Conifer— | ** | | •• | 13 | •• | | 1,863 |
| Douglas fir | " " " " " " " " | 467 103 53 10 83 34 | 461 165 50 18 109 27 | 383 66 39 3 86 24 | 25,576 4,269 2,027 1,073 6,229 2,333 | 37,931 10,929 2,551 2,636 13,120 2,236 | 30,097 4,692 2,594 450 9,056 (a)2,066 |
| Total conifer | ,, | 750 | 830 | 784 | 41,507 | 69,403 | 48,955 |
| Non-conifer(b) | ,, | 295 | 380 | 268 | 19,543 | 34,702 | 23,795 |
| Timber (including blocks, strips, etc.), planed, tongued, grooved, rebated, etc., but not further manufactured— Conifer Non-conifer Cork, raw and waste | '000 m³ " | 24 55 | 23 35 | 29 38 | 1,668 2,033 293 | 2,118 4,172 482 | 3,405 4,841 623 |
| Selected items of forest origin, other than crude wood, timber and cork— Tanning extracts of vegetable origin Wood and cork manufactures (except furniture)— Veneers, plywoods, 'improved' or | tonnes | 2,262 | 4,247 | 2,468 | 465 | 971 | 707 |
| reconstituted wood and other wood, worked, n.e.s. Wood manufactures n.e.s. (house- | | | | | 11,622 | 22,629 | 20,892 |
| hold utensils, domestic utensils, building carpentry, etc.) Cork manufactures | | | | | 6,701 1,968 | 10,503 2,827 | 12,027 4,864 |

⁽a) Includes a value of \$5,700 for which no quantity has been included. (b) Total values for this item for 1972-73, 1973-74 and 1974-75 include values of \$212,000, \$100,000, and \$181,000 respectively, for which no quantities have been included.

Exports ${\sf EXPORTS}$ OF AUSTRALIAN FOREST PRODUCTS, TIMBER AND TIMBER PRODUCTS(a) AUSTRALIA

| | | Quantity | | | Value (\$'(| 000 f.o.b.) | |
|---|---------|-----------|-----------|-----------|---------------|---------------|---------------|
| | | 1972-73 | 1973-74 | 1974-75 | 1972-73 | 1973-74 | 1974-75 |
| Crude wood, timber and cork- | | | | | | | |
| Wood waste and charcoal (including | | | | | | | |
| shell and nut charcoal) | '000 mª | | | • • | 3 | 3 | 44 |
| Pulpwood | ** | 'n. | 6 | 45 | | 562 | 1,139 |
| Wood in the rough or roughly squared. | ** | 7 | 7 | 13 | 277 | 607 | 629 |
| Wood, shaped or simply worked— | | 20 | | 20 | 0.400 | | |
| Railway sleepers | " | 30 | 14 | 38 | 2,489 | 1,183 | 3,51 |
| Timber, sawn lengthwise, sliced or peeled, but not further prepared, of | | | | | | | |
| a thickness exceeding 5 mm— | | | | | | | |
| Conifer | | 2 | 1 | 1 | 131 | 192 | 228 |
| Non-conifer—Jarrah | " | 5 | 15 | 4 | 397 | 1.101 | 350 |
| Other | ** | 26 | 26 | 18 | 2,745 | 3,407 | 2,60 |
| Timber (including blocks, strips and | " | | | | 2, | 5,407 | 2,00 |
| friezes for parquet or wood block | | | | | | | |
| flooring, not assembled), planed, | | | | | | | |
| tongued, etc.— | | | | | | | |
| Conifer | ,, | 7 | 2 5 | 1 | 278 | 214 | 216 |
| Non-conifer | 19 | 10 | | 9 | 281 | 845 | 388 |
| Cork, raw and waste | tonnes | 2 | 5 | 5 | 3 | 5 | 12 |
| Selected items of forest origin other than crude wood, timber and cork— Natural gums, resins, gum-resins, | | | | | | | |
| balsam and lacs | ,, | 611 | 345 | 392 | 218 | 155 | 151 |
| Duboisia leaves | ,, | 1.026 | n.a. | n.a. | 915 | 858 | 1,228 |
| Eucalyptus oil | ,, | 118 | 117 | 104 | 194 | 407 | 611 |
| Wood and cork manufactures (except | | | | | | | |
| furniture)— | | | | | | | |
| Veneers, plywood boards, etc | | | | | | | |
| Wood sawn lengthwise, sliced | | | | | | | |
| or peeled, not further pre- | | | | | | | |
| pared, veneer sheets and | | | | | | | |
| sheets for plywood, of a | | | | | | | |
| thickness not exceeding | '000 m³ | 728 | 490 | 271 | 477 | 347 | 235 |
| 5 mm Plywood, blockboard, lamin- | 000 m | 720 | 490 | 2/1 | 4// | 347 | 233 |
| ated wood products, inlaid | | | | | | | |
| wood and marquetry, | | | | | | | |
| cellular wood panels— | | | | | | | |
| Plywood | ,, | 645 | 595 | 387 | 946 | 970 | 1.003 |
| Other | ,, | 91 | 277 | 111 | 68 | 312 | 262 |
| Reconstituted wood, in panels, | ., | | | | | | |
| sheets or strips, and im- | | | | | | | |
| proved wood | | | | | 472 | 488 | 256 |
| Wooden beadings and mould- | | | | | · | | |
| ings | | | | | 72 | 45 | 111 |
| Wood simply shaped or | | | | | 73 | 120 | 32 |
| worked, n.e.s. | | | 2 662 063 | 2 565 614 | 73 | 138 | |
| Wood chips | tonnes | 1,553,334 | 2,663,852 | 2,565,614 | 23,040 925 | 39,748 852 | 46,437 981 |
| Wood manufactures n.e.s. | | • • | • • | • • | 128 | 300 | 433 |
| Cork manufactures n.e.s | | • • | • • | | 140 | 300 | 733 |

⁽a) Excludes re-exports.

CHAPTER 25

FISHERIES

Further information on subjects dealt with in this chapter is contained in the annual statistical bulletins Fisheries (10.8 and 10.9).

Fisheries resources and their commercial exploitation

Fish

Approximately 2,000 species of marine and freshwater fish occur in and around Australia, about forty of which support substantial commercial fisheries. Most fishing is confined to waters over the continental shelf on the populous eastern and south-eastern seaboard, including Tasmania and South Australia, and off the south-western corner of the continent. As in other countries, fisheries in Australia may be divided into estuarine fisheries, located in the tidal waters of rivers and coastal lakes, beaches and bays; pelagic fisheries, which exploit species inhabiting the surface layers of the open ocean; and demersal fisheries, which fish the bottom layers of the sea. Estuarine fisheries produce considerable quantities of mullet (mainly Mugil cephalus), bream (Acanthopagrus spp.) and, in northern Australia, the valuable giant perch (Lates calcarifer). Important freshwater fisheries in New South Wales, Victoria and South Australia include those for Murray cods (Maccullochella spp.), golden perch (Plectroplites ambiguus) and eels (Anguilla australis). Rainbow trout are farmed in Tasmania. Important pelagic fisheries include those for Australian 'salmon' (Arripis trutta), southern bluefin tuna (Thunnus maccoyii), snoek (Leionura atun), mackerel (Scomber amorus), and clupeoids (Sardinops neopilchardus and Engraulis australis). Demersal fisheries include those for snapper (Chrysophrys auratus), whiting (Sillaginidae) and from tropical waters the so called 'cods' (Epinephelus, etc.). Trawl fisheries off New South Wales and Victoria yield species such as flathead (Neoplatycephalus and Trudis spp.), morwong (Nemadactylus spp.) and John Dory (Zeus faber). The previously valuable fishery for edible school and gummy shark (Galeorhinus australis and Mustelus antarcticus) in southeastern Australia declined significantly in the year 1972-73 because of the discovery of a high mercury content in large school shark but production and prices have since risen, although production has not attained its former level. A fishery for clupeoids in the Bass Strait which supplies the raw material for a fish meal plant at Lakes Entrance, Victoria, is the only established 'industrial fishery' in Australia, but several other exploratory purse seine ventures aimed at production of clupeoids and jack mackerel (Trachurus declivis), including a fish meal plant at Triabunna, have been established in south-eastern Australia recently.

Crustaceans

The western and southern rock lobsters (Panulirus longipes cygnus and Jasus novaehollandiae) which are taken on rocky reefs around the southern half of Australia, provide the most valuable fishery in Australia. Prawns (Penaeus and Metapenaeus spp.) are taken in estuarine, coastal and offshore waters of all States except Tasmania. This fishery has grown rapidly in recent years, especially in northern Australia. Bay lobsters (Thenus and Ibacus spp.) are taken incidentally to prawn trawling operations. Crabs (Scylla and Portunus spp.) are taken mainly in Queensland, New South Wales and Western Australia.

Molluscs (edible)

Naturally occurring oysters are harvested in all States; and in New South Wales and Queensland the Sydney rock oyster (Crassostrea commercialis) is cultured commercially. The introduction of the Pacific oyster (Crassostrea gigas) in Tasmania and, recently, South Australia provides a limited supply in those States. Following a serious decline in catches in the scallop (Pecten meridionalis) fishery based on stocks in Port Phillip Bay, Victoria, new offshore beds were located in southern New South Wales, eastern Victoria, northern Tasmania and south-western Western Australia. However, substantial fluctuations in abundance has resulted in erratic variation in production from year to year, and only the Victorian and Tasmanian beds are currently producing. A fishery based on the saucer scallop (Amusium balloti) developed, then declined, in another area of Western Australia, and there is a similar though more stable fishery in Queensland. An important abalone fishery has been developed

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since 1964 in south-east Australia with Tasmania, Victoria and South Australia providing the bulk of the catch. Mussels (*Mytilus planulatus*) are harvested in Victoria, and a fishery for squid developed in the Derwent River estuary at Hobart in 1972–73. Other small quantities of cephalopods, mainly squid, are produced in many localities.

Pearl-shell and trochus-shell

The shell of the Australian species of pearl oyster (*Pinctada maxima*) is taken from various localities in the tropical waters of Australia from Broome in Western Australia to Cairns in Queensland for the manufacture of buttons, knife handles, etc. Live pearl-shell is used for pearl culture, *Pinctada maxima* being capable of producing pearls which are the largest in the world and which command top market prices. Trochus-shell is found mainly on coral reefs off the Queensland coast, although small quantities occur in Western Australia.

Whales

The Australian whaling industry formerly exploited the baleen (humpback) whales during their winter migrations along the east and west coasts of Australia. However, owing to the total prohibition placed on their capture by the International Whaling Commission in 1963, Australian whaling is now confined to the sperm whale (*Physeter catodon*) which has been taken in the southern waters of Western Australia since 1955. Processing operations were carried out by several shore stations, but now only one station at Albany, Western Australia, is still operating.

General

A map showing Australia's principal ports and generalised localities of the fishery resources under exploitation appears on plate 56, page 912. Detailed information on the history of the development of fisheries industries in Australia is given in Year Book No. 55, pages 976-7.

Fisheries administration and research

The Constitution of the Commonwealth (Section 51 (x)) assigns to the Commonwealth Government power to legislate for fisheries in Australian waters beyond territorial limits, the residual power in respect of waters within territorial limits (including inland waters) resting with the States. The Commonwealth Government has made similar arrangements for each of its Territories. Each State and Territory has legislation regulating fisheries in waters within its jurisdiction. Persons taking fish for sale, and their boats, are required to be licensed, and provision is made for management of the fisheries.

The Commonwealth Government laws regulating the fisheries are the Fisheries Act 1952, the Continental Shelf (Living Natural Resources) Act 1968 and the Whaling Act 1960. Each of these applies in accordance with the Commonwealth Government's fishery power under the Constitution.

Fisheries Act

This Act requires persons engaging in fishing and boats used for fishing to be licensed and their equipment for taking fish to be registered if the purpose of the fishing is commercial. It also provides for management and conservation of the fisheries. The Act applies to Australian residents and their boats in waters proclaimed under the Act and, since 1968, to foreign boats and their crews in the zone of waters extending 12 miles from the baselines of the territorial sea but excluding waters within territorial limits, where State law applies.

Continental Shelf (Living Natural Resources) Act

This Act implements in Australian law the sovereign rights, conferred on Australia in respect of the organisms belonging to sedentary species (that is, organisms which, at the harvestable stage, either are immobile on or under the seabed, or are unable to move except in constant physical contact with the seabed or the subsoil) on the continental shelf. The continental shelf comprises the seabed and subsoil of the submarine areas adjacent to the coast but outside the territorial sea to a depth of 200 metres, or beyond that depth where the depth of the superjacent waters admits of the exploitation of the natural resources of the area, by the Convention on the Continental Shelf, Geneva, 1958. The Act requires the licensing of persons searching for and taking sedentary organisms, of boats used to search for and take sedentary organisms, and of persons employing divers, trial divers and divers' tenders in taking sedentary organisms, if such activities are carried out in controlled areas of the continental shelf of Australia or the Territories for a commercial purpose. Provision is made for proclamation of sedentary organisms to which the Act applies, for the establishment of controlled areas of continental shelf in respect of specified sedentary organisms, and for the management and conservation of sedentary organisms in controlled areas (the last of these applying to all persons whether the purpose of the taking of the sedentary organism was commercial or not). The Act applies to all persons including foreigners, and to all boats including foreign boats.

Whaling Act

This Act implements in Australian law the obligations imposed on Australia by virtue of our adherence to the International Convention for the Regulation of Whaling, Washington, 1946. The Act requires the licensing of factories engaged in treating whales and of ships (and aircraft) used for taking whales. It also provides for the management and conservation of whale stocks.

Administration

Australian fisheries are administered by the authority having jurisdiction over the waters concerned. In inland waters and in waters within territorial limits, administration is the responsibility of the State or Territory fisheries authority. In proclaimed waters, and on the continental shelf beyond territorial limits, administration is the responsibility of the Commonwealth Government which, by agreement, has delegated to State fisheries authorities the necessary authorities for day-to-day administration of the Acts.

The administration of the fisheries is directed to a number of objectives, of which the two most important are conservation of the living resources in order to ensure their ability to sustain a maximum yield consistent with economy in their exploitation, and the orderly conduct of the fishing industry. Fishery resources are common property and apart from fisheries such as those for rock lobster and abalone, where the numbers of boats and the quantities of fishing gear are controlled, the only other restrictions on the entry of boats into the Australian fishing industry are those relating to foreigners, and to processing and carrying boats in the northern prawn fishery. Management measures have been introduced in several fisheries to provide controls such as minimum sizes, closed areas, closed seasons and regulation of the types of fishing gear that may be used.

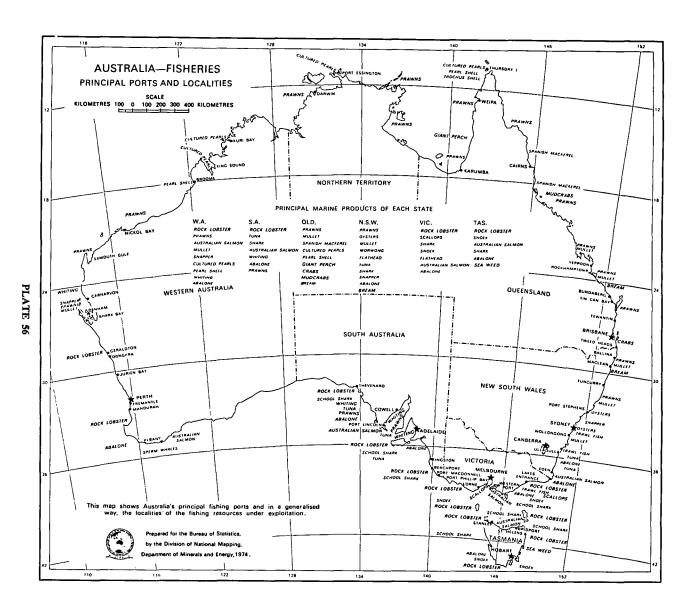
The Fisheries Development Trust Account (established under the Fishing Industry Act 1956) and the Fishing Industry Research Trust Account (established under the Fishing Industry Research Act 1969) are available to support financially, projects of kinds consistent with the purposes of those Acts for the development and management of the fisheries and fishing industry. The former is supported by the proceeds of the sale of the assets of the Australian Whaling Commission. The latter is a matching fund into which is paid each year an appropriation from Commonwealth Government Revenue equal to amounts collected from the fishing industry by the State Fisheries Authorities and expended by the States for the same purposes.

Research

The main aim of fisheries research in Australia is to provide a background of biological, technical and economic information which will provide guidance for the efficient and rational utilisation of fisheries resources. To this end much of the research already undertaken has been directed at formulating recommendations for management of various fisheries. Research work is also carried out which is expected to lead to the development of new fisheries, the expansion of under-exploited fisheries, greater economy in operations and the use of more efficient equipment and methods.

Organisations in Australia at present engaged in research into fisheries matters are:

- (i) C.S.I.R.O. Division of Fisheries and Oceanography, with its headquarters and main laboratory at Cronulla, N.S.W. (fisheries science and oceanography);
- (ii) C.S.I.R.O. Division of Food Research; main laboratories located at Ryde, N.S.W. (handling, storage, processing and transportation of fish);
- (iii) State fisheries departments (fisheries laboratories have been established in Perth, Hobart, Melbourne, Sydney and Brisbane; research vessels are operated by New South Wales, Victoria, Western Australia and Tasmania; the Department of the Northern Territory has a small scientific section at Nhulunbuy);
- (iv) Fisheries Division, Department of Primary Industry, Canberra (economic and management research, gear technology, extension and education service); and
- (v) private fishing companies (surveys of fisheries resources, research into handling and processing).



Collection and presentation of fisheries statistics

Source and basis of statistics

Statistics presented in this chapter have been collected by a number of authorities. The various State fisheries authorities have supplied, through the Deputy Commonwealth Statisticians in the States, the details of employment, boats, equipment, and production of the general fisheries. The Fisheries division of the Department of Primary Industry has supplied particulars of the whaling industry and pearl-shell fishery. Statistics of the processing of general fisheries products and of overseas trade in the products of fishing and whaling have been compiled in the Australian Bureau of Statistics.

The statistics refer, in general, to financial years. However, statistics of pearl and trochus shell fishing, pearl culture operations and whaling refer to the season ended in the calendar year shown. For convenience of presentation, statistics of production of pearl and trochus shell have been assigned to financial years in the tables which follow. All overseas trade information refers to financial years.

In the preparation of Australian fisheries production statistics the quantities of individual products are generally in terms of the form in which they are taken from the water. For example, the statistics of fish production published in this chapter are in terms of 'estimated live weights' which are calculated from landed weights by using conversion factors for each species in each State. These conversion factors allow for the fact that the quantities of fish reported are frequently in a gutted, headed and gutted, or otherwise reduced condition. Crustaceans are reported on an 'estimated live weight' basis and molluscs (edible) on a 'gross (in-shell) weight' basis. The figures of pearl-shell and trochus-shell refer to the actual quantities of dry shell for sale and exclude the weight of the fish.

Boats and equipment used in fisheries

Fish, crustaceans and molluscs (edible)

The boats used for the estuarine fisheries are mostly small vessels, propelled by diesel or petrol engines of low power. The offshore vessels range up to 40 metres in length and are almost invariably powered by diesel engines. Most of them have either insulated holds and carry ice, or are equipped with dry or brine refrigeration. Some rock lobster vessels are fitted with wells in which the catch is kept alive. About 25 per cent of the vessels registered in Australia for commercial fishing are over 10 metres in length. Recently, a number of well equipped, double rigged, prawn trawlers of 20 metres to 25 metres in length with large refrigeration capacity have been built for the rapidly developing northern prawn fisheries.

The following are the types of equipment most commonly used in the main fisheries: mullet, beach seine, gill net; shark (edible), long-lines, gill net; Australian salmon, beach seine; snoek, trolling lines; flathead, Danish seine, otter trawl; snapper, long-lines, traps, gill net, hand-line; morwong, Danish seine, otter trawl, traps; whiting, handlines, Danish seine, beach seine, gill net; garfish, beach seine; mackerel, trolling lines; tuna, pole and live-bait, trolling lines (lampara nets and purse seines are used for taking live bait for tuna); prawns, otter trawl, beam trawl, beach seine net; rock lobster, pots, traps; scallops, dredge, otter trawl; abalone, diving using hookah gear; and pilchards, anchovies, jack mackerel and striped tuna, purse seine.

Pearls, pearl-shell and trochus-shell

Ketch-rigged luggers about 15 metres long which carry crews of eight to fourteen members are used for pearl-shell fishing in northern Australia.

Whaling

The whaling industry is highly mechanised. Standard equipment includes aircraft to locate whales, diesel-powered catchers of about 30 to 40 metres in length, and tow boats.

Boats and equipment employed by industry

The following two tables show details of boats and equipment engaged in the taking of fish, crustaceans and edible molluscs, pearl-shell and trochus-shell, and the number of chasers and stations engaged in whaling operations. The reservations mentioned below regarding the use of employment information are also applicable to these tables. Boats engaged in more than one industry are classified to their main activity.

FISHERIES: BOATS AND EQUIPMENT; WHALING STATIONS, 1974-75

| | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|---|---------------|-----------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|----------------------|
| General fisheries— Boats Value of boats and equipment | No. \$'000 | 2,209 20,541 | 772 11,103 | 2,447 44,847 | 1,824 36,601 | 1,588 37,672 | 616 14,086 | 194 24,027 | 9,650 188,877 |
| Edible oyster fisheries— Boats Value of boats and equipment | No. \$'000 | 1,812 4,469 | | n.a. n.a. | 1 1 | 5 6 | n.a. n.a. | | (a)1,818 (a)4,476 |
| Pearl-shell and trochus-shell—Boats(b) | No. | | | 7 | | 10 | | 3 | 20 |
| Whaling(b)— Chasers Stations operating | No. | :: | :: | :: | :: | 3 1 | •• | •• | 3 1 |

(a) Incomplete: see individual States.

(b) Source: Commonwealth Department of Primary Industry.

FISHERIES: BOATS AND EQUIPMENT, WHALING STATIONS, AUSTRALIA

| | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|---------------------------------|---|--------|----------|-----------|----------|----------|---------|
| General fisheries— | | | | | | | |
| Boats | | No. | 9,322 | 9,591 | 10,760 | 10,532 | 9,650 |
| Value of boats and equipment. | | \$'000 | 79,711 | (a)80,097 | 114,188 | 141.819 | 188,877 |
| Edible oyster fisheries— | | • | • | ` , | • | , | |
| Boats | | No. | (b)1,829 | (b)1,884 | (c)1,710 | (b)1,899 | 1,818 |
| Value of boats and equipment(c) | | \$'000 | 1,844 | 2,843 | 3,734 | 4,133 | 4,476 |
| Pearl-shell and trochus-shell— | | * | , | _, | -, | ., | ., |
| Boats(d) | | No. | 28 | 23 | 17 | 21 | 20 |
| Whaling(d)— | • | | | | | | |
| Chasers | | No. | 3 | 3 | 3 | 3 | 3 |
| Stations operating | • | ,, | 1 | 1 | 1 | 1 | 1 |

(a) Incomplete; excludes South Australia. (b) Incomplete; excludes Tasmania. and Tasmania. (d) Source: Commonwealth Department of Primary Industry.

(c) Incomplete; excludes Queensland

Employment in fisheries

Classification of registered commercial fishermen by industry

The following two tables are derived mainly from the licensing records of the various State fisheries authorities. Because the definitions and licensing procedures used by these authorities are not uniform the statistics should not be used to compare the relative productivities of fishing industries in the various States. Persons engaged in more than one industry are classified according to their main activity, and so may be classified differently from one year to the next.

PERSONS EMPLOYED ON FISHING BOATS, 1974-75(a)

| Industry | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|--|----------------|-------|---------------|------------|------------|---------------|------|-----------------------------|
| General fisheries Edible oyster fisheries . Pearl-shell and trochus- | 3,224 1,434 | 1,533 | 5,054 n.a. | 3,007 6 | 3,241 4 | 1,343 n.a. | 638 | 18,040 (<i>b</i>)1,444 |
| $\mathrm{shell}(c)$ | • • | •• | 94 | • • | 90 | •• | 22 | 206 |
| Whaling(c)— At sea | | | •• | | 51 | | •• | 51 |

⁽a) For all States except Western Australia, the figures for general fisheries refer to number of persons (including skippers) reported as usually employed on boats. Persons reported as usually employed on more than one boat for a particular year are counted more than once for that year. For Western Australia, the figure for general fisheries refers to number of licensed commercial fisheries.

(c) Source: Commonwealth Department of Primary Industry.

PERSONS EMPLOYED ON FISHING BOATS: AUSTRALIA(a)

| Industry | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974–75 |
|--|---|---|---------------------------|------------------------------------|---------------------------|---------------------------|------------------------------------|
| General fisheries(b). Edible oyster fisheries Pearl-shell and trochus-shell(e) | • | • | 16,279 (c)1,596 416 | 17,594 (<i>d</i>)1,402 287 | 19,208 (d)1,318 233 | 19,072 (c)1,620 193 | 18,040 (<i>d</i>)1,444 206 |
| Whaling(e)— At sea | | | 51 | 51 | 51 | 56 | 51 |

⁽a) See foonote (a) to the table 'Persons Employed on Fishing Boats, 1974-75' previous page. (b) A break in comparability of figures in this series occurred in 1971-72, due to a change in basis of counting in South Australia. (c) Incomplete; figure for Tasmania is not available. (d) Incomplete: excludes Queensland and Tasmania. (e) Source. Commonwealth Department of Primary Industry.

Production, processing and domestic marketing of fisheries products

Value of fisheries production

The following table shows the gross value and local value of fishing and whaling production by States. Because the value of materials used in the course of production is not available for all States it is not possible to show a comparison of net values. (See also the chapter Miscellaneous for an explanation of the value terms used.)

FISHERIES: GROSS AND LOCAL VALUE OF PRODUCTION (\$000)

| | | | | | | | <u> </u> | | | | |
|---------|---|---|---|--------|--------|-----------|-----------|--------|-------|---------|-------------------|
| Year | | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust |
| | | | | | C | GROSS V | ALUE | | | | |
| 1970–71 | | | | 15,329 | 7,310 | 10,985 | 9,236 | 25,127 | 5,116 | 4,132 | 77,235 |
| 1971-72 | | | | 18,970 | 9,507 | 11,382 | 12,380 | 30,817 | 5,929 | 2,793 | 91,776 |
| 1972–73 | | • | | 21,165 | | (a)13,375 | 15,759 | 28,158 | 5,739 | | a)100,281 |
| 1973–74 | • | | • | 20,974 | | (b)15,196 | 17,442 | 30,494 | 7,014 | | <i>b</i>)108,602 |
| 1974–75 | • | • | ٠ | 24,609 | 10,684 | (a)12,606 | (c)14,083 | 35,130 | 6,928 | 3,736(a | c)107,775 |
| | | | | | LO | CAL VA | LUE(d) | | | | |
| 1970-71 | | | | 13,224 | 6,462 | 10,458 | 8,177 | 25,028 | 5,116 | 4,132 | 72,596 |
| 1971-72 | | | | 16,323 | 8,855 | 10,764 | 11,027 | 30,625 | 5,929 | 2,793 | 86,315 |
| 1972-73 | | | | 16,898 | 10,646 | 12,686 | 13,969 | 28,000 | 5,739 | 4,617 | 92,555 |
| 1973-74 | | | | 16,568 | 8,682 | 14,387 | 15,433 | 30,313 | 7,014 | 6,587 | 98,984 |
| 1974–75 | | | | 21,569 | 8,550 | 11,732 | 12,496 | 34,785 | 6,928 | 3,736 | 99,796 |
| | | | | | | | | | | | |

⁽a) Incomplete; excludes oysters in Queensland. (c) Incomplete; excludes oysters in South Australia.

⁽b) Incomplete; excludes oysters and rock lobster in Queensland. (d) Local value is gross value less marketing costs.

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Production of selected fisheries

SELECTED FISHERIES PRODUCTS: PRODUCTION AND GROSS VALUE 1974-75

| Product | | | | ^ | V.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|--|---|---|------|---|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------------|-------------------------|------------------------------|---|
| | | | | | | QUA | YTITY | | | | | |
| Fish(a) Crustaceans(a) Molluscs (edible)(a) Pearl-shell(e) | : | : | tonr | , | 21,826 2,459 9,492 | 9,445 387 9,084 | (b)5,971 4,951 (c)1,603 (f) | 9,309 4,529 (c)980 | 7,222 12,274 439 (f) | 2,870 1,525 3,480 | 781 2,077 (<i>j</i>) | 57,423 28,201 (d)25,079 (g)246.7 |
| | | | | | GRO | OSS VA | LUE (\$'0 | 000) | | | | |
| Fish Crustaceans Molluscs (edible) Pearl-sheil(e) | : | : | : | : | 12,119 5,877 6,613 | 4,973 1,125 4,586 | (b)4,100 7,314 (c)415 (f) | 4,860 8,562 (c)661 | 2,549 24,558 377 (f) | 768 3,476 2,683 | 613 3,112 (/) | |

⁽a) Estimated live weight. (b) Excludes freshwater fish, particulars of which are not available. (c) Incomplete; exludes oysters. (d) Incomplete; see individual States. (e) Source: Commonwealth Department of Primary Industry. (f) Not available for publication. (g) Excludes manufacturing shell produced from pearl culture operations.

SELECTED FISHERIES PRODUCTS: PRODUCTION, AND GROSS VALUE AUSTRALIA

| Product | | | | | | 1970–71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|---------------------------|---|---|---|------|-----|----------|----------|-----------|--------------|-----------|
| | _ | | | | | QUANTIT | Y | | | |
| Fish(a)(b) . | | | | tonn | nes | 51,632 | 57,002 | 59,263 | | 57,423 |
| Crustaceans(a) | | | | ,, | | 32,273 | 31,313 | | (c)(d)36,827 | 28,201 |
| Molluscs (edible)(a |) | | | ,, | | 27,672 | 29,479 | (e)33,089 | | (f)25,079 |
| Pearl-shell $(g)(h)$ | | | | ,, | | 365.6 | 314.5 | 223.8 | **** | 246.7 |
| Trochus-shell(g) | • | • | • | ,, | | 25.5 | 0.7 | 1.1 | 2.5 | 21.4 |
| | | | | | GRO | SS VALUE | (\$'000) | | | |
| Fish(b) | | | | | | 15,348 | 18,633 | 23,329 | 26,334 | 29,983 |
| Crustaceans . | | | | | | 46,385 | 53,595 | (c)53,781 | (c)(d)60,101 | 54,023 |
| Molluscs (edible) | | | | | | 11,466 | 14,581 | (e)17,891 | (e)15,848 | (f)15,335 |
| Pearl-shell(g)(h) | | | | | | 275 | 245 | 203 | | 218 |
| Trochus-shell(g) | • | • | • | • | • | 4 | •• | | | . 8 |

⁽a) Estimated live weight. (b) Excludes freshwater fish caught in Queensland. (c) Excludes freshwater crayfish and crabs in Victoria. (d) Excludes rock lobster in Queensland. (e) Incomplete; excludes oysters in Queensland, and includes only abalone and scallops in Victoria. (f) Incomplete; excludes oysters in Queensland and South Australia. (g) Source Commonwealth Department of Primary Industry. (h) Excludes manufacturing shell produced from pearl culture operations.

Fish

FISH: PRODUCTION, BY TYPE, 1974-75 (tonnes estimated live weight)

| Туре | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust |
|-------------------|------|----------|-------|----------|-------|-------|-------|------|-----------|
| Tuna | | (a)5,277 | 89 | 28 | 4,842 | 710 | 135 | | 11,082 |
| Mackerel | | `´´ 54 | 6 | 1,139 | | 98 | 3 | 15 | 1,315 |
| Snoek | | 46 | 1,198 | · | 1 | | 760 | | 2,005 |
| Mullet | | 2,806 | 380 | 1,543 | 252 | 1,001 | 5 | 10 | 5,999 |
| Bream (including | Таг- | -, | | -,- | | • | | | -, |
| whine) | | 317 | 471 | 275 | 23 | 26 | | 1 | 1,112 |
| Australian salmon | | 1,382 | 673 | | 873 | 1,619 | 631 | | 5,178 |
| Ruff | | · | 14 | | 211 | 794 | | | 1,019 |
| Snapper | | 1,088 | 277 | 118 | 284 | 424 | | | 2,190 |
| Morwong | | 1,344 | 44 | | 1 | 12 | 14 | | 1,415 |
| Whiting | | 162 | 477 | 389 | 977 | 262 | 1 | | 2,268 |
| Flathead | - | 1,816 | 869 | 111 | 15 | 15 | 23 | | 2,848 |
| Shark | - | 1,123 | 1.946 | 39 | 459 | 554 | 651 | i | 4,773 |
| Leatheriacket . | | 499 | 2 | | 7 | 20 | | | 528 |
| Other | · | 5,911 | 3,000 | (b)2,328 | 1,364 | 1,688 | 647 | 753 | (b)15,690 |
| Total . | | 21,826 | 9,445 | (b)5,971 | 9,309 | 7,222 | 2,870 | 781 | (b)57,423 |

(a) Source: C.S.I.R.O.

(b) Incomplete; excludes freshwater species in Queensland.

GROSS VALUE OF FISH, BY PRINCIPAL TYPES, 1974-75 (\$'000)

| Туре | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust |
|-------------------|------|--------|-------|----------|-------|-------|-----------|-------|----------------------|
| Tuna | | 1,583 | 52 | 6 | 1,482 | 198 | 27 | | 3,349 |
| Mackerel | | 37 | 2 | 836 | ٠ | 55 | 1 | 10 | 941 |
| Snoek | | 55 | 310 | | | | 86 | | 452 |
| Mullet | | 973 | 95 | 583 | 81 | 336 | 1 | 6 | 2,076 |
| Bream (including | Tar- | | | | | | | | , |
| whine) | | 357 | 179 | 176 | 20 | 17 | | 1 | 749 |
| Australian salmon | | 229 | 309 | • • • | 179 | 224 | 124 | | 1,065 |
| Ruff | | | 5 | • • • | 38 | 111 | | | 154 |
| Snapper | | 1,925 | 382 | 129 | 201 | 224 | | | 2,860 |
| Morwong | | 915 | 18 | | | 3 | 4 | | 941 |
| Whiting | | 280 | 486 | 388 | 1,876 | 159 | (a) | | (a)3,190 |
| Flathead | | 1,155 | 385 | 75 | 3 | 5 | 7 | | 1,630 |
| Shark | • | 339 | 1.398 | 7 | 289 | 279 | 327 | | 2,640 |
| Leatherjacket . | • | 322 | 1 | | 3 | 7.7 | | | 333 |
| Other | : | 3,948 | 1,350 | (b)1,900 | 688 | 932 | (a)(c)191 | | (a)(c)9,605 |
| Total fish . | | 12,119 | 4,973 | (b)4,100 | 4,860 | 2,549 | (c)768 | 613 (| b)(c) 29,98 3 |

⁽a) Value of whiting in Tasmania is not available separately and is included in 'Other'. (b) Incomplete; excludes freshwater species in Queensland. (c) Includes value of seaweed in Tasmania.

FISHERIES

FISH: PRODUCTION, BY TYPE, AUSTRALIA

(tonnes estimated live weight)

| Туре | | | | | | 1970–71 | 1971–72 | 1972-73 | 1973–74 | 1974–75 |
|--------------|-------|------|-------|---|---|---------|---------|-----------------|--------------|---------|
| Tuna(a) | | | | | | 6,802 | 10,237 | (b)13,422 | (b)(c)9,700 | 11,082 |
| Mackerel | | | | | | 903 | 900 | (b)(d)1,355 | (b)(c)1,291 | 1,315 |
| Snoek . | | | | | | 2,951 | 2,245 | (b)(d)918 | (b)708 | 2,005 |
| Mullet . | | | | | | 5,527 | 4,705 | (b)5,316 | (b)6,071 | 5,999 |
| Bream (inclu | iding | Tarw | hine) | | | 945 | 815 | (<i>b</i>)568 | (b)704 | 1,112 |
| Australian s | | | | • | | 3,463 | 5,246 | (b)3,482 | (b)4,513 | 5,178 |
| Ruff . | | - | | | | 834 | 1,220 | (b)1,449 | (b)1,161 | 1,019 |
| Snapper | | | | • | | 1,710 | 1,770 | (b)1,678 | (b)1,691 | 2,190 |
| Morwong | | | | | | 1.029 | 1,179 | (b)1,330 | (b)1,342 | 1,415 |
| Whiting. | | - | | • | | 1,859 | 1,852 | (b)1,730 | (b)1,762 | 2,268 |
| Flathead | | · | | | | 2,341 | 2,390 | (b)1,707 | (b)1,645 | 2,848 |
| Shark . | | | | | | 7,314 | 7,310 | (b)2,897 | (b)4,233 | 4,773 |
| Leatherjacke | t | | | | | 946 | 879 | (b)1,313 | (b)1,642 | 528 |
| Other . | • | • | • | | • | 15,007 | 16,253 | (b)(d)11,330 | (b)(c)19,748 | 15,690 |
| Total | | | | | | 51,632 | 57,002 | 59,263 | 65,747 | 57,423 |

⁽a) Includes estimate by C.S.I.R.O. for New South Wales.
(b) Incomplete; excludes Victoria figure which is not available for publication.
(c) Tasmanian figures for tuna and mackerel are not available for publication and have been included in 'Other'.
(d) New South Wales figures for mackerel and snoek are not available separately, and have been included in 'Other'.

Crustaceans

CRUSTACEANS: PRODUCTION, BY TYPE, 1974-75 (tonnes estimated live weight)

| Туре | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|------------------------------|---|---|--------------|---------------------------------------|--------------|-------------|-------------|-------|---------------------|---------------|
| Murray crayfish Yabbies . | | : | 23 31 | · · · · · · · · · · · · · · · · · · · | •• | 127 | •• | •• | •• | 23 161 |
| Rock lobster Bay lobster | : | : | 139 12 | 310 | 70 34 | 1,862 | 8,306{ | 1,525 | $\cdot \frac{7}{7}$ | 12,265 |
| Prawns . Crabs . | : | : | 2,075 178 | 64 11 | 4,414 433 | 2,530 10 | 3,898 70 | •• | 2,060 10 | 15,041 712 |
| Total | | | 2,459 | 387 | 4,951 | 4,529 | 12,274 | 1,525 | 2,077 | 28,201 |

CRUSTACEANS: PRODUCTION, BY TYPE, AUSTRALIA (tonnes live weight)

| Туре | | | | | | 1970–71 | 1971–72 | 1972-73 | 1973–74 | 1974–75 |
|-----------------------------|----|---|---|---|-----|---------------|---------------|------------------|------------------|---------------|
| Murray crayfis Yabbies. | sh | | | | :} | 94 | 136 | (a)113 | (a)295{ | 23 161 |
| Rock lobster Bay lobster | | ٠ | | • | .} | 12,950 | 13,085 | 13,005 | (b)11,830 | 12,265 |
| Prawns . | | : | : | : | . J | 18,752 477 | 17,519 573 | 16,466 (a)647 | 24,000 (a)702 | 15,041 712 |
| Total . | • | | | | | 32,273 | 31,313 | (c)30,230 | (c)36,827 | 28,201 |

⁽a) Excludes Victorian figure, which is not available for publication. (b) Excludes rock lobster in Queensland. (c) Incomplete; see footnotes to figures for individual species.

Molluscs (edible)

MOLLUSCS: PRODUCTION, BY TYPE, 1974-75 (tonnes estimated live weight)

| Туре | | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|----------|----|---|------------|-------|----------|--------|------|-------|------|-----------|
| Octopus | | | | 20 | | | 1 | | | 20 |
| Squid | | | | 52 | 106 | 36 | 12 | 6 | | 212 |
| Oysters | | | 8,787 | | n.a. | n.a. | 16 | 105 | | (a)8,908 |
| Mussels | | | 92 | 5 | | | 3 | | | 100 |
| Pipi . | | | | | | 193 | | | | 193 |
| Scallops | | | | 6,840 | 1,497 | 143 | 151 | 1,261 | | 9,892 |
| Abalone | • | • | 613 | 2,168 | | 608 | 256 | 2,108 | | 5,753 |
| Tot | al | | 9,492 | 9,084 | (b)1,603 | (b)981 | 439 | 3,480 | | (a)25,079 |

(a) Incomplete; see individual States.

MOLLUSCS: PRODUCTION, BY TYPE, AUSTRALIA (tonnes estimated live weight)

| Туре | | | | | 1970–71 | 1971-72 | 1972–73 | 1973–74 | 1974-75 |
|------------|---|---|---|---|---------|---------|------------------------|-----------|-------------|
| Octopus | | | | | 86 | 65 | (a)40 \ | ر برده (| 20 |
| Squid . | | | | | 194 | 209 | (a)314 \(\) | (a)158 | 212 |
| Cuttlefish | | | | | 19 | 2 | (a) | (a)1 | |
| Oysters . | | | | | 9,807 | 10,434 | $(b)\hat{9},\hat{2}02$ | (b)10,479 | (b)(c)8,908 |
| Mussels | | | | | 535 | 577 | (a)23 | (a)63 | 100 |
| Pipi . | | | | | 47 | 86 | ` 117 | ` 203 | 193 |
| Scallops | | | | | 9,293 | 10.148 | 16.953 | 12,425 | 9,892 |
| Abalone | • | • | • | • | 7,692 | 7,958 | 6,439 | 6,032 | 5,753 |
| Total | | | | | 27,672 | 29,479 | (d)33,089 | (d)29,362 | (d)25,079 |

(a) Excludes Victorian figure, which is not available for publication. available. (c) Excludes South Australia figure, which is not available.

Pearls, pearl-shell and trochus-shell

PEARL CULTURE AND PEARL AND TROCHUS SHELL FISHING OPERATIONS $\operatorname{AUSTRALIA}(a)$

(Source: Commonwealth Department of Primary Industry)

| | | 1970 | 1971 | 1972 | 1973 | 1974 |
|-------------------------------------|----------|---------|---------|---------|---------|---------|
| | | QUANT | ITY | | | |
| Pearl and Trochus shell fishing ope | erations | | | | | |
| Production of— | | | | | | |
| Pearl shell(b) | tonne | 365.6 | 314.5 | 223.8 | 204.9 | 246.7 |
| Trochus shell | tonne | 25.5 | 0.7 | 1.1 | 2.5 | 21.4 |
| Pearl culture operations— | | | | | | |
| Live shell introduced | . No. | 444,727 | 333,280 | 432,318 | 500.651 | 558,465 |
| | tonne | 179.8 | 107.4 | 139.6 | 202.1 | 249.3 |
| Production- | | | | | _+ | |
| Round and baroque pearls | . No. | 80,445 | 107,777 | 133,442 | 102.033 | 86,757 |
| | nomme(c) | 48,314 | 62,179 | 74,727 | 57,138 | 63,722 |
| | . No. | 472,259 | 413,964 | 159,113 | 215,288 | 224,966 |
| Half pearls | | | | | | |

For footnotes see next page

⁽b) Incomplete; see individual species.

⁽b) Excludes Queensland figure which is not (d) Incomplete; see individual species.

FISHERIES

PEARL CULTURE AND PEARL AND TROCHUS SHELL FISHING OPERATIONS AUSTRALIA(a)—continued

| | | | | 1970 | 1971 | 1972 | 1973 | 1974 |
|--|-----------|--------|------|-------------------|------|------|------|------|
| | | | | VALUE (\$'000) | | | | |
| | | - | | | | | | |
| Pearl and Trochus shell i | fishing o | perati | ons- | | | | | |
| Production of- | _ | • | | 275 | 245 | 203 | 236 | 211 |
| | | perati | | 275 4 | 245 | 203 | 236 | |
| Production of— Pearl shell . | : | | | | | | | 211 |
| Production of— Pearl shell Trochus shell Pearl culture operations | <u>:</u> | | • | | | | | |
| Production of— Pearl shell Trochus shell Pearl culture operations Production of— | e pearls | | | 4 | | ••• | ••• | ; |

⁽a) Figures refer to the year ended January for the Northern Territory and Queensland and to the year ended December for Western Australia. (b) Excludes manufacturing shell produced from pearl culture operations. (c) A momme is a pearl weight measurement equivalent to 3.769 grams.

Whales

WHALES TAKEN(a): AUSTRALIA

(Source: Commonwealth Department of Primary Industry)

(Number)

| | | | | 1971 | 1972 | 1973 | 1974 | 1975 |
|---------|----|---|---|------|------|------|-------|-------|
| Male . | | | | 820 | 792 | 684 | 629 | 692 |
| Female. | • | • | • | 40 | 161 | 287 | 450 | 480 |
| Total | ١. | • | • | 860 | 953 | 971 | 1,079 | 1,172 |

⁽a) Sperm whales only were taken.

Processing of fish, crustaceans and molluscs

Ice is extensively used for the chilling of fish taken in estuarine and inshore fisheries. Refrigeration is used particularly on vessels operating in the tuna fishery and prawn fisheries to chill or freeze the catch. Refrigerated brine tanks are most commonly used.

Processing plants are located strategically throughout Australia close to fishing grounds. In recent years a number of shore-based plants have been established in remote areas of northern Australia to service the expansion of the prawn fishery.

Rock lobsters, prawns and scallops are frozen for export; tuna, snoek, Australian salmon and abalone are canned; small amounts of fish are smoked; some molluscs are bottled. Hand labour is still used extensively in processing operations, but mechanisation is being progressively introduced.

Fish, crustaceans and molluscs intended for export are processed in establishments registered under the Export (Fish) Regulations. Edible fish for local consumption is mainly dispatched fresh iced to markets. A survey of the Australian seafood processing industry was published by the Department of Trade and Industry in 1971.

FISH PROCESSING: AUSTRALIA

(tonnes)

| | | | 1970–71 | 1971–72 | 1972-73 | 1973-74 | 1974–75 |
|--|-------|------|---------|---------|---------|---------|---|
| Fish preserving— | | | | | | | |
| Fish used— | | | | | | | |
| Shellfish | | | 1,742 | 1,931 | 1,663 | 1,311 | 1,123 |
| Other— | | | • | • | , | , | -, |
| Whole | | | 8,707 | 10,893 | 13,107 | 11,382 | 21,446 |
| Headed and/or gutted | | | 1,392 | 1,473 | 1,440 | 602 | 1,204 |
| Production— | | | • | • | • | | -, |
| Smoked fish and fish paste . | | | 694 | 557 | 640 | 659 | 318 |
| Canned or bottled shellfish . | | | 1,679 | 1,758 | 1,573 | 1,241 | 1,056 |
| Australian salmon (canned) . | | | 1,923 | 2,226 | 2,021 | 1,843 | 3,242 |
| Other canned fish (incl. fish loaf, cake | , etc | .) . | 3,227 | 4,073 | 5,242 | 4,172 | 9,021 |
| Other fish processing— | • | • | • | • | • | • | , |
| Fish meal production | | | 2,014 | 2,223 | 1,690 | 2,244 | 2,138 |

Whale processing

Oil from sperm whales is used in the manufacture of soap, plastics and watch lubricants, and in automatic transmission systems in motor cars.

WHALE PROCESSING: AUSTRALIA

(Source: Commonwealth Department of Primary Industry)

| | | 1971 | 1972 | 1973 | 1974 | 1975 |
|--|----------------------|-----------------|---------------|---------------|-----------------|-----------------|
| Quantity of sperm whale oil produced Value of whale oil produced . | barrels(a) \$'000 | 36,414 1,390 | 34,632 993 | 32,952 951 | 34,956 1,261 | 34,610 1,218 |
| Value of by-products (meal, meat, solubles, etc.) | ,, | 553 | 585 | 624 | 795 | 631 |
| Total value of products | ** | 1,943 | 1,578 | 1,575 | 2,056 | 1,849 |

(a) 6 barrels = approximately 1.016 tonnes.

Domestic marketing of fisheries products

Although virtually the whole of the tuna and Australian salmon catches and a large proportion of the snoek catch are canned, the greater part of Australian fish production is marketed fresh or frozen.

Marketing arrangements for fresh fish vary. In New South Wales fish marketing is the responsibility of the Fish Marketing Authority, which operates the Metropolitan and Wollongong Fish Markets. In other coastal centres of New South Wales fishermen's co-operatives may become registered as local fish markets. In Queensland the Fish Board sells all production on behalf of fishermen in that State, except fish intended for export and interstate trade. In Victoria, South Australia, Western Australia and Tasmania there is no restriction on market outlets. In Victoria, South Australia and Western Australia most fish is sent to metropolitan wholesale fish markets for auctioning. Small quantities are processed for sale locally, chiefly by co-operatives. Nearly all fresh fish in Tasmania is consigned direct to processors. The principal outlets for fish products in Australia are retail and catering establishments.

Consumption of edible fisheries products

Particulars of the estimated supplies of fish, crustaceans and molluscs available for consumption per head of population, in terms of edible weight, are included in the following table. For the purpose of compiling this table, an allowance has been made for the non-commercial fish catch.

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FISHERIES PRODUCTS: ESTIMATED SUPPLIES AVAILABLE FOR CONSUMPTION AUSTRALIA

(kg edible weight per person per annum)

| | | 1970–71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-------------------------------------|---|---------|---------|---------|---------|---------|
| Fresh or frozen— | _ | | | | | |
| Fish— | | | | | | |
| Australian origin(a) | | 1.6 | 1.7 | 1.7 | 2.0 | 1.3 |
| Imported | | 2.1 | 1.5 | 1.5 | 1.8 | 1.6 |
| Crustaceans and molluscs | | 0.9 | 0.9 | 0.8 | 1.2 | 0.6 |
| Cured (including smoked and salted) | | 0.5 | 0.5 | 0.8 | 0.9 | 0.7 |
| Canned— | | | | | | |
| Australian origin(a) | | 0.5 | 0.5 | 0.3 | 0.6 | 0.7 |
| Imported | | 0.9 | 0.9 | 0.9 | 1.2 | 1.1 |
| Total | | 6.5 | 6.0 | 6.1 | 7.8 | 6.1 |

(a) Estimates have been calculated by subtracting export figures from production figures. In the case of fresh or frozen fish, an allowance of 10 per cent has been added to the commercial production figure to allow for non-commercial catch.

Overseas trade in fisheries products

Edible fisheries products

OVERSEAS TRADE IN EDIBLE FISHERIES PRODUCTS: AUSTRALIA

| | Quantity | (tonnes) | | Value (\$' | 000 f.o.b.) | |
|-------------------------------------|----------------|-------------|-------------|------------|-------------|---------|
| | 1972-73 | 1973–74 | 1974-75 | 1972-73 | 1973-74 | 1974-75 |
| | IM | PORTS | | | | |
| Fresh, chilled, frozen or boiled(a) | . 19,197 | 23,135 | 20,346 | 15,739 | 19,009 | 17,336 |
| Smoked, dried, salted or in brine | . 2,946 | 4,694 | 3,739 | 2,835 | 4,747 | 4,281 |
| Potted or concentrated | . 95 | 154 | 150 | 225 | 329 | 395 |
| Canned— | | | | | | |
| Herrings | . 1,994 | 2,047 | 1,734 | 1,377 | 1,668 | 1,873 |
| Salmon | . 4,590 | 6,901 | 3,657 | 7,841 | 16,884 | 9,724 |
| Sardines, sild, brisling, etc | . 3,090 | 3,023 | 3,175 | 3,588 | 3,911 | 5,024 |
| Tuna | . 38 | 538 | 2,355 | 43 | 723 | 3,418 |
| Other fish | . 2,372 | 3,448 | 3,874 | 1,884 | 2,868 | 3,649 |
| Crustaceans and molluscs . | . 1,071 | 1,715 | 1,561 | 2,200 | 3,607 | 2,881 |
| Total canned | . 13,155 | 17,672 | 16,356 | 16,933 | 29,661 | 26,569 |
| Other prepared or preserved fis | h. | | | | | |
| crustaceans and molluscs(b). | . 11,030 | 10,448 | 8,936 | 11,432 | 14,201 | 13,156 |
| Grand total | | • • | •• | 47,164 | 67,947 | 61,737 |
| | EX | PORTS | | | | |
| (Aust | ralian produce | only; exclu | des re-expo | rts) | | |
| Fresh, chilled or frozen(c)— | | | | | | |
| Fish | . 2,619 | 2,805 | 1,392 | 1,283 | 1,628 | 1,106 |
| Crustaceans and molluscs- | , | _, | -, | -, | -, | -, |
| Rock lobster tails | . 4,544 | 3,749 | 4.193 | 29,783 | 25,706 | 32,026 |
| Prawns | . 6,457 | 6,719 | 7,579 | 23,721 | 23,904 | 24,443 |
| Other(d) | 3,017 | 3,026 | 1,473 | 8,620 | 8.085 | 4,120 |
| Crustaceans and molluscs boiled | | -, | -, | -, | -, | ., |
| water | . 644 | 334 | 357 | 2,234 | 1,194 | 1,124 |
| Prepared and preserved— | 3 | | | , • | -, • | -, |
| Fish | . 1,599 | 215 | 158 | 1.154 | 380 | 264 |
| Crustaceans and molluscs . | . 2,262 | 1,787 | 1,570 | 5,651 | 5,170 | 5,106 |
| Grand total | • | •• | | 72,447 | 66,067 | 68,189 |

⁽a) Excludes frozen smoked, which is included in item Smoked, dried, etc. (b) 1974-75 figures for this category are not comparable with those for previous years as the item 'prawn crackers' is no longer available separately and has been excluded. (c) Excludes frozen smoked, which is included in item 'Prepared and preserved crustaceans and molluses'. (d) Total values for this item for 1972-73, 1973-74 and 1974-75 include values of \$224,000, \$232,000 and \$215,000 respectively, for which no quantities have been included.

Non-edible fisheries products

OVERSEAS TRADE IN SELECTED NON-EDIBLE FISHERIES PRODUCTS: AUSTRALIA

| | | Quantity | | | Value (\$'0 | 000 f.o.b.) | |
|--|-------------|-------------------|-------------------|-------------------|--------------|-------------|--------------------|
| | | 1972–73 | 1973–74 | 1974–75 | 1972-73 | 1973–74 | 1974-75 |
| | | IMPO | ORTS | | | • | |
| | | 1.072 | | | 262 | 120 | |
| Fish heads, fresh or frozen Other fish waste | tonnes | 1,972 1,109 | 883 1,978 | 576 3,484 | 262 190 | 128 | 95 |
| | ,,,, | | | | 494 | 185 | 128 |
| Fish, live(a) | | 6,201 | 8,315 | 10,856 | | 688 | 1,029 |
| Fish meal | tonnes | 14,110 | 13,873 | 23,516 | 2,054 | 4,769 | 7,064 |
| Whale oil | '000 litres | 146 | 144 | 81 | 46 | 44 | 40 |
| Cod-liver oil | ** | 342 | 324 | 200 | 115 | 123 | 112 |
| Other oils (including seal | | 540 | 4.042 | 005 | 145 | 210 | |
| oil) | ** | 748 | 1,043 | 985 | 145 | 218 | 382 |
| Coral and shells and their | | | | 22 | 12 | • | • |
| waste | tonnes | 91 | 75 | 77 | 33 | 56 | 82 |
| Fortoise shell (including | | | • | | | | |
| turtle shell, claws, waste) | ** | • • | 2 | • • | 1.42 | 57 | - |
| Pearls | | • • | • • | • • | 142 | 232 | 204 |
| Total | | | | •• | 3,481 | 6,500 | 9,141 |
| | | EX | PORTS | | | | |
| | (Australia | an produce | only; exclud | des re-expo | rts) | | |
| Australian produce— | | | | | | | |
| Whale oil | '000 litres | 7,685 | 8,494 | 4,184 | 996 | 1,088 | 713 |
| Other oils | ,, | 2 | 7 | 97 | 1 | 8 | 30 |
| Pearl-shell | tonnes | 560 | 455 | 400 | 547 | 489 | 47 |
| Other shell (including | *********** | 200 | | | • | | |
| trochus) | ,, | 302 | 297 | 417 | 86 | 115 | 160 |
| | ,, | | | | 86 | 3 | |
| Natural pearls | | • • • | | | | _ | |
| Natural pearls | | | | | | | |
| Natural pearls Cultured pearls— Round | No. | 89.065 | 49,772 | 58,302 | 1.038 | 656 | 1,104 |
| Cultured pearls— | No. | 89,065 159,195 | 49,772 279,474 | 58,302 209,824 | 1,038 299 | 656 521 | |
| Cultured pearls— Round | No. | 89,065 159,195 | 49,772 279,474 | 58,302 209,824 | | | 1,104 324 40 |

⁽a) Live fish whether or not fit for human consumption,



CHAPTER 26

MINERAL INDUSTRY

Further detailed statistics and information on the subjects dealt with in this chapter are contained in the annual printed bulletin *The Australian Mineral Industry—Annual Review* and other publications issued by the Bureau of Mineral Resources, Geology and Geophysics, which also issues, in conjunction with the A.B.S., a quarterly publication, *The Australian Mineral Industry*, (Quarterly Review and Statistics) (10.17). The annual statistical bulletins Mining Establishments, Summary of Operations (Preliminary) (10.72), Mining Establishments, Details of Operations (10.60), Mineral Production (10.51), Mineral Exploration (10.41), and Mining Industry, Foreign Ownership and Control (10.42) of the A.B.S. contain economic statistics of the industry prepared and published as soon as possible after the data have been compiled. A monthly statistical bulletin Minerals and Mineral Products (10.19) is issued also, and other current statistics on mining or mine products are contained in the Monthly Review of Business Statistics (1.4), the Digest of Current Economic Statistics (1.5), and the monthly bulletin Production Statistics (1.2.14).

GENERAL

Geology

General geology

Most of the western and central part of the Australian continent consists of basement rocks of Precambrian age. Younger Palaeozoic rocks, mostly of geosynclinal origin, form a discontinuous belt several hundred miles wide extending from north Queensland to Tasmania. Mesozoic platform sediments form a broad zone separating the Palaeozoic and Precambrian rocks and extending from the Gulf of Carpentaria to central New South Wales. Caincie rocks occur mainly in Victoria, south-western New South Wales and southern South Australia, and as residual basalt cappings over extensive areas of the Palaeozoic rocks of eastern Australia.

Economic geology

Minerals of economic significance occur widely throughout the Precambrian and Palaeozoic rocks of the continent. Palaeozoic mineralisation is perhaps more varied, but the Palaeozoic deposits now being worked are in general smaller than those found in Precambrian rocks. Most of Australia's metallic mineral deposits occur within two broad regions, a region of Precambrian rocks in the west and central areas of the continent and a region of younger Palaeozoic rocks in the east.

The major deposits of metallic ore minerals, including those of iron, lead, zinc, silver, copper, uranium, nickel, and gold, are contained in the Precambrian rocks of the Australian shield. Smaller deposits of ores of tin, tungsten, tantalum, beryllium, manganese, cobalt, and mica are also contained in these rocks.

The mineralised Palaeozoic rocks contain major deposits of gold, now mostly worked out, and a few large copper and lead-zinc-silver ore occurrences. Smaller amounts of ores of tin, tungsten, molybdenum, bismuth, antimony, and ores of other metals also occur in these rocks.

Outside these two main categories, however, there are some metallic mineral deposits of considerable economic importance which were formed during the Tertiary Period. These include bauxite (the ore of aluminium) which occurs as a surface capping over rocks of various ages, the result of a long period of weathering and reworking. Extensive deposits of bauxite occur at Weipa on Cape York Peninsula in north Queensland, at Gove on the north-eastern tip of the Northern Territory, in the Darling Range in Western Australia and near Kalumburu in the north-west of Western Australia.

Other important deposits which are the results of weathering are the lateritic nickel deposits at Greenvale and Rockhampton in Queensland, and in the Kalgoorlie and Wingellina areas of Western Australia. Mineral sands, another important exception, contain rutile and ilmenite (ores of titanium), zircon (zirconium ore), monazite (thorium ore), and other minerals, and are particularly well developed on the coasts of central and northern New South Wales, southern Queensland and south-western Western Australia. The immediate source of the deposits of the eastern States is considered to be Mesozoic sedimentary rocks. The Western Australian deposits are thought to be derivatives of the Precambrian granites of the Australian shield.

Occurrences of fuel minerals (coal, oil and natural gas) are characteristically located in sedimentary basins. Large areas of Australia are covered by these basins, and more than twenty major sedimentary basins have been identified on the Australian mainland. In addition, sedimentary basins are known to exist in off-shore areas adjacent to the Australian coast. The individual basins range in area from 10,000 to 1,760,000 square kilometres and contain marine and continental sedimentary rocks ranging in maximum thickness from 300 to about 10,000 metres and including rocks of all ages from Proterozoic to Tertiary.

The main Australian deposits of black coal are in eastern Queensland and New South Wales. Most are Permian in age, although the deposits at Ipswich in Queensland are Triassic, and they predominantly have a bituminous rank; both coking and non-coking types occur. The extensive brown coal deposits of Victoria were formed during the Tertiary Period and are used to produce electricity for that State. The Late Triassic sub-bituminous coal at Leigh Creek is used to produce electricity in South Australia and Permian sub-bituminous coal is mined at Collie in Western Australia.

Crude oil and natural gas have been found in a number of sedimentary basins. In the Bowen-Surat Basin, Queensland, small commercial deposits of oil exist at the Moonie, Alton and Bennett fields, and commercial deposits of natural gas exist in the Roma and Rolleston areas. Gas from the Roma area is used to supply Brisbane. Small gas reserves are present at Gilmore in the Adavale Basin. Most of the oil reservoir rocks are of Lower Jurassic age, and the gas reservoir rocks are of Mesozoic and Permian age. In the Gippsland Basin, offshore from Victoria in Bass Strait, oil in commercial quantities has been discovered in the Kingfish, Halibut, Tuna, Barracouta and Mackerel fields and commercial natural gas in the Marlin, Barracouta, Snapper and Tuna fields. Cretaceous and Tertiary strata are the reservoir rocks. Eastern Victoria and Melbourne are now supplied with gas from Marlin and Barracouta fields; oil is being produced from Kingfish, Halibut and Barracouta. Commercial deposits of natural gas were discovered in the Cooper Basin, South Australia at Gidgealpa, Moomba, Daralingie, Toolachee, Merrimelia, Della, Strzelecki, Mudrangie, Packsaddle, Brolga, Coonatie, Fly Lake, Big Lake, Dullingari, Brumby, Kanowana and Burke, and gas and oil at Tirrawarra, Moorari and Fly Lake, all in South Australia, and gas accumulations at Wolgolla, Durham Downs, Roseneath and Epsilon, Queensland, The reservoir rocks are of Permian age. In the Carnarvon Basin, Western Australia, commercial crude oil, mainly in the Cretaceous formations, and also to a lesser degree in the Jurassic rocks, is being produced from Barrow Island. Offshore, major gas deposits have been discovered at Goodwyn, Tidepole, West Tryal Rocks, Angel and North Rankin; minor gas accumulations occur at Dockrell and Rankin. Non-commercial oil was discovered at Rankin, Legendre, Madeleine, Eaglehawk, Egret, Lambert, Dockrell, Goodwyn and Tidepole. Further south, onshore in the Perth Basin, natural gas in commercially significant quantities was discovered in the Yardarino, Gingin, Dongara, Mondarra and Walyering areas, the reservoir rocks being of Lower Jurassic, Lower Triassic and Permian ages. The evaluation of the size of the Scott Reef gas discovery in the Brause Basin in reservoirs of Lower to Middle Jurassic, and Upper Triassic age is dependent upon the drilling of at least one other well. Natural gas was encountered in the offshore Bonaparte Gulf Basin in the Petrel, Tern, Sunrise, Troubadour and Puffin prospects and onshore at Bonaparte and Keep River. Natural gas was discovered in large quantities in formations of Ordovician age at Mereenie and Palm Valley in the Amadeus Basin, Northern Territory. The lower gas accummulation at Mereenie is underlain by oil in the same Pacoota Sandstone reservoir.

The most important non-metallic minerals mined in Australia are asbestos, clays, sand and gravel, limestone, gypsum, salt and silica.

Opal is found in the flat-lying sedimentary beds of the Great Artesian Basin in Queensland, New South Wales and South Australia and was formed during the Tertiary Period. The other important gemstone produced is sapphire from alluvial wash near Inverell and Glen Innes in New South Wales and Anakie in Queensland.

A table showing most of the larger mineral deposits now being mined in Australia according to the age of the geological formation in which they are found is shown on page 927.

PRINCIPAL AUSTRALIAN MINERAL DEPOSITS

| Age of geological formation in which located | Metal or mineral | State or Territory | Locality |
|---|--------------------------|---|---|
| Precambrian (more than 570 million years | Copper | Queensland Western Australia | Mount Isa, Gunpowder Golden Grove |
| old) | Gold | Northern Territory Western Australia | Tennant Creek Kalgoorlie, Telfer and other localities |
| | Iron | South Australia Western Australia | Middleback Ranges Yampi Sound, Pilbara and Yilgarn regions |
| | Lead-silver-zinc | New South Wales Northern Territory Queensland | Broken Hill McArthur River Mount Isa |
| | Nickel | Western Australia | Kambalda, Windarra, Scotia, Nepean, Agnew, Forrestania, Spargoville |
| | Tin (lode) Uranium | Western Australia Northern Territory | Greenbushes Nabarlek, Ranger, Koongarra, Jabiluka |
| Palaeozoic (between 235 and 570 | Black coal | New South Wales | Hunter Valley, Lithgow, South Coast |
| million years old) | | Queensland | Bowen Basin, Blair Athol |
| | _ | Western Australia | Collie |
| | Copper | New South Wales | Cobar, Woodlawn |
| | Copper-gold | Tasmania | Mount Lyell |
| | Iron Lead-silver-zinc | Tasmania New South Wales | Savage River Elura |
| | Lead-Silver-zilic | Tasmania | Rosebery, Que River |
| | Phosphate | Queensland | Duchess, Lady Annie, Ardmore, Yelvertoft |
| | Tin (lode) | Queensland | Herberton |
| | | New South Wales | Ardlethan |
| | Tungsten | Tasmania Tasmania | Renison, Luina and north-east of State King Island and north-east |
| | Tungsten | 1 asiliailia | of State |
| Mesozoic | Black coal | Queensland | Ipswich, Callide |
| between 65 and 235 million | | South Australia | Leigh Creek |
| years old) | Manganese | Northern Territory | Groote Eylandt |
| Cainozoic | Bauxite | Queensland | Weipa, Aurukun |
| (less than 65 million years | | Northern Territory | Gove |
| old) | | Western Australia | Darling Range |
| | Brown coal | Victoria | Gippsland |
| | Mineral sands | New South Wales | North coast |
| | | Queensland Western Australia | South coast South-west coast |
| | Nickeliferous laterite | Oueensland | Greenvale |
| | Tin (alluvial) | New South Wales | Tingha |
| | (| Queensland | Herberton |
| | | Tasmania | North-east of State |
| | Uranium | Western Australia | Yeelirrie |



PLATE 57

Mineral resources

Australia is self-sufficient in most minerals of economic importance and much more than self-sufficient in some. The following table summarises, in a general way, known reserves and production of the principal metals and minerals in relation to Australian consumption of these commodities and present export availability. Many qualifications are necessary to a simple summary of this kind, and the table should be read in conjunction with the following detailed notes on principal minerals.

RESERVES OF MINERALS: AUSTRALIA

(Source: Bureau of Mineral Resources, Geology and Geophysics)

| Production | Reserves adequate | Reserves uncertain | Reserves negligible |
|---|--|--|--|
| Production sufficient for domestic demand and exports | Aluminium (bauxite) Barite Bismuth Cadmium Coal (black) Cobalt Copper Gold Gypsum Iron ore Lead Manganese ore (metallurgical) Natural gas Nickel Opal Phosphate Salt Silver Thorium (monazite) Tin Titanium (ilmenite and rutile) Tungsten Zinc Zirconium (zircon) | Antimony Beryllium Glass sands Talc Tantalum | |
| Production sufficient for domestic demand | Clays (except light grade china clay) Coal (brown) Dolomite | | |
| Production not sufficient for domestic demand | Asbestos (chrysotile) Felspar Lithium Sulphides (as source of sulphur) Limestone | Arsenic Bentonite | |
| Production nil | Vanadium | Diamonds Graphite Manganese ore (chemical) Vermiculite | Asbestos (crocidolite) Borates Nitrates Sulphur |

Individual minerals

NOTE. For further information on recent developments see pages 969-72.

Bauxite. As a result of discoveries in the Weipa and Aurukun areas, Queensland, Gove, Northern Territory, and in the Darling Range and Kimberley area in Western Australia, Australia's reserves of bauxite are known to be vary large, perhaps the largest in the world. Total reserves in the Weipa and Aurukun areas are believed to be in excess of 3,000 million tonnes, while proved reserves at Gove are reported to be 250 million tonnes of bauxite. In the Darling Range, reserves of economic grade bauxite are estimated to be about 1,000 million tonnes spread over several locations. Another significant deposit of 235 million tonnes has been proved in the Mitchell Plateau area in the Kimberley District of Western Australia.

Coal. Australia has coal resources of all types adequate to provide for future domestic requirements and a substantial export surplus. Australia's coal reserves are concentrated mainly in the mainland eastern States. The bituminous coal is located mainly in New South Wales and Queensland; Victoria has very substantial brown coal reserves in the Latrobe Valley. The value of coal production in 1975 was the greatest of all mine products, and the value of coal exports was second only to iron ore and pellets. Resources of black coal in Eastern Australia were estimated in 1975 to be not less than 200,000 million tonnes of which in situ reserves were 34,739 million tonnes.

Copper. The principal deposit of this metal is at Mount Isa, Queensland where ore reserves were estimated at 140 million tonnes in 1975 containing 4.197 million tonnes contained copper. Other important deposits are situated at Cobar, New South Wales; Gunpowder, Queensland; Mount Lyell, Tasmania; Kanmantoo and Mount Gunson, South Australia; and at Tennant Creek, Northern Territory. Copper concentrates are produced as by-products of nickel concentrate production at Kambalda, Western Australia; silver-lead-zinc concentrate production at Broken Hill, New South Wales; tin concentrate production at Luina, Tasmania and lead concentrate production at Rosebery, Tasmania.

Crude Oil. The aggregate recoverable reserves of crude oil in Australia in commercially viable fields at the end of 1975 were estimated to be 243 million cubic metres. The largest reserves (213.5 million cubic metres) are in the offshore Gippsland Basin fields (Barracouta, Marlin, Halibut, Kingfish, Tuna, Mackerel), Victoria, followed by those in the Barrow Island field in the Carnarvon Basin, Western Australia (21.34 million cubic metres), the Tirrawarra, Moorari and Fly Lake fields in the Cooper Basin, South Australia (7.65 million cubic metres), the Moonie, Alton and Bennett fields in the Surat Basin, Queensland (240,000 cubic metres) and in the Dongara and Yardarino fields in the Perth Basin, Western Australia (230,000 cubic metres). To the end of 1975 the cumulative production of crude oil from fields declared commercially viable in Australia accounted for 122.15 million cubic metres representing a 33.5 per cent depletion of the initial estimates of reserves in all commercially viable crude oil fields in Australia.

The Queensland oil reserves, mainly those in the Moonie field, are depleted by nearly 93 per cent, those in the Carnarvon Basin fields by 47 per cent and the offshore Gippsland Basin reserves by 32 per cent.

Gold. Australia's gold resources are heavily concentrated in Western Australia, mainly in the Kalgoorlie-Coolgardie area, but small deposits of gold-bearing ore occur in all States. In addition, gold is commonly obtained as a by-product of other mining activities, particularly copper mining. Economic gold ore reserves at Kalgoorlie were estimated at 3.7 million tonnes in early 1976.

Iron ore. Very extensive deposits of iron ore have been discovered, establishing Australia as one of the most important iron ore provinces in the world. The largest deposits are located in the Hamersley and Ophthalmia Ranges in the Pilbara region of north-west Western Australia, and are being worked at Mount Tom Price, Paraburdoo, Mount Whaleback, and Robe River. Other commercially important deposits of iron ore are situated in the Savage River area of Tasmania, in the Middleback Ranges of South Australia, and in the Mount Goldsworthy, Shay Gap, Yampi Sound, and Koolyanobbing areas in Western Australia. These deposits are adequate to supply the estimated needs of the Australian iron and steel industry far into the future, as well as providing a large export availability. Reserves and paramarginal resources in Australia are estimated to be 35,000 million tonnes. An assessment of iron ore resources is given in The Australian Mineral Industry Quarterly Review Vol. 27, No. 2.

Lead-zinc-silver. Australia has been a major producer of lead, zinc and silver since the discovery of ore at Broken Hill, New South Wales in 1883. Australian reserves of contained lead are 13.9 million tonnes, contained zinc 19.3 million tonnes, and contained silver 24.2 million kilograms. Lead and zinc concentrates are being produced with copper concentrates at Cobar, New South Wales. Reserves of lead-zinc-silver ore at Broken Hill currently exceed 17 million tonnes assaying about 11 percent lead, 11 per cent zinc and 100 grams of silver per tonne. Reserves at another major producing mine, Mount Isa in Queensland, are 51 million tonnes assaying 7 per cent lead 6.6 per cent zinc and

153 grams silver per tonne. Development of a new mine is underway at Hilton, near Mount Isa with reserves of 37 million tonnes of ore, assaying 7.7 per cent lead, 9.6 per cent zinc and 180 grams silver per tonne. Reserves at the Lady Loretta deposit, near Mount Isa, are 8.7 million tonnes of ore assaying 6.7 per cent lead, 18.1 per cent zinc and 109 grams silver per tonne. The capacity of the mine at Rosebery in Tasmania (reserves of 8.4 million tonnes, 5 per cent lead, 17.3 per cent zinc and 148 grams silver per tonne) has been increased. Development of the McArthur River deposit in Northern Territory (reserves of 190 million tonnes, 4.1 per cent lead, 9.5 per cent zinc and 44 grams silver per tonne) is dependent on the solution of complex metallurgical problems. A deposit discovered near Tarago, near Goulburn, N.S.W. at Woodlawn could commence production in 1978; reserves are estimated at 9 million tonnes assaying 3.0 per cent lead, 7.5 per cent zinc and 1.5 per cent copper.

Manganese. Known reserves of manganese, exceed domestic requirements and Australia is a major exporter. The principal deposit is currently being worked at Groote Eylandt in the Gulf of Carpentaria.

Mineral Sands. Ores of titanium (rutile and ilmenite), zirconium (zircon) and thorium and rare earths (monazite) occur in mineral sands over extensive areas of the north and central coasts of New South Wales, the south and central coasts of Queensland, and the south-western coast of Western Australia and at Eneabba, 270 kilometres north of Perth. Resources are large by world standards and easily workable. Australia's reserves of rutile and zircon represent a large proportion of the world's reserves of these minerals. In 1974 Australia was responsible for about 95 per cent of the world's supplies of rutile, 70 per cent of zircon, 33 per cent of monazite and 22 per cent of ilmenite.

Natural gas. The initial recoverable reserves of natural gas in commercially viable fields, both in the offshore and onshore accumulations were estimated at the end of 1975 at 349.18 thousand million (billion) cubic metres. Of this amount 23.1 billion cubic metres, or 7 per cent, have been produced; the remaining reserves at 31 December 1975 were, therefore 326.08 billion cubic metres. The largest remaining gas reserves (211.14 billion cubic metres) are in the offshore Gippsland Basin, Victoria. Production commenced from here in 1969, and gas is supplied to Melbourne, Geelong and Ballarat—Bendigo areas and a Melbourne-Benalla-Wodonga-Albury pipeline is planned. The 93.86 billion cubic metres of gas reserves in the Cooper Basin, South Australia, had been committed for the supply of the Adelaide, South Australia and the New South Wales markets. The supply of the Adelaide market commenced in November 1969. The 1,370 kilometre pipeline to Sydney was opened in 1976. The small gas reserves in the Roma area in Queensland and Dongara-Mondarra-Gingin area in Western Australia have been supplying the Brisbane and Perth-Pinjarra areas since 1969 and 1971 respectively.

Natural gas liquids. The Australian reserves of natural gas liquids in commercial viable fields, i.e. condensate and LPG (liquified petroleum gas), remaining at the end of 1975 were estimated at 134.51 million cubic metres. On the whole these reserves are distributed proportionately to the reserves of natural gas, the largest being in the offshore Gippsland Basin and the Cooper Basin. A separate 'liquids' pipeline for the transmission of NGL and crude oil from the Cooper Basin fields to Red Cliffs near Port Pirie, South Australia, has been under consideration for some time.

Nickel. In the Kalgoorlie-Widgiemooltha area of Western Australia more than 30 nickel sulphide ore bodies have been found since the original discovery of nickel ores was made at Kambalda in 1966. Total ore reserves in the Kalgoorlie area are more than 34 million tonnes, averaging 2.8 per cent nickel. Other large but low-grade ore bodies have been found between Leonora and Wiluna; the largest of these is Mount Keith where ore reserves are estimated to be 290 million tonnes averaging 0.6 per cent nickel. In the Leonora-Wiluna area at Agnew the ore body is estimated to contain at least 45 million tonnes of ore averaging over 2.0 per cent nickel.

A nickel refinery has been built at Kwinana, Western Australia, with an annual capacity of 30,000 tonnes. The smelter at Kalgoorlie now has a capacity to treat 350,000 tonnes of nickel concentrate per annum. The matte produced is processed at the Kwinana and overseas refineries. Bulk oxygen in the smelter is expected to increase throughput by 75 per cent.

Production from lateritic nickel deposits at Greenvale in Queensland commenced in 1974. The ore is refined near Townsville at Yabulu. Other large, but at present uneconomic, deposits of this type are known at Wingellina, near the border of South Australia and Western Australia, at the Ora Banda district northwest of Kalgoorlie and at Marlborough in Queensland.

Phosphate. Major deposits of phosphate rock are known in northwest Queensland and in the Northern Territory with reserves exceeding 3,300 million tonnes of average grade 7.3 per cent phosphorus. Production from the northwest Queensland deposits commenced in 1975.

Tin. The main deposits of tin now being exploited are in the Herberton field inland from Cairns, Queensland; north-west and north-east Tasmania; in the south-west of Western Australia; and at Ardlethan and in the New England area, in New South Wales.

Tungsten. The main deposits of tungsten ores are in north-eastern Tasmania (wolfram) and on King Island (scheelite). Australia's own requirements are small, and production is principally for export. Australian production of tungsten concentrates could be doubled by the late 1970s when the planned increases in production at King Island take effect. A major expansion program at the wolfram mine at Mareeba, Queensland, will be completed at the end of 1976.

Uranium. Exploration and development work continued in the Alligator River's uranium province in the Northern Territory. The four major deposits at Nabarlek, Koongarra, Ranger and Jabiluka have reserves in excess of 310,000 tonnes uranium.

Other important deposits have been outlined at Yeelirrie, Western Australia (42,000 tonnes uranium) and at the Beverley deposit (13,500 tonnes uranium) in the Lake Frome region, South Australia. At Mary Kathleen, Queensland, recoverable reserves have been estimated at almost 8,500 tonnes uranium; uranium oxide production commenced in 1976.

There has been no production of uranium oxide since 1971 in Australia.

A pilot plant for uranium oxide production will be constructed by 1978 using ore from Yeelirrie. The company hopes to be in full commercial production in 1980-81.

Administration

All mineral rights in Australia are vested in the Crown except on land which was granted before the Crown began to reserve mineral rights. In practice these private mineral rights are important only in the New South Wales coalfields. In the States, rights are held by the State Governments and in the Territories of the Commonwealth these rights are vested in the Commonwealth Government. The Commonwealth Government is able also to influence over-all development and production activity in the mineral industry by virtue of its statutory powers with respect to international trade, customs and excise, taxation, and loan raisings. Certain specially formed bodies such as the Joint Coal Board and the Australian Atomic Energy Commission have been given administrative responsibility in defined areas.

Control of mining

Each State or Territory has its own mining Acts or Ordinances and regulations governing the prospecting for and working of mineral deposits. Before the commencement of the Acts mentioned in the next paragraph these Acts, etc., were similar in principle, but different in detail. They all made provision for miner's rights to prospect and for small mining leases for mineral production. The principles embodied in these Acts, etc., were established many years ago when mining operations were generally small scale and labour-intensive. Although amendments had been enacted to modernise the legislation, it was generally inadequate for the large scale capital intensive operations often involved with modern mineral development. For this reason a large enterprise may take the course of acquiring mining titles by negotiation with the appropriate Minister for Mines and having the agreed terms and conditions embodied in an Act of the State Parliament. This method of acquisition has been used in several cases where the leasing company undertook an obligation (such as the erection of a large treatment works) in return for leases over large areas for a long period, and has become more common in recent years (e.g. iron ore in Western Australia, coal and bauxite in Queensland, bauxite in the Northern Territory).

Two States have brought into operation new mining acts, i.e. The Queensland Mining Act of 1968 to 1971 which commenced on 1 January 1972 and The South Australian Mining Act, 1971 which commenced on 3 July 1972. These Acts are simpler and more suited to modern conditions than the mining acts which they replaced. Western Australia and New South Wales introduced Bills for new mining acts into their respective Parliaments in 1972. The New South Wales Act was passed in 1973 and became operative in March 1974. The proposed Western Australian legislation was still in the form of a bill in March 1976.

AREAS OCCUPIED UNDER MINING ACTS AND ORDINANCES(a) ('000 hectares)

| Year (31 De | cemb | er) | N.S.W.(b) | Vic.(c) | Qld(d) | S.A.(b) | W.A. | Tas. | N.T.(b) | Total |
|----------------|------|-----|-----------|---------|--------|---------|-------|------|---------|-------|
| 1971 | | | 464 | 498 | 1,589 | 55 | 3,165 | 25 | 41 | 5,837 |
| 1972 | | | 656 | 133 | 1,405 | 59 | 1,721 | 26 | 48 | 4,048 |
| 1973 | | | (e)1,115 | 25 | 1,258 | 58 | 1,850 | 36 | 51 | 4,393 |
| 1974 | | | n.a. | 24 | 1,217 | 48 | 1,653 | 36 | 59 | n.a. |
| 1975 | | | . n.a. | 24 | 1,294 | 43 | 1,297 | n.a. | 62 | n.a. |

(a) Excludes areas held under special arrangements; see following text. (b) At 30 June. (c) includes land held under Extractive Industries Act 1966. (d) Excludes lands held under miners' rights and dredging claims. (e) Figures not comparable with previous years; Includes some new coal titles, as defined by the Coal Mining Act 1973.

Control of exploration

This section refers in general to the exploration for all types of mineral deposits in Australia. Additional information relating to the search for petroleum is set out in the following section.

As a result of the introduction of large scale modern prospecting methods (particularly airborne prospecting), the small prospecting areas referred to in the previous section were found to be unsuitable in some instances, and steps have been taken in the States and Territories to ensure the availability of large areas for prospecting by interested persons. Large areas may be made available by provision within the Mining Acts or Ordinances for the issue of authorities to prospect over an area defined by a written agreement which also sets out provisions as to the amount of money to be spent, methods of prospecting, tenure of the agreement, etc.

The tenure of such areas is limited, usually to one or two years only, and, if renewed for a further period, is only over an area selected from the larger area (usually 50 per cent) as a result of work done during the life of the initial agreement. It does not give the holder any rights over, or authorities to prospect on, land already held under a mining title within the agreed area. Unless specifically stated in an agreement, the discovery of minerals, whether inside or outside an area covered by an authority to prospect, gives the discoverer no legal rights except the right to apply for a mining lease over the area in which the discovery was made. Suitable prospects are converted to mining tenements by making application for lease under the appropriate mining Act.

Control of petroleum exploration

On-shore. In Australia all petroleum is the property of the Crown. Consequently, full control of petroleum mining rights is vested in the Government or Administration of each State or Territory. Any company, organisation or individual proposing to undertake petroleum exploration or development must first satisfy the Government concerned that the necessary financial and technological resources are available to carry out the operation.

There are three main types of petroleum titles:

- (a) the permit, covering initial geological, geophysical and exploration drilling;
- (b) the licence (in Victoria only), which covers detailed surveys and drilling; and
- (c) the lease, which covers development operations and production.

Further details of the petroleum legislation are given in Year Book No. 55, pages 996-7. The States of Western Australia and South Australia recently issued some revisions to their on-shore legislation, for details of which direct reference should be made to the State concerned.

Off-shore. The Petroleum (Submerged Lands) Act 1967 is the instrument whereby the control and safeguarding of the exploration and exploitation of petroleum resources on the territorial sea-bed and on the continental shelf are assured. Complementary legislation has been passed by each State Government and by the Commonwealth Government.

The legislation provides for a two-stage system of titles: the exploration permit, which covers all forms of exploration including drilling; and the production licence, which covers development and exploration. Royalty is generally shared between State and Commonwealth Governments on a 60:40 basis, however, overriding royalty is payable to the State under certain conditions. Mineral royalty receipts of government under these Acts are included in the table on page 934.

AREAS OCCUPIED UNDER PETROLEUM EXPLORATION AND DEVELOPMENT TITLES

| Year (31 De | eceml | er) | N.S.W. | Vic. | Qld | S.A.(a) | W.A. | Tas. | N.T.(a) | Total |
|----------------|-------|-----|---------|--------|-----------|------------|---------------|-------|---------|---------|
| | | | | ON-SH | ORE ARE | AS (square | kilometres) | | | |
| 1971 | | | 196,145 | 47,892 | 885,596 | 569,710 | n.a.(b) | 596 | 149,530 | n.a |
| 1972 | | | 86,728 | 51,442 | 1,296,085 | 567,187 | n.a.(b) | | 149,530 | n.a |
| 1973 | | | 158,164 | 34,582 | 692,500 | 599,293 | n.a.(b) | 16 | 163,504 | n.a |
| 1974 | | | 101,564 | 20,064 | 618,600 | 596,415 | n.a.(b) | | 152,422 | n.a |
| 1975 | • | • | 44,612 | 9,704 | 532,500 | 290,900 | n.a.(b) | | 127,040 | n.a |
| | | | | OFF-SI | ORE ARE | AS (5 minu | te blocks) (c |) | | |
| 1971 | | | 782 | 1,178 | 2,918 | 3,089 | 8,727 | 1,703 | 3,534 | 21,931 |
| 1972 | | • | 503 | 1,178 | 2,918 | 3,089 | 10,171 | 1,498 | 3,535 | 22,892 |
| 1973 | | | 433 | 1,178 | 2,918 | 3,089 | 9,828 | 1,498 | 4,283 | 23,227 |
| 1974 | | • | 53 | 939 | 2,221 | 2,685 | 8,032 | 475 | 9,024 | 23,429 |
| 1975 | • | • | | 529 | 1,954 | 1,398 | 2,231 | .,, | 6,843 | =>, .=> |

⁽a) At 30 June. (b) Available only in terms of 5 minute blocks of which there were 6,510 at 31 December 1971, 8,036 at 31 December 1972, 7,260 at 31 December 1973, 5,413 at 31 December 1974, and 1,679 at 31 December 1975. (c) Area bounded by 5 minutes of latitude and 5 minutes of longitude; figures include partial blocks.

Mineral royalties

The collection by governments of royalties for the production of minerals within their area of authority is an internationally accepted practice. In Australia the responsibility for mineral royalties is largely a State concern, and all States currently collect some form of mineral royalty payments. In the past most States have relied on an established system of standard rates which were uniform for all producers of any particular mineral in the State concerned. These charges were either a fixed monetary amount per tonne (e.g. 5c per tonne on gypsum mined in New South Wales) or an ad valorem royalty (e.g. 1.5 per cent of gross value of gold produced in New South Wales).

In recent years there has been an important basic change in the system of establishing royalty commitments, and it is now quite common for State Governments to negotiate special royalty rates with companies which are seeking mineral leases for large scale developments. These royalty rates may vary, depending on whether production is for export or for domestic processing. The rates for a particular mineral may also vary between producers. Important examples of this type of royalty agreement are the iron ore development agreements in Western Australia and coal development agreements in Queensland. Mineral royalties received by Governments in recent years are shown in the table below.

MINERAL ROYALTY RECEIPTS: GOVERNMENTS
(\$'000)

| | | | | | 1969-70 | 1970-71 | 1971-72 | 1972-73 | 1973-74 |
|--------------------|------|------|------|---|---------|---------|---------|---------|---------|
| New South Wales(| a) | | | | 13,558 | 17,819 | 10,237 | 9,592 | 13,496 |
| Victoria(b) . | | | | | 2,736 | 12,239 | 16,875 | 18,025 | 23,922 |
| Queensland(a) | | | | | 3,039 | 5,483 | 3,805 | 3,525 | 4,319 |
| South Australia | | | | | 1,557 | 1,798 | 1,821 | 1,807 | 1,944 |
| Western Australia | | | | | 15,700 | 22,347 | 25,247 | 27,666 | 33,615 |
| Tasmania (c) . | | | | | 424 | 410 | 489 | 498 | 506 |
| Northern Territory | , | | | | 449 | 431 | 634 | 910 | (d)242 |
| Commonwealth G | ovei | nmen | t(e) | • | 492 | 5,024 | 7,567 | 7,896 | 10,786 |
| Total . | | | | | 37,953 | 65,552 | 66,676 | 69,921 | 88,831 |

⁽a) Includes royalty on sand and gravel from Crown lands. (b) Includes royalty on brown coal paid by State Electricity Commission and royalties received under the Petroleum (Submerged Lands) (Royalty) Act 1967. (c) Includes rent and fees from mineral lands and royalties on iron ore. (d) Excludes Aboriginal Benefits Trust Fund royalties from mining operations for which details are not available. (e) Includes royalties received under the Petroleum (Submerged Lands) (Royalty) Act 1967.

Control of Exports

The Commonwealth Government maintains export controls over certain metals, petroleum and petroleum products and all raw and semi-processed minerals. These controls are administered under the authority of the Customs (Prohibited Exports) Regulations as amended from time to time by Statutory Rules. The authorities having jurisdiction over such exports are set out below together with listings of the goods subject to control. A clearance to export is needed in each case.

Minister for National Resources—An amendment to the Customs (Prohibited Exports) Regulations on 22 February 1973 (Statutory Rule No. 39 of 1973), and further amended by Statutory Rules 1973/248 and 1974/46, provides that the exportation from Australia of the following goods is prohibited unless approval in writing is issued by the Minister for National Resources or by an authorized person.

- (a) ores containing copper or tin, whether or not they have been subjected to processing or treatment; mineral or metallic substances produced in the course of processing or treatment of those ores; copper anodes, copper cathodes; copper ingots, copper rods, copper scrap and copper refinery shapes in the form of ingots, wire bars, billets, cakes, rolling blocks or ingot bars; copper alloys in the form of ingots, billets, cakes, rolling blocks or ingot bars and copper alloy scrap; substances (being residues, speiss, slag, dross, scale, sweepings, ash, sludge, slime, dust and wastes) produced in the course of the processing and treatment of copper and copper alloys; copper sulphate; copper oxide; refined tin in the form of ingots or in any other refinery form;
- (b) alumina;
- (c) petroleum and petroleum products;
- (d) all other minerals including those other minerals that have been subjected to processing or treatment; substances produced in the course of processing or treatment of those other minerals but not including refined products obtained by or from processing or treatment of those other minerals and goods into which products, whether refined or not, obtained by or from processing or treatment of those other minerals have been converted.

In addition, the export of metals and minerals of atomic energy significance are also controlled, viz.: minerals containing uranium and thorium, uranium, thorium, beryllium and lithium metals, compounds and alloys; hafnium-free zirconium metal, alloys and compounds, nickel metal in certain forms.

Department of Primary Industry—phosphate rock, phosphate and superphosphate, and fertilisers containing phosphate or superphosphate.

Joint Coal Board

The Joint Coal Board was established in 1946 under joint legislation of the Commonwealth Government and of the State of New South Wales to carry out special administrative functions in regard to the New South Wales black coal mining industry. A summary of these functions is given below

- (i) To ensure that coal is produced in the State of New South Wales in such quantities and with such regularity as will meet requirements throughout Australia and in trade with other countries:
- (ii) to ensure that the coal resources of the State are conserved, developed, worked and used to the best advantage in the public interest;
- (iii) to ensure that coal produced in the State is distributed and used in such manner, quantities, classes and grades, and at such prices as are calculated best to serve the public interest and secure the economical use of coal and the maintenance of essential services and industrial activities; and,
- (iv) to promote the welfare of workers engaged in the coal industry in the State.

Queensland Coal Board

The Queensland Coal Board carries out research and sampling tests of Queensland coals. It also makes funds available to colliery proprietors for equipment and makes grants and/or loans for the provision of amenities for employees and for communities in coal mining districts.

Australian Atomic Energy Commission

During 1953, legislation was enacted to set up an Atomic Energy Commission which is responsible, in an overall sense, for the production and utilisation of uranium in Australia. This Act, the Atomic

Energy Act 1953, superseded the Atomic Energy (Control of Materials) Act 1946, but retains a provision of that Act which provides for the control of substances which could be used for production or use of atomic energy.

The functions of the Commission fall under two main headings. Firstly, it is responsible for undertaking and encouraging the search for and mining of uranium and is empowered to co-operate with the appropriate authorities of the States in connection with these and related matters. Secondly it is authorised to develop the practical uses of atomic energy by constructing and operating plant for this purpose, carrying out research and generally fostering the advancement of atomic energy technology. The Commission operates under the direction of the Minister for National Resources.

Government assistance

The Commonwealth Government and the various State Governments provide assistance to the mineral industry in a variety of ways. The main forms of assistance are discussed below.

Commonwealth Government assistance

Assistance provided by the Commonwealth Government takes the form of income taxation concessions, subsidies, bounties, and technical assistance mainly through the work of the Bureau of Mineral Resources and the Commonwealth Scientific and Industrial Research Organization. A table showing direct Commonwealth Government payments to sectors of the mineral industry is included on page 938.

Income taxation concessions. Income derived from mining principally for gold in Australia is exempt from tax. The exemption is also available in respect of income derived from mining principally for gold and copper if the value of the gold obtained is not less than 40 per cent of the value of the total output.

Special deductions for capital expenditure incurred in the discovery and mining of petroleum (including natural gas) are allowable to a company deriving income from the sale of petroleum and products of that petroleum, mined by the company in Australia. Capital expenditure allowable to petroleum mining companies includes, broadly, the cost of exploratory surveys, drilling and well-head plant, access roads and expenditure on housing and welfare. In effect, a company is entitled to these deductions only when it produces Australian petroleum in commercial quantities because the special deductions are allowable only from income derived from the company's Australian produced petroleum or associated products. While the special deductions for exploration expenditure are allowable immediately against petroleum income, the deductions for capital expenditure on development are allowable over the life of the oil or gas field, or twenty-five years, which ever is the lesser.

A company mining or prospecting for minerals other than petroleum and gold may also be allowed special deductions for capital expenditure. Broadly, allowable capital expenditure includes expenditure on exploration and prospecting, preparation of a site for extractive mining operations, buildings, other improvements and plant necessary for those operations, access roads, certain treatment plant and housing and welfare.

The allowable capital expenditure of a general mining company, other than costs of exploration, may be deducted over the life of the mine, or twenty-five years, whichever is the lesser. Expenditure incurred by a mining company in exploring for general minerals is allowable as an immediate deduction against net income derived from mining operations. Annual deductions for depreciation on mining plant may be allowed in lieu of spreading the cost over the life of the mine. Exploration plant may also be deducted under the depreciation provisions of the law.

Special deductions are allowable for capital expenditure incurred on certain transport facilities used primarily and principally in relation to minerals mined in Australia, for the transport of raw minerals and certain specified products obtained from the processing of such minerals, or for transporting petroleum between the oil or gas field and a refinery or other terminal. The special deduction applies to expenditure incurred on a railway, road, pipeline or similar transport facility. Allowable expenditure on transport facilities is deductible in equal annual instalments over a period of twenty years. The extension of these concessions to mining and exploration activities carried on in Papua New Guinea was generally withdrawn from the time Papua New Guinea attained independence (16 September 1975).

Petroleum search subsidy. The petroleum search subsidy scheme, introduced in 1957, was terminated on 30 June 1974. During the years that the scheme was in operation, various amendments to the Act and Regulations altered the rates of subsidy and the types of operations to which subsidies were applicable. The last amendment to the Act, introduced in 1969, extended the duration of the Act to 30 June 1974, and restricted the general availability of subsidy to onshore areas; operations in

offshore areas were only subsidised if there was an Australian financial interest in the operation and the rate of subsidy approved had regard to the extent of that interest. In March 1972, the subsidy for approved onshore geophysical operations was increased to 50 per cent of acceptable costs of the operation. For all other approved operations the maximum subsidy was 30 per cent of acceptable costs. Details of amendments to the Petroleum Search Subsidy Act are given on page 1001 of Year Book No. 55. Subsidy payments made under the Act for the years 1969 to 1975 are shown in the table on page 938.

Pricing of Australian crude oil. The Commonwealth Government announced a new approach to the pricing of Australian crude oil from 18 September 1975 to provide the maximum practicable incentive for exploration of new oil fields and to give existing producers from known discoveries a fair return on their investment which would ensure that all economically recoverable oil is produced from known oil fields.

This policy differentiates between oil produced from fields discovered in the future and oil produced from fields already discovered.

Oil from newly discovered fields will attract a price at the nearest refinery port equivalent to the landed cost of imported crude oil from time to time. On the basis of the present landed cost this would mean, after allowance for the \$2.00 per barrel excise on oil production, a return of around \$6.90 per barrel to producers of new oil.

The prices for oil produced from the following fields are as follows:

Gippsland/Bass Strait. Increase of 23 cents per barrel to \$2.33 for all production from 18 September 1975.

Barrow. Increase of 50 cents per barrel to \$2.73 from 18 September 1975, then further increases to \$2.88 from 18 September 1976 and \$3.17 from 18 September 1977.

Moonie. Increase of 85 cents per barrel to \$3.00 from 18 September 1975, then further increases to \$4.35 from 18 September 1976 and \$5.25 from 18 September 1977.

The varying prices have regard to the varying costs of the respective producers. The pricing levels indicated above for oil from fields already discovered will apply for 3 years. The pricing levels to apply from September 1978 to September 1980 will be reviewed by the Industries Assistance Commission, which will also be asked to make recommendations on all aspects of Australian crude oil policy after 1980, when the present indigenous crude oil absorption arrangements expire.

Assistance to the gold-mining industry. Assistance to the gold-mining industry by subsidy was introduced at a time of rising costs in the industry and fixed official world price for gold. Because many producers were faced with the likelihood of closing down, the Government decided to subsidise marginal producers in Australia and Papua New Guinea. Under the Gold-Mining Industry Assistance Act 1954 a producer, the value of whose gold output exceeded 50 per cent of the total value of his mine output, was eligible for assistance, subject to certain conditions, on the production of gold from 1 July 1954. The assistance scheme was reviewed on a number of occasions since the Act was originally passed, and some liberalisations were approved, including increases in the rates of subsidy payable authorised in amendments passed in 1957, 1959, 1965 and 1972.

Under the Act in 1974 and 1975 the subsidy payable to small producers whose annual deliveries did not exceed 500 fine oz was \$6 per fine oz, irrespective of cost of production. For large producers, subject to certain provisions, the rate of subsidy payable was an amount equal to three-quarters of the excess of the average cost of production over \$27 per fine oz, with a maximum amount of subsidy of \$12 per fine oz. A producer whose deliveries during the year exceeded 500 fine oz could elect to be treated as a small producer. In this case the subsidy rate payable per fine oz on total deliveries was \$6 reduced by 1c for each fine oz by which deliveries exceeded 500 fine oz. The benefit under this provision terminated when deliveries in a year reached 1,100 fine oz. Where a producer received an amount in excess of \$31.25 per fine oz on market sales of gold, the subsidy payable was, with effect from 1 January 1972, reduced by fifty per cent of the amount of the excess. Increases in the market price of gold since 1972 have resulted in a decline in subsidy payments in succeeding years.

Payments under the Act applied to production until 30 June 1975 when the application of the Act expired. The amounts paid to gold producers in recent years are shown in the table below.

Assistance to the producers of sulphuric acid and iron pyrites. The Sulphuric Acid Bounty Act 1954 and the Pyrites Bounty Act 1960 expired on 31 May 1972. The Acts provided for payment of bounty on sulphuric acid produced from prescribed Australian materials, and to producers of iron pyrites. Payments under these Acts for recent years are shown in the table below.

Payments to producers of phosphate fertilisers. The Phosphate Fertilisers Bounty Act 1963 provides for a bounty to be paid on superphosphate and ammonium phosphate manufactured and used in Australia as a fertiliser. (This includes approved trace elements, compounds or substances when added to superphosphate). Bounty is payable on the soluble content of phosphorus pentoxide. A standard grade of superphosphate containing between 19.5 and 20.5 per cent soluble content of phosphorus pentoxide qualifies for full bounty of \$11.81 per tonne. Outside this range, bounty is payable at \$59.05 per tonne of contained phosphorus pentoxide. The intention of this Act is to assist consumers of phosphate fertilisers (primary producers). The Act expired on 31 December 1974 but the Government has re-introduced the bounty from 11 February 1976 to 30 June 1977. Payments under the Act, are set out in the following table.

COMMONWEALTH GOVERNMENT PAYMENTS TO THE MINERAL INDUSTRY AND TO THE MANUFACTURING INDUSTRY FOR PRODUCTS OF MINERAL ORIGIN: AUSTRALIA

(\$'000)

| Year | | Petroleum exploration (a) | Gold mining(b) | Pyrites mining(c) | Sulphuric acid production (d) | Phosphate fertiliser production (e) |
|------|--|---------------------------------|-------------------|----------------------|--|--|
| 1971 | | 8,468 | (f)2,162 | 568 | 489 | 40,815 |
| 1972 | | 8,422 | (f)1,185 | 962 | 527 | 49,137 |
| 1973 | | 9,611 | (f)49 | | | 66,962 |
| 1974 | | 7,397 | (g)-1 | | | 29,507 |
| 1975 | | 3,039 | •• | | • • | • • • |

⁽a) Petroleum Search Subsidy Act 1959. Includes payments in Papua New Guinea; see also the table on page 964. (b) Gold-Mining Industry Assistance Act 1954. This Act expired 30 June 1975. (c) Pyrites Bounty Act 1960. This Act expired on 31 May 1972. (d) Sulphuric Acid Bounty Act 1954. This Act expired on 31 May 1972. (e) Phosphate Fertilisers Bounty Act 1963. (f) Includes payment in Papua New Guinea. (g) Repayment of advance.

Bureau of Mineral Resources, Geology and Geophysics. The functions of BMR are as follows:

- (i) as a primary function, to obtain, study, publish and provide basic geological and geophysical information necessary for the exploration and development of the nation's mineral resources; this to be done where appropriate in co-operation with State and Territorial authorities;
- (ii) to undertake experimental studies and research into geology and geophysics in order to support the function of obtaining basic information;
- (iii) to make basic investigations of the earth's magnetic and gravitational fields and in seismology and vulcanology;
- (iv) to complement the work of the State and Territorial authorities by undertaking geological and geophysical investigations into the occurrence and distribution of underground water;
- (v) to undertake geological and geophysical investigations on behalf of other Commonwealth Government Departments and authorities including the provision of resident staff by arrangement with the Territories;
- (vi) to obtain basic information on, and review the mineral resources of Australia and its Territories; to study the various sectors of the mineral industry both in the national and international spheres; to publish and provide information about the mineral industry;
- (vii) to undertake such investigations in mining engineering and petroleum technology as are relevant to (i) and (vi) above;
- (viii) to prepare advice for Government on the mineral industry, including the exploration and development of mineral resources in the national interest;
 - (ix) when directed by Government, to administer schemes for the assistance of sectors of the mineral industry and to undertake special mineral projects.

BMR comprises five branches under the Director: Operations, Mineral Resources, Geological, Geophysical, and Petroleum Exploration. The Operations Branch consists of four sections, Planning and Co-ordination, Publications and Information, Automatic Data Processing Applications and Administrative. It carries out central office functions, including planning and control of program, assessment of results, co-ordination of activities, liaison, distribution of information and provision of ADP services. The Mineral Resources Branch comprises the sections Mineral Economics, Mining Engineering, and Petroleum Technology, and is concerned largely with those aspects of

BMR's work which involve studies of the mineral industry as a whole, and the preparation of advice and reviews for the Government, industry and the public. The Geological and Geophysical Branches are responsible for the principal field activities of BMR, and the operation of observatories, while the Petroleum Exploration Branch is concerned with the technical administration of the Petroleum (Submerged Lands) Act 1967 and the assessment of sedimentary basins in Australia and its Territories. The establishment of BMR is 636 officers (at 31 December 1975) and includes 270 professional officers (geologists, geophysicists, chemists, engineers and mineral economists).

BMR maintains a laboratory in Canberra which is engaged on geochemical, geochronological and petroleum technological studies and basic research into the design and testing of geophysical equipment. It also maintains geophysical observatories at Toolangi (Victoria), Mundaring (Western Australia), Port Moresby (Papua New Guinea), Mawson (Antarctica), and Macquarie Island. The geophysical observatories are engaged in magnetic, ionospheric, and seismic investigations and are base stations for field operations.

State Government assistance

In addition to free assays and determinations of rocks and minerals carried out for prospectors by the Mines Departments of the States and Territories, technical officers of these departments provide advice to the mining and allied industries where required, carry out field examinations of mining prospects, advise on exploration and development, select sites for water supply, and in general give a free technical service to the mining industry.

New South Wales. The State Mines Department renders scientific, technical and financial assistance to the mining industry. Grants are made to cover up to half the cost of prospecting and drilling operations. These grants are repayable if sufficient pay minerals are discovered or if certain other conditions are met. A quantity of equipment is also available for hire in several localities. The Department has itself undertaken a program of contract drilling to investigate the existence of mineral deposits in the State (including the testing and proving of coal resources). Expenditure on financial assistance in 1974–75 amounted to \$523,636 including \$154,034 on the Department's own drilling program.

Victoria. The Mines Department conducts geological and mineral surveys and produces geological maps and issues scientific and technical reports thereon. Extensive rotary, percussion and auger drilling operations are carried out and in conjunction with these, sedimentary basin studies are made to evaluate petroleum, mineral and groundwater potential. A comprehensive library and a geological museum are maintained and a core library retains cores and cuttings from drilling operations. The administration of petroleum, pipeline, mining and extractive industry legislation ensures that petroleum exploration and production, both on-shore and off-shore, mining and quarrying are carried on in a safe and effective manner. Technical and drilling assistance and loans or grants are available for mineral exploration and prospecting and for approved development operations. Six stamp batteries provide an ore crushing service to enable test crushings to be made at nominal cost. Information is available on mining law and mineral statistics. Assays of ores, analytical services, advice on metallurgical treatments, industrial pollution and chemical problems are available together with information on the manufacture, handling and use of explosives and inflammable liquids. Financial assistance is available to municipalities to reclaim mine-damaged land, in areas where a Reclamation Committee recommends such action.

Queensland. The Department of Mines provides assistance to mining by way of geological services, grants for construction and maintenance of roads in mining areas, repayable advances or subsidies for mine development, hiring of equipment, and assistance to prospectors. The Department maintains a concentration plant for tin ores at Irvinebank, an assay office at Cloncurry and diamond drilling plants in various parts of the State. The Queensland Coal Board carries out research and sampling tests of Queensland coals. It also makes funds available to colliery proprietors for equipment and makes grants and/or loans for the provision of amenities for employees and for communities in coal mining districts.

South Australia. The Department of Mines provides the following services and facilities to the mineral industry: (i) drilling and testing of mineral deposits, geophysical investigations, well logging development of sub-surface water supplies for farming, pastoral, irrigation, and mining purposes; (ii) geological examination of mineral deposits, ground water supplies, dam foundation and drainage problems, and publication and issue of geological bulletins and maps. It also provides, through the Australian Mineral Development Laboratories, facilities for chemical, metallurgical, analytical and assay investigations, testing and treatment of ores and minerals, and petrographic, mineragraphic and radiometric determinations. Pilot scale metallurgical and chemical treatment plants are maintained and operated for the development of mineral extraction processes.

Western Australia. Prospectors receive assistance of either \$15 or \$17.50 a week according to the prospecting locality. North of the 26th parallel and within a defined area south of this, lying largely outside the agricultural areas, assistance is given to the extent of \$17.50 a week. In the remainder of the State prospectors receive \$15 a week. Provision is also made for the supply of some tools required for prospecting. There are sixteen State batteries operating intermittently throughout the goldfields for the treatment of ore from prospectors and small mine owners at a nominal charge. A cartage subsidy is also granted to such operators sending gold and lead ores to State batteries for treatment. Provision is made for loans to mine-owners who require assistance to develop mines.

Tasmania. The Department of Mines provides financial assistance to mining lessees for the purchase of plant and machinery, for sinking, repairing or de-watering of shafts, for construction of dams and water races, for testing and proving a deposit of any mining product, for developmental work, and for diamond and other types of drilling. The Department has available for hire, percussion and diamond drills for exploration, as well as a complete plant for small shaft sinking and tunnelling. Other assistance is rendered to the industry in the form of geological and engineering advice, through ore-dressing research into metallurgical recoveries, and the selection and design of treatment plant.

Northern Territory. To encourage the development of the mining industry the Mines Branch of the Department of the Northern Territory operates two batteries for the treatment of ores for miners. The Tennant Creek Battery is treating parcels of gold ore. The Mount Wells Battery is crushing parcels of gold, tin, lead, copper and wolfram ore, including experimental work for more complex ores. The crushing charges are subsidised by the Government. Mining plant such as drills, compressors, pumps, and small hoists are available for hire to prospectors. Financial assistance is available to prospectors for mine development such as shaft sinking, driving, rising or winzing, and cartage subsidies. Roads and water supply services are provided and maintained for mines under active development throughout the Northern Territory.

The Northern Territory Geological Survey undertakes geological and geophysical investigations including some engineering geology projects, and is also available to assist with the evaluation of individual mineral occurrences for prospectors and exploration companies. Technical libraries and collections of drill cores and cuttings are maintained in Darwin, Alice Springs and Tennant Creek.

Research

Research investigations into problems of mining, ore-search, ore-dressing and metallurgy are conducted by Government bodies, by universities, by private enterprise, and by combined efforts of these bodies. A summary of their functions follows. (For further information on research see Chapter 28 Science and Technology).

Australian Atomic Energy Commission

The Australian Atomic Energy Commission conducts research at its laboratories at Lucas Heights in Sydney on the development of nuclear power, including research on nuclear materials and on metals and ceramics used for nuclear power.

The Australian Mineral Development Laboratories

Technical consulting, contract research and process design for the mineral and associated industries is undertaken by The Australian Mineral Development Laboratories (Amdel), at Adelaide. This organisation is controlled by a council comprising representatives of the mineral industry, the South Australian Government and the Commonwealth Government. Extensive facilities are available in the fields of analytical chemistry, mineralogy and petrology, chemical metallurgy and mineral engineering, operations research/computer services and materials technology. Both long and short term applied research is carried out and all investigations are conducted on a strictly confidential basis. Services in the field of pollution and environmental control are also available through the Amdel group Amdel (Aspect).

The Baas Becking Geobiological Research Laboratory

In 1965 the Baas Becking Geobiological Research Laboratory was established in the Bureau of Mineral Resources Building in Canberra, under the joint sponsorship of the Commonwealth Scientific and Industrial Research Organization, the Bureau of Mineral Resources, and the Australian Mineral Industries Research Association (see Research by private enterprise, page 942). The broad objective of the research work is to investigate the biological and chemical processes associated with the formation of mineral deposits of the stratiform type.

Emphasis is placed on investigations to establish the relationship of biological factors to the natural physico-chemical environment with particular reference to the possible role of these factors in the formation and transformation of sulphide minerals. Investigations have included the response of micro-organisms to heavy metals; biochemistry and physiology of oxidative and reductive sulphur transformations; role of organisms in the concentration of mineral elements; physico-chemistry of low-temperature mineral synthesis; and mobility of sulphides under the influence of temperature and pressure and the interaction of mineral types.

Bureau of Mineral Resources, Geology and Geophysics

The Bureau of Mineral Resources is the largest geoscience research organisation in Australia. Its work is directed towards an integrated study of the origin, composition and structure of the rocks forming the Australian continent—to the lower limits of the continental slope—particularly as these affect the genesis and distribution of mineral deposits. The main effort is in field research supported and complemented by laboratory and office studies. BMR's activities include:

Geological, geophysical, and geochemical surveys to provide the basic information for further studies.

Compilation, review, and synthesis of information on and detailed investigations of sedimentary basins and metallogenic provinces, leading to an understanding of their origin and history, and to assessment of their prospectiveness.

Studies of specific commodities, including research into the occurrence and origin of their deposits, assessment of potential for new discoveries, resource inventories, and market trends.

Engineering geology, urban geology and hydrogeological investigations.

Maintenance of seismological and magnetic observatories, and related studies.

Assessment of geophysical techniques in Australian conditions, and development of new techniques and equipment.

Fundamental geoscience research, with an orientation to the activities listed above.

Provision and dissemination of the results of BMR's work and information on the geosciences generally.

For details of the functions of the Bureau of Mineral Resources, Geology and Geophysics, see page 938.

Commonwealth Scientific and Industrial Research Organization

Mineral research by the Commonwealth Scientific and Industrial Research Organization is undertaken mainly in the Minerals Research Laboratories comprising the Divisions of Chemical Engineering, Mineral Chemistry, Mineralogy, and Mineral Physics and Process Technology. Major laboratories are located at Clayton (Vic.), Port Melbourne, Sydney and Perth. Current research program objectives and sub-program titles are:

- (a) Exploration methods. To improve and develop procedures for locating mineral deposits (geochemical techniques, geophysical techniques, geological pattern recognition).
- (b) Mineralisation. To improve methods of recognising and defining the nature and economic significance of specific types of mineralisation (nickel deposits, other deposits, hydrogeochemistry, geobiology, mineralogical research techniques).
- (c) Mining and concentration. To identify, and utilise in practice, those properties of minerals and rocks that will increase the overall efficiency of their mining, concentration and handling (rock properties, mineral dressing, transport and fill, iron ores).
- (d) Process metallurgy and engineering. To initiate or improve methods for the scientific development of Australia's natural resources (process control, process development, structures and bonding, hydrometallurgy and pyrometallurgy).
- (e) Environment. To protect and improve the quality of the human and natural environment by applying the skills and expertise available in the Minerals Research Laboratories (air quality, solid and liquid wastes).
- (f) Energy. To support national plans developed to ensure the availability of energy in forms required by consumers and based on indigenous resources (coal utilisation, coal and oil resource characterization, coal winning, low energy metallurgy, storage and conversion).

The minerals industry provides strong support in the form of co-operative research planning, collaborative investigation of specific projects, and financial grants for appropriate developmental work.

National Coal Research Advisory Committee

The National Coal Research Advisory Committee was established in December 1964, following agreement between the Commonwealth Government, State Governments and private industry, for increased applied research in Australia into coal utilisation. This was later extended to cover research

into coal winning and beneficiation. Initially a pool of funds amounting to \$520,000 per annum was jointly contributed for the sponsorship of this research. These funds were allocated on the advice of the Committee, whose membership was representative of the contributing groups. This agreement was terminated on 30 June 1969, and a new National Coal Research Advisory Committee was nominated by the Commonwealth Government alone. A sum of up to \$260,000 per year for up to three years was set aside by the Government for allocation on the advice of this Committee.

As from 30 June 1972, the scheme of assistance to coal research was extended for a further five years, with yearly allocations of \$260,000. In 1974–75 the yearly allocation was increased by \$100,000 to \$360,000 for the specific purpose of initiating an 'oil-from-coal' research program in Australia. The allocation of \$360,000 was maintained in 1975–76.

The major beneficiary under this scheme is the Australian Coal Industry Research Laboratories; other beneficiaries are University Departments.

The functions of the Committee are:

- (a) To keep under review all coal research carried on throughout Australia and overseas, in relation to conservation, winning, beneficiation and utilisation.
- (b) To reach conclusions on scientific, technical and economic grounds as to the directions in which this research in Australia should be strengthened.
- (c) To review annually all relevant research programs in Australia, and to recommend to the Minister for National Resources those programs that should be supported, and the amount of financial contributions which should be made to each of them from the funds provided.

University Research

The various universities in Australia carry out research into various aspects of the mineral industry such as geology, ore mineralogy and genesis, mining techniques, mineral processing, extractive metallurgy, and materials and metals technology.

Research by private enterprise

Most large mining and smelting companies have laboratories dealing with their own individual problems. Private industry formed the Australian Mineral Industries Research Association in 1959 to provide industry with representation in the management of the Australian Mineral Development Laboratories. The Association now finances research work into geology, mining and mineral processing at Universities, CSIRO and the Australian Mineral Development Laboratories. Membership of the Association at 30 June 1975 was: full members 50, associate members 22, registered divisions 11. Expenditure on research projects during the year 1974–75 was \$421,364.

International relations

Because Australia is a large supplier of certain minerals to the rest of the world and because the welfare of the domestic industry depends to a large extent on the maintenance of a high level of exports, international relations are of considerable importance to the industry, and the Commonwealth Government takes an active role in international consultations and discussions relating to minerals. The most important international commitments are discussed below.

International Tin Agreement

The first International Tin Agreement (of the post-war period) was in operation for five years from 1 July 1956 to 30 June 1961. This Agreement was subsequently replaced by the Second and Third International Tin Agreements, which came into force on 21 February 1962 and 21 March 1967, respectively. Details of these Agreements are given in Year Book No. 57, pages 911–12.

Australia has signed and ratified the Fourth International Tin Agreement which came into operation on 1 July 1971 for a period of 5 years. Australia joined the Fourth Agreement as a 'producing' (i.e. exporting) member, whereas in the past Agreements Australia's status had been that of a 'consuming' (i.e. importing) member. This stems from the fact that Australia's tin production has increased significantly over recent years making it a net exporter of tin.

The objectives of this Agreement are the same as for its predecessors. Producing countries are required to contribute to a buffer-stock-equivalent in cash or tin up to 20,000 tonnes of tin metal, which is used to buffer short-term fluctuations in the world market price. In the event of persistent market disequilibrium through causes beyond the ability of the buffer stock mechanism to control, the agreement also provides for the regulation of exports and stocks to stabilise the market. The main provisions of the Fourth Agreement are substantially the same as those of the Third. However, the Buffer Stock Manager, a paid Council employee charged with operating the buffer stock, has been given somewhat greater flexibility in reacting-to market situations.

The International Tin Agreement is operated by the International Tin Council, which is made up of the following Governments: *Producers*—Australia, Bolivia, Indonesia, Malaysia, Nigeria (Federal Republic of), Thailand, Zaire (Republic of). *Consumers*—Austria, Belgium-Luxembourg, Bulgaria, Canada, Czechoslovakia, Denmark, France, Germany (Federal Republic of), Hungary, India, Italy, Japan, Korea (Republic of), Netherlands, Poland, Romania, Spain, Turkey, United Kingdom, Union of Soviet Socialist Republics and Yugoslavia. The producing countries hold a total of 1,000 votes, distributed so that each country receives five initial votes and an additional number corresponding to its percentage as laid down by the Agreement. The consuming countries hold a total of 1,000 votes also distributed so that each country receives five initial votes and an additional number proportionate to quantities consumed. The allocation of votes in each category is periodically reviewed.

The International Tin Agreement establishes floor and ceiling prices for tin and, by the medium of a buffer stock and remedial trading on the London Metal Exchange, aims at confining the price within these limits. Because of a world over-supply situation of tin, the Council imposed export controls on producer members for the period January-September 1973.

International Lead-Zinc Study Group

With the cessation of stockpile buying of lead and zinc by the United States Government in 1958, world producers were faced with the prospect of a serious imbalance between world supply and demand for these metals. To meet this problem a series of meetings of interested governments was held, at which Australia was represented. These meetings culminated in the formation of the International Lead-Zinc Study Group which was established in January 1960. The Study Group comprises the following Governments: Algeria, Australia, Austria, Belgium, Bulgaria, Canada, Czechoslovakia, Denmark, Finland, France, the Federal Republic of Germany, Hungary, India, Italy, Japan, Mexico, Morocco, the Netherlands, Norway, Peru, Poland, the Republic of South Africa, Spain, Sweden, Tunisia, the Union of Soviet Socialist Republics, the United Kingdom of Great Britain and Northern Ireland, the United States of America, Yugoslavia and Zambia. The Group provides opportunities for inter-governmental consultations on international trade in lead and zinc and for studies of the world situation in lead and zinc having regard especially to the desirability of providing continuous accurate information regarding the supply and demand position and its probable development.

MINERAL INDUSTRY STATISTICS

Statistics presented in this chapter refer mainly to the mining industry, mineral production, mineral exploration, and overseas participation in the Australian mining industry. In addition to the mining industry, data relating to mineral processing and treatment and overseas trade are included to give more information about the mining industry and other associated activities in the Australian economy.

Mining industry statistics

This section contains statistics of the mining industry for all States and Territories and Australia obtained from the annual Mining Censuses.

Prior to 1968-69 the Annual Mining and Quarrying Census related to years ended 31 December. However, commencing with 1968-69, the Mining Census was changed to a year ended 30 June to conform with the period covered by other economic censuses in Australia. There are several other differences between the censuses of 1968-69 and later years, and those for earlier years (mainly in definition, scope and coverage) and as a result the statistics obtained for 1968-69 and later, are not strictly comparable with those for earlier years. Further information regarding these differences is given in Year Book No. 57, pages 912-914. Mining industry statistics for years prior to 1968-69 are also contained in Year Book No. 57 and earlier issues.

For the year ended June 1969, the Mining Census (including quarrying) was conducted for the first time on an integrated basis with Censuses of Manufacturing, Electricity and Gas, Retail Trade and Selected Services, and Wholesale Trade.

Briefly, the integration of these economic censuses was designed to increase substantially the usefulness and comparability of economic statistics collected and published by the ABS, and to form a basis for the sample surveys which supply current economic statistics from quarter to quarter, particularly those which provide data for the quarterly national income and expenditure estimates. A detailed description of the integrated censuses is contained in Chapter 31, Year Book No. 56.



For 1969-70 and subsequent years the annual Mining Census has been conducted on the same basis as that for 1968-69.

The table below shows key items of data for Australia for 1974-75 and summary data for 1970-71 to 1973-74. Each following table shows statistics for a particular item for all States and Territories and Australia for 1974-75 and summary data for 1970-71 to 1973-74, and is preceded by an explanation of the item.

MINING ESTABLISHMENTS: SUMMARY OF OPERATIONS BY INDUSTRY SUB-DIVISION AUSTRALIA

| | ASIC | Number of estab- lish- ments operat- ing at end of | Persons end of J | : employed June(b) | at | Wages | <i>T.</i> | Stocks (30 June | at | Pur- chases, transfers in and | Value | Fixed capital expenditure (outlay on fixed tangible assets less dis- |
|---|--------------|---|----------------------------|-----------------------|----------------------------|--------------------|-------------------------------------|---------------------|--------------------|--|-------------------------------------|--|
| Industry sub-division | code(a) | June | Males | Females | Total | and salaries | Turn- over | Opening | Closing | selected expenses | added | posals) |
| 1974-75 | | No. | No. | No. | No. | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 |
| Metallic minerals . | . 11 | (c)208 | 32,570 | 2,502 | 35,072 | 336,220 | 1,811,929 | 159,578 | 212,586 | 630,049 | 1,234,887 | 274,993 |
| Coal . Crude petroleum inclu | | | 24,193 | 483 | 24,676 | 265,190 | 1,574,089 | 57,299 | 90,329 | 400,519 | 1,206,599 | 186,972 |
| ing natural gas . Construction materials Other non-metallic | . 13 . 14 | | 6,050 | 512 | 6,562 | 52,980 | 238,565 | 15,374 | 23,031 | 96,834 | 149,389 | 19,177 |
| minerals | . 15 | (c)269 | 2,634 | 178 | 2,812 | 22,214 | 93,047 | 10,039 | 14,487 | 47,300 | 50,195 | 15,032 |
| Total mining, excluding services to mining 1974–75(c) 1973–74(c) 1972–73(c) | ng | 1,315 1,315 1,330 | 65,447 61,006 60,140 | 2,920 | 69,122 64,056 63,060 | 481,006 402,894 | 3,717,629 2,798,062 2,265,129 | 216,389 210,951 | 242,586 211,775 | | 2,641,069 1,996,096 1,597,301 | 338,573 322,930 |
| 1971–72(c) . 1970-71 . | : | 1,410 1,512 | 60,222 59,816 | 2,957 2,826 | 63,179 62,642 | 373,999 325,178 | 1,994,261 1,814,918 | 165,244 | 211,178 157,365 | | 1,428,307 1,289,495 | |

⁽a) Australian Standard Industrial Classification. (b) Includes working proprietors. (c) Excludes some very small insignificant establishments. Other than "Number of establishments", these exclusions do not effect any figures by more than one per cent.

Number of establishments

The following table shows the number of establishments operating at end of June. These relate to mining establishments as such and do not include the numbers of separately located administrative offices and ancillary units.

MINING ESTABLISHMENTS: NUMBER OF ESTABLISHMENTS OPERATING AT END OF JUNE BY INDUSTRY SUB-DIVISION

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|-----------------|---|---------------------------------|--|------------------------------|---------------------------------|----------------------------------|----------------------------|------------------------|---|
| 1974–75 | | | | | | | | | | |
| Metallic minerals | 11 | (b)59 | 7 | (b)40 | 7 | 69 | (b)16 | 10 | | (b)208 |
| Coal | 12 | 95 | 5 | 27 | 1 | 3 | 1 | | | 132 |
| Crude petroleum including | | | _ | | _ | _ | _ | | | |
| natural gas | 13 | | 2 | 4 | 1 | 2 | | | | 9 |
| Construction materials . | 14 | (b)205 | 213 | 156 | 54 | 30 | 26 | 5 | 8 | (b)697 |
| Other non-metallic min- | | (0)200 | 2 | | • • | | | - | _ | (-, |
| erals | 15 | (b)130 | 38 | 30 | 28 | 30 | 13 | | | (b)269 |
| Total mining, excluding services to mining 1975 | | (b)489 (b)498 (b)532 (b)572 614 | 265 275 261 264 266 | (b)257 (b)241 (b)240 266 292 | 91 86 94 104 122 | 134 138 131 115 122 | (b)56 (b)56 48 53 64 | 15 15 15 26 24 | 8 6 9 10 8 | (b)1,315 (b)1,315 (b)1,330 (b)1,410 1,512 |

⁽a) Australian Standard Industrial Classification.

⁽b) Excludes some very small, insignificant establishments.

Employment

The statistics of the number of persons employed shown in the following table relate to working proprietors at the end of June and employees on the payroll of the last pay period in June, including those working at separately located administrative offices and ancillary units in the State. Note that persons employed in each State (and their wages and salaries) relate to those employed at establishments, administrative offices or ancillary units located in the State, even though the administrative offices or ancillary units may have served establishments located in another State.

MINING ESTABLISHMENTS: MALES, FEMALES AND PERSONS EMPLOYED(a)
BY INDUSTRY SUB-DIVISION, AT END OF JUNE 1975

| Industry sub-division | ASIC code(b) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|--------------------|--|---|--|---|--|---|---|-----------------------------|--|
| | | | MALES | EMPLO | YED | | | | | |
| 1974-75— Metallic minerals Coal Crude petroleum including natural gas Construction materials Other non-metallic mineral Total mining, excluding ser | 13 J 14 5 15 | 14,962 | 2661 1,866 233 | 8,334 5,252 (c) 1,181 (c) | 1,798 509 309 | 11,586 957 414 673 | 3,924 (c) 163 (c) | 1,031 ⁶⁴ { | ;;;} | 32,570 24,193 6,050 2,634 |
| vices to mining— 1975 | | 23,894 22,582 22,843 24,192 24,640 | 4,760 4,796 5,132 5,560 5,189 | 15,119 13,595 12,955 12,308 11,859 | 2,616 2,302 2,354 2,293 1,866 | 13,630 12,102 11,221 9,816 10,285 | 4,232 4,139 4,150 4,449 4,463 | 1,095 1,415 1,409 1,513 1,427 | 101 75 76 91 87 | 65,447 61,006 60,140 60,222 59,816 |
| | | F | EMALE | S EMPI | OYED |) | | | | |
| 1974-75— Metallic minerals Coal Crude petroleum including natural gas Construction materials Other non-metallic minerals | 13 J 14 | 219 - 186 { 92 64 | 159 { 206 13 | 664 105 (c) 91 | 197 { 43 7 | 1,144 | 211 (c) 4 (c) | 84 | ::} | 2,502 483 512 178 |
| Total mining, excluding services to mining— 1975 1974 1973 1972 1971 | • | 561 579 576 662 642 | 378 354 394 455 394 | 882 738 733 735 690 | 247 177 196 218 128 | 1,301 943 780 621 704 | 218 178 176 191 197 | 85 80 64 74 68 | 3 1 1 1 3 | 3,675 3,050 2,920 2,957 2,826 |
| | | P | ERSON | S EMPL | OYED |) | | | | |
| 1974-75— Metallic minerals Coal Crude petroleum including natural gas Construction materials Other non-metallic minerals Total mining, excluding ser- | 13 J 14 15 | 6,395 15,148 < 1,844 1,068 | 2820 2,072 246 | 8,998 5,357 (c) 1,272 (c) | 1,995 { 552 316 | 12,730 970 486 745 | 4,135 (c) 167 (c) | 1,115 65{ | 104 | 35,072 24,676 6,562 2,812 |
| vices to mining 1975 | | 24,455 23,161 23,419 24,854 25,282 | 5,138 5,150 5,526 6,015 5,583 | 16,001 14,333 13,688 13,043 12,549 | 2,863 2,479 2,550 2,511 1,994 | 14,931 13,045 12,001 10,437 10,989 | 4,450 4,317 4,326 4,640 4,660 | 1,180 1,495 1,473 1,587 1,495 | 104 76 77 92 90 | 69,122 64,056 63,060 63,179 62,642 |

⁽a) At end of June; includes working proprietors. available for publication.

⁽b) Australian Standard Industrial Classification.

⁽c) Not

Mining accidents

Particulars of numbers of persons killed and injured in accidents in mines and associated treatment plants are recorded by State Mines Departments. Numbers injured are not reported on a uniform basis in all States, as varying criteria are used in determining what constitutes injury. A table setting out mining accidents by States is shown below.

MINING ACCIDENTS(a)

| | | | Metal mining | | Fuel mining | | Construc material quarryin | | Non-met (excludir mining | | Total min | | |
|--------------------|-------|------|---------------------|---------|----------------|----------------------|----------------------------------|----------------------|--------------------------------|----------------------|-----------|----------------------|--|
| | | | Number casualtie | | | Number of casualties | | Number of casualties | | Number of casualties | | Number of casualties | |
| | | | Killed | Injured | Killed | Injured | Killed | Injured | Killed | Injured | Killed | Injured | |
| 1974-75— | | | | | | | | | | | | | |
| New South Wales | | | 1 | 173 | 12 | 53 | 1 | 7 | | 15 | 14 | 248 | |
| Victoria | | | 1 | | | 32 | | (c)42 | | (c)1 | 1 | (c)75 | |
| Queensland . | | | 2 | 162 | 4 | 242 | | 7 | | 8 | 6 | 419 | |
| South Australia | | | | 35 | | 5 | 1 | 17 | | 2 | 1 | 59 | |
| Western Australia | | | (c)13 | (c)534 | 1 | 143 | 1 | 10 | 1 | 23 | (c)16 | (c)710 | |
| Tasmania | | | 4 | 192 | | 2 | | 1 | | 1 | 4 | 196 | |
| Northern Territory | | | 1 | 34 | | | | | | | 1 | 34 | |
| Australian Capital | Terri | tory | • • | | • • | • • | (b) | (b) | | | (b) | (b) | |
| Australia(b)(c) | | | 22 | 1,130 | 17 | 477 | 3 | 84 | 1 | 50 | 43 | 1,741 | |
| 1973-74(b) | | | 19 | 1,046 | 10 | 478 | 6 | 111 | 3 | 50 | 38 | 1,685 | |

⁽a) See text regarding comparability between States. (b) Mining accident data for construction material quarrying in the A.C.T. are not available. (c) These figures include some accidents in the mineral processing industry, and, in Western Australia, in electricity generating plants at the mine site.

Wages and salaries

The following table shows the wages and salaries of all employees of the establishment, including those working at separately located administrative offices and ancillary units in the State. Drawings of working proprietors are not included.

MINING ESTABLISHMENTS: WAGES AND SALARIES BY INDUSTRY SUB-DIVISION (\$'000)

| | ASIC ode(a) | N.S.W. | Vic. | Qld | S.A. | IV.A. | Tas. | N.T. | A.C.T. | Aust |
|---|----------------------|-------------------|--------|---------------|--------|------------------|---------|--------|--------|---------|
| 974-75 | | 50.550 | | | | | 40.000 | | | 226.000 |
| Metallic minerals . | . !!, | 59,779 _] | | [88,804] | - 1 | ̃ 117,158 | 40,993 | 15,387 | ••• | 336,220 |
| Coal Crude petroleum includin natural gas | . 12` g . 13 j | ≻164074⊀ ſ | 31,080 | 58,385 (b) | 16,706 | 8,445 | (b) | •• | } | 265,190 |
| Construction materials Other non-metallic min | . 14 | 15,522 | 16,033 | 9,208 | 4,179 | 5,580 | 1,041 \ | 536 S | 897 | 52,980 |
| erals . | . 15 | 7,613 | 2,125 | (b) | 2,272 | 6,781 | (b)∫ | 320} | | 22,214 |
| Total mining, excluding services to mining- | ; | | | | | | | | | |
| 1974–75 | | 246,988 | 49,238 | 159,420 | 23,158 | 137,964 | 43,026 | 15,913 | 897 | 676,604 |
| 1973–74 | | 171,521 | | 114,602 | 15,115 | 96,255 | 30,623 | 12,937 | 616 | 481,006 |
| 1972–73 | | 149,950 | 33,154 | 95,039 | 13,367 | 71,946 | 28,091 | 10,843 | 503 | 402,894 |
| 1971–72 | | 147,098 | 32,194 | 83,087 | 12,255 | 62,388 | 26,458 | 10,066 | 453 | 373,999 |
| 1970-71 | | 131,973 | 27.518 | 69.211 | 8.459 | 55,941 | 22,641 | 8,702 | 471 | 324,915 |

⁽a) Australian Standard Industrial Classification.

Turnover

The following table shows turnover (sales of minerals and other goods whether produced by the establishment or not, plus transfers out of minerals and other goods to other establishments of the same enterprise, plus all other operating revenue from outside the enterprise, such as commission, repair and service revenue). This item excludes rents, leasing revenue, interest, royalties, and receipts from the sale of fixed tangible assets.

⁽h) Not available for publication.

MINING ESTABLISHMENTS: TURNOVER, BY INDUSTRY SUB-DIVISION (\$'000)

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|-----------------|---------|-------------|---------|---------|-----------|----------------|-----------|--------|-----------|
| 1974-75 | | | | | | | | | | |
| Metallic minerals | . 11 | 247,082 |) f | 375,766 | | 915,753 | 120,489 | 89,589 | | 1,811,929 |
| Coal | . 12 | 557,381 | 474,209 | 466,423 | 83,089 | ון ו | (b) | ٠ | • • • |) |
| Crude petroleum in- | | | (4/4,203) | (| 05,005 | > 52,594 | { `` | | | 1,574,089 |
| cluding natural gas . | | ر ا | | (b) J | | U | ι | | • • • | |
| Construction material | s 14 | 74,894 | 76,044 | 42,670 | 15,142 | 18,826 | ັ 4,871) | | 4,111 | 238,565 |
| Other non-metallic | | | | | | | } | - 2,006 ∤ | | |
| minerals . | . 15 | 31,179 | 10,197 | (b) | 14,967 | 23,489 | (<i>b</i>) ∫ | | | 93,047 |
| Total mining, excluding services to mining— | | | | | | | | | | |
| 1974-75 | _ | 910.536 | 560,449 | 899,390 | 113,198 | 1,010,661 | 127.688 | 91.596 | 4,111 | 3,717,629 |
| 1973-74 . | | 591,702 | 467,661 | 656,858 | 110,324 | 736,124 | 144,917 | 87,665 | 2.813 | 2,798,062 |
| 1972-73 . | | 499,187 | 377,783 | 462,594 | 108,608 | 653,049 | 95,350 | 66,010 | 2,547 | 2,265,129 |
| 1971~72 . | | 483,654 | 336,464 | 345,568 | 96,034 | 593,944 | 88,675 | 47,747 | 2,176 | 1,994,261 |
| 1970-71 . | | 473,497 | 270,659 | 323,536 | 96,856 | 527,107 | 78,057 | 41,336 | 2,187 | 1,813,235 |

⁽a) Australian Standard Industrial Classification.

Purchases, transfers in and selected expenses

The following table shows the total of purchases of electricity, fuels, stores and other materials, transfers in of goods from other establishments of the same enterprise, charges for processing and other commission work and payments to mining contractors, repair and maintenance expenses, outward freight and cartage, motor vehicle running expenses and sales commission payments.

MINING ESTABLISHMENTS: PURCHASES, TRANSFERS IN AND SELECTED EXPENSES BY INDUSTRY SUB-DIVISION, (\$'000)

| | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------------|---|---|--|---|--|--|--|--|
| | | | | 264.000 | | 24.500 | | |
| 11 69,784 | [| 87,781 | 1 | 361,872 | | 26,709 | | 630,049 |
| 12 200,704 | - 51,664 ₹ | 135,155 | 35,053 < | 7 254 | (6) | • • | • • | 400 610 |
| 12 | | (6) | 1 | 7,2341 | | | | 400,519 |
| | 35 723 | 18 211 | 4 447 | 7 8 755 | 2 5527 | | 2061 | 96,834 |
| 14 23,770 | 33,123 | 10,211 | 7,777 | 0,000 | 2,333 | . 717) | 2,901 | 70,034 |
| 15 17,101 | 5,965 | (b) | 8,583 | 7,787 | (b)∫ | ່ ''' ໄ | | 47,300 |
| | | | | | | | | |
| 212 266 | 02 252 | 340 000 | 40 002 | 104.060 | 57 276 | 27 426 | 1 252 | 1 174 703 |
| | | | | | | | | 1,174,702 |
| | | | | | | | | 828,164 668,651 |
| | | | | | | | | 611.888 |
| 183,509 | 52,470 | 83,101 | 31,894 | 146,904 | 21,408 | 19,989 | 921 | 540,195 |
| | 11 69,784 12 200,704 13 14 25,776 15 17,101 313,366 203,280 180,214 181,356 | (a) N.S.W. Vic. 11 69,784 12 200,704 13 25,776 35,723 15 17,101 5,965 313,366 93,352 203,280 77,247 180,214 60,666 181,336 53,953 | (a) N.S.W. Vic. Qld 11 69,784 12 200,704 51,664 | (a) N.S.W. Vic. Qld S.A. 11 69,784 12 200,704 31,14 25,776 35,723 18,211 4,447 15 17,101 5,965 (b) 8,583 133,366 93,352 248,880 48,082 203,280 77,247 166,155 43,893 180,214 60,666 141,686 36,041 181,356 53,953 117,519 33,922 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

⁽a) Australian Standard Industrial Classification.

Stocks

Statistics on the value of closing stocks are shown in the following table. Figures include stocks of materials, fuels, etc., and mine products and work-in-progress of the establishment whether located at the establishment or elsewhere.

MINING ESTABLISHMENTS: CLOSING STOCKS AT END OF JUNE BY INDUSTRY SUB-DIVISION (\$'000)

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--|-----------------|--|--|--|---|--|--|---|---------------------------------|---|
| | | | CLO | SING S | TOCKS | | | | | |
| 1975 Metallic minerals . Coal . Crude petroleum incling natural gas . Construction materia Other non-metallic minerals . | ls . 13 . 14 | 44,828 36,872 10,415 3,166 | 10,646 4,552 1,932 | 39,273 33,559 (b) 3,265 (b) | 17,027 1,213 1,911 | 83,693 2,347 { 2,482 5,278 | 17,172 (b) 4i9 (b) | 17,146 382 | 303 | 212,586 90,329 23,031 14,487 |
| Total mining, exclude services to mining 1975 1974 1973 1973 1972 1971 1971 | ling | 95,281 65,653 69,973 64,444 46,084 | 17,131 15,421 15,888 16,003 13,268 | 78,142 56,849 38,261 38,567 28,357 | 20,231 10,817 9,186 8,156 5,649 | 93,799 65,785 57,461 60,489 45,225 | 18,017 15,570 12,933 14,391 12,502 | 17,528 12,379 7,847 8,897 6,114 | 303 111 226 230 167 | 340,432 242,586 211,775 211,178 157,365 |

⁽a) Australian Standard Industrial Classification.

⁽b) Not available for publication.

⁽b) Not available for publication.

⁽b) Not available for publication.

Value added

The following table shows value added, calculated as the value of turnover (sales plus transfers out and other operating revenue) and closing stocks *less* purchases plus transfers in and selected expenses and opening stocks.

MINING ESTABLISHMENTS: VALUE ADDED, BY INDUSTRY SUB-DIVISION (\$'000)

| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|---|-----------------|---------|---------|---------|--------|-----------------|--------|---------|--------|-----------|
| 1974-75 | * | | | | | _ | | | | |
| Metallic minerals | . 11 | 186,024 |) (| 293,650 | ſ | 580,326 | 68,569 | 67,786 | • • • | 1,234,887 |
| Coal . Crude petroleum incl | | 372,699 | 422,823 | 343,810 | 57,296 | } 45,475 | (b) | •• | •• | 1,206,599 |
| ing natural gas | . 13 | 62.100 | 40.766 | (b) J | 10.057 | ا رین ل | 2,389) | •• | - 20: | |
| Construction materi | ials 14 | 53,188 | 40,755 | 26,152 | 10,857 | 11,661 | 2,389 | . 1 420 | 2,961 | 149,389 |
| minerals . | . 15 | 15,072 | 4,935 | (b) | 6,733 | 16,821 | (6) ∫ | 1,420 | | 50,195 |
| Total mining, exclude services to mining- | | | | | | | | | | |
| 1974-75 . | | 626,983 | 468,513 | 671,336 | 74,886 | 654,282 | 72,903 | 69,205 | 2,961 | 2,641,069 |
| 1973–74 . | | 384,563 | 389,313 | 503,099 | 67,830 | 493,992 | 85,321 | 70,193 | 1,785 | 1,996,096 |
| 1972–73 . | | 322,291 | 316,619 | 322,103 | 73,822 | 449,553 | 62,186 | 49,084 | 1,644 | 1,597,301 |
| 1971–72 . | | 320,351 | 283,445 | 239,208 | 64,707 | 424,008 | 59,317 | 35,826 | 1,444 | 1,428,307 |
| 1970–71 . | | 290,853 | 217,953 | 245,746 | 65,665 | 386,444 | 58,095 | 22,161 | 1,236 | 1,288,154 |

(a) Australian Standard Industrial Classification.

(b) Not available for publication.

Fixed capital expenditure

Figures in the following table relate to fixed capital expenditure. Such figures are calculated by deducting disposals of fixed tangible assets from the total outlay on new and second-hand tangible assets.

MINING ESTABLISHMENTS: FIXED CAPITAL EXPENDITURE (OUTLAY ON FIXED TANGIBLE ASSETS LESS DISPOSALS) BY INDUSTRY SUB-DIVISION

| | | | | (\$ 000) | | | | | | |
|---|-----------------|----------------|-----------------|-------------------|----------------|------------------|--------|----------------------|--------|---------------------|
| Industry sub-division | ASIC code(a) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
| 1974–75— | | | | | | _ | | | - | |
| Metallic minerals . | . 11 | 18,335 |) (| ົ 67,975 <u>)</u> | 1 | 142,807 | 18,129 | 14,700 | | 274,993 |
| Coal | . 12 | 57,765 | امدووما | 39,431 | 20.500 | ו ו | (b) | • • • | |) |
| Crude petroleum includi | ng | • | <i>76</i> ,880{ | i i | · 20,789 { | } 4,740 { | • • • | | | > 186,972 |
| natural gas | . 13 | |] (| (b) J | (|] [| | | | ſ · |
| Construction materials | . 14 | 4.627 | 6,847 ` | 3,005 | 1.971 | 1,582 | 7371 | 1 ()22 5 | 275 | 19,177 |
| Other non-metallic miner | | 4,627 2,155 | 450 | (b) | 1,971 2,335 | 1,582 ` 2,744 | (b) j | 7 ()32{ | | 19,177 15,032 |
| Total mining, excluding services to mining— | | · | | | • | | | | | |
| 1974-75 | | 82,882 | 84.177 | 117,774 | 25,094 | 151.872 | 19,430 | 14,668 | 275 | 496,174 |
| 1973–74 | | 41,975 | 44,013 | 113,007 | 23,327 | 96,862 | 13,159 | 6,155 | 74 | 338,573 |
| 1972–73 | | 41,566 | | 128,696 | 16,062 | 87,785 | 12,482 | 10,341 | 77 | 322,930 |
| 1971-72 | | 76,963 | | 155,810 | 12.082 | 167,174 | 16,532 | 21,672 | 44 | 482,611 |
| 1970-71 | - | 76,994 | 80,389 | 103,454 | 14,665 | 186,643 | 25,967 | 31,837 | 610 | 520,561 |
| | • | . 0,22 | 00,000 | 100, | , | ,- | , | , | | |

⁽a) Australian Standard Industrial Classification.

Mineral production

This section contains details of the output (quantities and values) of minerals during the year ended June 1975 for all States and Territories and Australia, together with information for Australia for the four preceding years.

Minerals are classified into five major groups, namely metallic minerals, coal, crude petroleum (including natural gas), construction materials and other non-metallic minerals. In the statistics published in this section the minerals are arranged in these five groups.

Mineral production statistics are derived from data collected in the annual mining census (which since 1968-69 has been collected on a June year basis), and in returns to the various State Mines Departments, supplemented in some cases by information made available by the Department of National Resources and by data compiled by the Australian Bureau of Statistics from other sources.

Scope of mineral statistics and relation to mining industry statistics

The statistics of mineral production for the years ended June 1969 and later years apart from the change to a June year basis, are comparable with those for earlier years. Although the integration of the mining census for 1968-69 with other economic censuses conducted in that year (manufacturing, electricity and gas, retail trade, and wholesale trade) was accompanied by major changes in the scope of the mining census and thus in the scope of the mining industry statistics, these changes had little effect on the scope of the mineral production statistics now published. This is because mineral

⁽b) Not available for publication.

production data were collected, not only from establishments coming within the scope of the mining census as now defined, but also from those establishments classified as non-mining establishments which, as a subsidiary activity, carried out mining or quarrying activities (e.g. brick and cement manufacturing establishments extracting clays, limestone), and from itinerant and part-time miners.

However, as in past years, coverage is deficient in the case of some minerals, principally because of the difficulties in obtaining complete lists of producers and collecting satisfactory returns.

Principles for measuring output of minerals

The quantities of individual minerals produced are recorded, in general, in the form in which the minerals are dispatched from the mine or from associated treatment works in the locality of the mine. Thus, for metallic minerals, the output is recorded as ore if no treatment is undertaken at or near the mine, and as concentrate if ore dressing operations are carried out in associated works in the locality of the mine. In addition to the basic quantity data, the content of metallic minerals (based on assay) are recorded. No allowance has been made for losses in smelting and refining and the quantities shown are therefore, in general, greater than the contents actually recoverable.

The output of individual minerals is valued at the mine or at associated treatment works in the locality of the mine. This valuation is derived, in general, by valuing the quantity produced during the year at the unit selling value (including any subsidy) less any transport costs from the mine or associated treatment works to the point of sale. For some metals, however, special values of output, based on actual or estimated realisations are supplied by certain large mineral producers.

It should be noted that, commencing with the year 1968-69, the output of minerals by enterprises for their own consumption in Australia has been valued on a different basis to that used in previous years. The effect of these changes is that the overall value of coal produced in 1968-69 and later years is somewhat lower and the value of certain other minerals somewhat higher than if the earlier valuation methods had been retained.

Quantity of minerals produced

The following tables show particulars of the quantities of minerals produced during 1974-75 and earlier years together with details of the aggregate quantity of each metal, metallic oxide or elements contained in the various metallic minerals produced.

QUANTITY OF MINERALS PRODUCED AND METALLIC CONTENTS OF ORES CONCENTRATES ETC 1974-75

| Mineral | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--|-------------|---|---|---------|--------|---|---|---|--------|---------|
| | | М | ETALL | IC MIN | ERALS | | | | | |
| Antimony concentrate . | tonnes | 1,555 | | | | | | | | 1,555 |
| Antimony content . | ,, | 990 | | | | | | | | 990 |
| Antimony ore | tonnes | (a) | (a) | | | | | | | (a) |
| Antimony content . | | 7 | (a) | | | | | | | (a |
| | '000 tonnes | 10 | | 10,849 | | 7,115 | | 4,231 | | 22,20 |
| Alumina (Al ₂ O ₃) con- | | | | | | | | | | - |
| tent | ** | 4 | | (a) | | (a) | | (a) | | (a |
| Beryilium ore | tonnes | | | | | 6 | | | | |
| Beryilium oxide (Be O |) | | | | | | | | | |
| content | m.t.u. | | | | | 72 | | | | 72 |
| Bismuth concentrate . | tonnes | 4 | | | | | | 4,384 | | 4,388 |
| Bismuth content . | kg | 2 | | | | | | 690,486 | | 690,488 |
| Copper content . | tonnes | | | | | | | 575 | | 575 |
| Gold content | '000 grams | | | | | | | 974 | | 974 |
| Selenium content . | tonnes | | | | | | | | | |
| Silver content | '000 grams | | | | | | | 396 | | 386 |
| Copper concentrate . | tonnes | 38.996 | | 663.045 | 32,683 | | 101,672 | 57,666 | | 894.062 |
| Copper content . | ** | 9,730 | | 166,364 | 8,931 | | 25,824 | 9,408 | | 220.257 |
| Bismuth content . | kg | ., | | | -, | | , | 484,060 | | 484,060 |
| | '000 grams | • | :: | 1,106 | 50 | | 508 | 858 | | 2,52 |
| Lead content | tonnes | 599 | · · · | 2,000 | | | | | | 7599 |
| | '000 grams | 7.173 | • | 23,636 | 1,254 | | 5,373 | 1,564 | | 39,000 |
| Zinc content | tonnes | 1,800 | • | 25,050 | .,20. | • | -,5.5 | 2,001 | | 1.80 |
| Copper ore | tonnes | 174 | | 15,162 | - :: | • | :: | • | | 15.33 |
| Copper content . | ,, | 27 | | 969 | - :: | | :: | | | 996 |
| Gold content | '000 grams | | | | • • • | | • | | | |
| Copper ore for fertilizer | tonnes | • • | • • • | | 1,000 | • • • | • | • | | 1,000 |
| Copper content . | tomics | • • | | | 2,000 | • • • | | | | 1,00 |
| | tonnes | żi | • • • | • • • | 1,425 | • • | • • | • • • | | 1.440 |
| Copper oxide | tomics | 16 | | • • • | 1.095 | • • | • • | • • | | 1.11 |
| Copper content . | tonnes | 16 | | 24 | 1,093 | • • | • • | • • | • • • | 1,11 |
| Copper precipitate . | toimes | 10 | • • • | 19 | 3 | • • | • • | • • • | •• | 32 |
| Copper content . | 1000 | 11 | 249 | 921 | _ | 8.298 | · 2 | 3.422 | • • | 12.90 |
| | '000 grams | ii | 218 | 274 | • • • | 6,257 | 2 | 3,260 | • • | 10.02 |
| Gold content | ,, | 'i | | 539 | | 1,474 | 2 | | • • • | 2.014 |
| Silver content | | 1 | • • | | 5.448 | 90.659 | (c)2.052 | • • | • • | 98.15 |
| | '000 tonnes | • • | 202 | • • | | | 1.426 | | • • • | 60.860 |
| Iron content | | 25 220 | 292 | 26 660 | 1,853 | 57,289 | | | • • • | |
| Fron $oxide(d)$. : | tonnes | 25,328 | | 26,569 | | | 10,989 | • • | • • | 62,886 |

For footnotes see end of table.

MINERAL INDUSTRY

QUANTITY OF MINERALS PRODUCED: AND METALLIC CONTENTS OF ORES CONCENTRATES ETC., 1974-75—continued

| Mineral | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|---|-----------------|---|---|---|---|---|---|---|---|--------------------|
| | | | 772. | | | | | | A.C.1. | |
| Lead concentrate t Lead content | onnes | 330,125 247,617 | | 271,871 134,354 | | 18 10 | 12,457 8,648 | 741 219 | • | 615,212 390,848 |
| Antimony content . | " | 675 | | | | | | | | 67: |
| Cadmium content . | ,, | 52 2,794 | | 5 801 | • • | • • | żi | 53 | • • | 5 3,67 |
| Copper content . '000 | grams | 2,754 | • • | 801 | | • | 31 30 | | | 3,67 |
| Silver content | ٠ " | 244,472 | | 306,343 | | ••• | 9,383 | 193 | | 560,39 |
| | onnes | 49,015 | | 10 244 | | • • • | 2,138 | • • | • • | 31,15 |
| Zinc content Lead-copper concentrate t | onnes | 11,582 | | 18,244 | | • | 1,301 19,952 | | • • • | 31,12 19,95 |
| Lead content | " | | | • :: | | | 4,207 | | • | 4,20 |
| Copper content | | • • | • • | ٠. | | | 2,652 | | • • | 2,65 |
| Gold content '000 Silver content | grams | | • • | • | | • | 913 45,211 | | • • • | 91 45,21 |
| Sulphur content . t | onnes | | | :: | • | • | 6,055 | | • | 6,05 |
| Zinc content | ,, | | | 4- 466 | | | 2,409 | | | 2,40 |
| Lead ore(e) t Lead content | onnes | 142 13 | | 47,400 2,607 | 20 6 | • • • | • • | • • • | • • • | 47,56 2,62 |
| Copper content . | ,, | | | | | | | • | | 2,02 |
| Silver content . '000 | grams | | | 2,939 | | | | | | 2,93 |
| | onnes | 10,654 | • • | • • | | | • • | | • • | 10,65 |
| Lead zinc middlings . t Lead content | onnes | 2,371 | • • | | | | | | | 2,37 |
| Antimony content . | ** | 10 | | | | | | | | -, i |
| Cadmium content . | " | 21 | | | | | | | | .2 |
| Copper content . '000 | grams | 128 28 | • • | | | • • | | | | 12 |
| Silver content | g. u.,.;; | 16,842 | | • | | | • | | | 16,84 |
| Sulphur content . t | onnes | 3,036 | | ٠. | | | | | | 3,03 |
| Zinc content | ,, | 3,359 | • • | • • | | | | • • | • • | 3,35 |
| Manganese ore— Metallurgical grade . t | onnes | | | | | | | 1,409,683 | | 1,409,68 |
| Manganese content. | " | :: | | :: | • • • | • • • | | CCE 700 | | 666,78 |
| Other grades t | onnes | | | | ٠. | | | • • | •• | |
| Manganese content. | | • • | • • | • • | • • | | | • • • | •• | |
| Mineral sands(f)— Ilmenite concentrate .(g) t | onnes | 17,607 | | | 90 | 873,393 | | | | 891,09 |
| Titanium dioxide | | | | | | | | | | |
| content | ,, | 7,923 | | • • | 49 | 495,610 | • • | • • | • • | 503,58 |
| Leucoxene concentrate t Titanium dioxide | onnes | • • | • • | • • • | • • • | 17,559 | • • | • • | • • | 17,55 |
| content | ** | | | | | 15,642 | | | | 15,64 |
| Monazite concentrate | onnes | 822 | | 23 | | 2,526 | | | | 3,37 |
| Monazite content . | ^,, | 742 | • • | 120.050 | 100 | 2,351 | 4 0 4 4 | • • | • • | 3,10 |
| Rutile concentrate . t Titanium dioxide | onnes | 183,096 | • • | 120,959 | 188 | 25,118 | 4,844 | • • | • • | 334,20 |
| content | ** | 175,775 | | 115,981 | 180 | 23,917 | 4,643 | | | 320,49 |
| | onnes | • • | | | | 16 | | • • | | 4 00 |
| Zircon concentrate . t | kg onnes | 189,854 | • • • | 107,570 | 126 | 4,880 87,641 | 7,560 | • • | | 4,88 392,75 |
| Zirconium dioxide | | 107,054 | •• | 107,570 | 120 | 07,041 | 7,500 | •• | •• | 3,2,73 |
| content | ,, | 187,957 | | 71,644 | 83 | 57,535 | 4,972 | | | 322,19 |
| | onnes | • • | • • | • • | • • | 405,380 49,106 | • • | • • | • • | 405,389 |
| Nickel content Cobalt content | ,, | | | | • • • | 79,100 | | | | 79,10 |
| Copper content . | ** | | | | | 4,449 | | | | 4,44 |
| Palladium content . | kg | | | | | 147 | • • | • • | • • | 14 |
| Platinum content . Nickel ore t | onnes | | • • • | 1,042 | • • | 62 | • • | •• | ••• | 6. 1,04 |
| Nickel content | 0111103 | • • | | (a) | • • • | | | | • | 1,04 (a |
| | onnes | | | 592 | | | 218,474 | | | 219,06 |
| Sulphur content . | " | • • | • • | 278 | | • • • | 103,848 | • • | • • | 104,12 |
| Fantalite-columbite con- centrate | kg | | | | | 178,700 | | | | 178,70 |
| Tantalite-columbite | | • • | • • • | • • • | • • • | , | | | • • • | ,,, |
| content | ,, | 2 432 | ٠, | 2 400 | | 53,734 | 12 50- | ٠, | • • | 53,73 |
| | onnes | 3,475 1,854 | 5 4 | 2,489 1,681 | • • | 982 690 | 12,597 5,863 | 4 3 | •• | 19,55 10,09 |
| Tin content Fin-copper concentrate . to | onnes | 1,0.54 | | 1,001 | | | 2,506 | | • | 2,50 |
| Tin content | ,, | | | | | • • | 73 | | • • | 7 |
| Copper content . | ,, | • • | • • • | • • | | • • | 522 | • • | • • | 52: |
| Fungsten concentrates— | onnes | | | | | | 1,672 | | | 1,67 |
| Scheelite concentrate . t Tungstic oxide content | | :: | • | • • • | • | | 120,700 | :: | • | 120,70 |
| Wolfram concentrate to | onnes | | | 214 | | | 310 | | • • | 52 |
| Tungstic oxide content | | • • | • • | 13,862 | • • | •• | 23,000 | •• | •• | 36,86 |
| Wolfram ore to Tungstic oxide content | onnes m.t.u. | • | | | • • • | • | • • • | • | | • |
| Zinc concentrate to | onnes | 549,874 | :: | 220,945 | • | :: | 108,793 | | | 879,61 |
| Zinc content to | onneș | 285,097 | • • | 114,856 | • • | • • | 57,747 | •• | •• | 457,70 |
| Cadmium content . | ,, | 946 116 | • • • | 442 | • • | • • | 135 | • • | | 1,52 11 |
| Cobalt content | ,, | 830 | • | | • • • | :: | 3 5 i | • • • | • | 1,18 |
| Gold content '000 g | grams | 54 | | | • | | 116 | • • | | 17 |
| | onnes, | 6,000 | • • | 4,655 | | • • | 5,207 | • • | • • | 15,86 |
| Manganese content . Mercury content . | kg | 5,884 | • • • | •• | • • | • | 262 86 | • • • | •• | 6,14 8 |
| Silver content '000 | grams | | • • • | 28,104 | • • • | :: | 13,320 | :: | | 41,42 |
| Sulphur content . to | onnes | 173,022 | • • • | 70,702 | 33,493 | | 35,191 | | • • | 278,91 |
| | | | | | 44 402 | | | | | 33,49 |
| | nnes | • • • | | :: | 11,779 | • | | | | 11,77 |

For footnotes see end of table

MINERAL PRODUCTION

QUANTITY OF MINERALS PRODUCED AND METALLIC CONTENTS OF ORES CONCENTRATES ETC., 1974-75—continued

| Mineral | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|----------------------------|---|----------------|---|---|--------------|---|---|---|-----------------|
| | | | | COAL | | _ | | | | |
| Black coal— . | '000 tonnes | 42,482 | | 23,845 | 1,798 | 1,879 | 138 | | | 70,142 |
| Bituminous . | . ,, | 42,482 | • • | 22,855 | 1,798 | 1,879 | 138 | • • | | 65,475 |
| Sub-bituminous Brown coal (lignite)(h) | . ,, | • | 24,441 | 990 | 1,750 | 1,075 | • • | | :: | 4,667 24,441 |
| Brown coal briquettes | : " | | 1,092 | | | | :: | | : | 1,092 |
| | | | PETI | ROLEUI | M(i) | | | | | |
| Crude oil | . '000 cu m | | 20,930 | 71 | | 2,095 | | | | 23,096 |
| Natural gas . Natural gas con- | . mil. cu m | •• | 2,284 | 265 2,684 | 1,263 | 822 5,035 | •• | •• | | 4,633 7,719 |
| densate(j) . Ethane(k) Liquefied petroleum gases(k)— | . '000 cu m | •• | 63,677 | 2,064 | | | •• | :: | :: | 63,677 |
| Propane Butane | . '000 cu m . '000 cu m | :: | 1,025 1,147 | :: | | 1 | :: | •• | :: | 1,026 1,148 |
| | | CONS | TRUCT | ION MA | ATERIA | LS(l) | | • | _ | |
| Sand | '000 tonnes | 9,115 | 7,541 | 4,789 | 2,419 | n.a. | 219 | 166 | 558 | (m)24,807 |
| Gravel | . " | 3,814 | 4,732 | 5,256 | 638 | n.a. | 1,004 | 1,156 | 715 | (ni)17,315 |
| Dimension stone . | • " | 12 | 12 | | 43 | 94 | 1 | | 1 | 163 |
| Crushed and broken stone | . " | 13,125 | 18,382 | 9,661 | 8,735 | 5,396 | 1,429 | 367 | 242 | 57,337 |
| Other (decomposed roc etc.). | k, " | 26,112 | 6,136 | 764 | 597 | ., | 56 | | 32 | 33,697 |
| | | OTHER | NON-M | IETALL | IC MIN | NERALS | | | | |
| Asbestos | . tonnes | 36,558 | | | | | | | | 36,558 |
| Barite | . ,, | 591 | | | 7,273 | 4,149 | | • • | | 12,013 |
| Carbon dioxide . Clays— | . " | | • • | • • | (a) | • • • | • • • | • • | | (a) |
| Brick and shale | '000 tonnes | 2,873 | 1,970 | 842 | 671 | 1,348 | 140 | | | 7,844 |
| Other | . ,, | 469 | 301 | 202 | 151 | 114 | 74 | | | 1,31 |
| Diatomite | . tonnes | 356 874 | 4,979 | 700 10,999 | 393,469 | • • | 6,199 | • • | • • | 6,03 |
| Felspar (including co | · ,, | 0/4 | • • | 10,333 | 373,407 | | 0,177 | •• | • • • | 411,54 |
| nish stone) . | . " | 2,021 | | | 1,788 | 469 | | | | 4,278 |
| Fluorspar | . ,, | | | | | • • | • • | | | • |
| Garnet concentrate Gypsum | . " | 44,615 | 54,139 | | 784,437 | 124,471 | • | | | 1,007,662 |
| Limestone (including | • " | • | • | | | • | | • • • | • • • | |
| shell and coral) Lithium ores | '000 tonnes tonnes | 3,706 | 2,140 | 1,876 | 1,535 | 1,272 | 580 | | | 11,109 |
| Lithia (Li2O) content | . m. t. u. | • • | :: | • | | | :: | :: | :: | |
| Magnesite, crude . Mineral pigments—re | . tonnes ed | 18,687 | • • | • • | 363 | 17,223 | •• | • • | • • • | 36,27 |
| ochre Peat(n) | • ,, | 2,324 | • • • | | • • | 670 | 390 | | | 3,384 |
| Pebbles-for grinding | . ,, | 2,324 | | | 22 | | 976 | • • • | • | 998 |
| Perlite | . ,, | | | 3,555 | 1 433 | | • • | | | 3,55 |
| Phosphate rock . Pyrophyllite | • " | 14,264 | • • | 35,485 | 1,531 | •• | • • | • • | • • | 37,010 14,26 |
| Salt | '000 tonnes | 14,204 | 114 | 92 | 698 | (o)4,153 | | | • • • | 5,05 |
| Silica | . tonnes | 438,761 | 142,550 | 671,730 | 72,571 703 | 30,511 | 32,178 | :: | | 1,388,30 |
| Sillimanite | | | · | ٠., | 703 | • • • | ٠., | | | 70. |
| Talc (including steati and chlorite) . | | 4,254 | | | 15,842 | 51,976 | | | | 72,07 |
| Vermiculite | • ,, | 4,254 | | | 13,042 | л.а. | | | • | n.a |
| • | • •• | ••• | •• | • | • | | • • • | • | • • • | 22.0 |

⁽a) Not available for publication. (b) Includes alluvial gold. (c) Iron concentrate. (d) For cement manufacture, coal washing. (e) Includes silver-lead ore, silver-lead slimes and lead slag. (f) Details relating to rutile-zircon concentrates produced in one State and finally separated in another State are included in separated form in the data of the State of origin. The ilmenite figure includes that from which titanium dioxide is not commercially extractable. (g) Includes beneficiated Ilmenite. (h) In addition 2,900,000 tonnes of brown coal valued at \$4,785,000 was used in making briquettes. (i) Source: Department of National Resources and State Mines Departments. (j) Sales—excludes condensate blended with other petroleum products. (k) Excludes refinery production. (l) Incomplete see individual States. (m) Incomplete, excludes Western Australia. (n) Comprises peat for fertiliser and peat moss. (o) Includes langebeinite.

QUANTITY OF MINERALS PRODUCED AND METALLIC CONTENTS OF ORES CONCENTRATES ETC.: AUSTRALIA

| Mineral | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-7 |
|---|-----------------------|--------------------|--------------------|----------------------|-------------------|-----------------|
| | METAL | LIC MINE | RALS | | | • |
| Antimony concentrate . | . tonnes | 887 | 611 | 1,440 | 1,346 | 1,55 |
| Antimony content | . " | 424 | 338 | 930 | 860 | 99 |
| Antimony ore | . tonnes | 2,934 | (a) | (a) | (a) | (4 |
| Antimony content | . " | 278 | (a) | (a) | (a) | (4 |
| Bauxite | . '000 tonnes | 11,043 | 13,697 | 14,702 | 18,545 | 22,20 |
| Alumina (Al ₂ O ₃) content | . " | (a) | (a) | (a) | (a) | (4 |
| Beryllium ore | . tonnes | 28 | 61 | 118 | 180 | - |
| Beryllium oxide (BeO) content | | 338 | 678 | 1,386 | 2,123 | 4 20 |
| Bismuth concentrate Bismuth content | . tonnes | 1,896 | 1,281 325,474 | 1,609 | 2,701 444,473 | 4,38 690,48 |
| Copper content | . kg | 232,936 110 | 114 | 343,349 157 | 400 | 57 |
| Gold content | . tonnes . '000 grams | 1,004 | 2,239 | 2,026 | 956 | 97 |
| Selenium content | . tonnes | 1,004 | 36 | 31 | 5 | <i>'</i> . |
| Silver content | . '000 grams | 175 | 436 | 520 | 274 | 38 |
| Copper concentrate | . tonnes | 662,030 | 636,018 | 824,772 | 938,235 | 894,06 |
| Copper content | | 161,575 | 159,239 | 186,763 | 233,371 | 220,25 |
| Bismuth content | . kg | 5,080 | 22,353 | 12,100 | 580,664 | 484,06 |
| Gold content | . '000 grams | 2,800 | 2,985 | 2,463 | 3,402 | 2,52 |
| Lead content | . tonnes | 777 | 341 | 633 | 754 | 59 |
| Palladium content | . '000 grams | 2 | | | | |
| Platinum content | . " | 1 | | | :: | : |
| Silver content | . " | 35,343 | 32,342 | 38,343 | 40,900 | 39,00 |
| Zinc content | . tonnes | 1,850 | 994 | 2,058 | 2,324 | 1,80 |
| Copper ore | . tonnes | 30,783 | 18,890 | 12,504 | 23,252 | 15,33 |
| Copper content | • | 1,816 | 1,261 | 946 | 1,407 | 99 |
| Gold content | . '000 grams | 1 102 | 84 | 1 | • • | i |
| Silver content | · tonner | 304 | 152 | 3,048 | 1,516 | 1,00 |
| Copper on tentinger | . tonnes | 26 | 7 | 24 | 6 | 1,00 |
| Copper oxide | . tonnes | | 663 | 976 | 861 | 1,44 |
| Copper content | · tomics | | 509 | 752 | 663 | 1,11 |
| Copper precipitate | . tonnes | 278 | 247 | 170 | 173 | 4 |
| Copper content | . , | 179 | 179 | 130 | 128 | 3 |
| Gold content | . '000 grams | 3 | | | | |
| Silver content | . " | | | | | |
| Gold bullion (b) | . '000 grams | 18,854 | 20,762 | 17,930 | 13,906 | 12,90 |
| Gold content | . " | 14,053 | 16,179 | 13,938 | 10,412 | 10,02 |
| Silver content | . " | 4,034 | 3,769 | 3,264 | 2,519 | 2,01 |
| Gold ore | . tonnes | 1,087 | | | 116 | 23 |
| Gold content | . '000 grams | 3 | | | 1 | 00.15 |
| from ore (c) | . '000 tonnes | 57,110 | 62,103 | 74,645 | 91,508 | 98,15 |
| Iron content | | 36,107 | 39,255 | 47,204 | 57,801 | 60,86 |
| ron oxide (d) | . tonnes | 64,080 | 66,908 | 86,569 (e)582,178 | 71,117 563,036 | 62,88 615,21 |
| Lead content | . tonnes | 631,722 392,834 | 622,592 395,186 | 356,695 | 345,290 | 390,84 |
| Antimony content | • ,, | 662 | 711 | 619 | 574 | 67 |
| Cadmium content | • ,, | 89 | 83 | 53 | 47 | 5 |
| Copper content | · ,, | 3,258 | 3,603 | 3,176 | 2,988 | 3,67 |
| Gold content | . '000 grams | 324 | 382 | 312 | 276 | 38 |
| Silver content | | 588,128 | 540,465 | 490,615 | 497,096 | 560,39 |
| Sulphur content | . tonnes | 50,356 | 56,831 | 50,826 | 44,236 | 51,15 |
| Zinc content | . " | 32,047 | 33,922 | 31,786 | 29,758 | 31,12 |
| _ead-copper concentrate . | . tonnes | 10,227 | 18,025 | 16,605 | 19,919 | 19,95 |
| Lead content | . " | 3,018 | 5,126 | 5,034 | 5,138 | 4,20 |
| Copper content | | 1,234 | 2,133 | 1,828 | 2,350 | 2,65 |
| Gold content | . '000 grams | 750 | 1,260 | 1,038 | 972 | 91 |
| Silver content | . " | 28,824 | 49,602 | 49,357 | 53,034 | 45,21 |
| Sulphur content | . tonnes | 2,845 | 5,005 | 4,427 | 5,673 | 6,05 |
| Zinc content | . " | 11,278 | 2,360 | 2,333 | 2,657 | 2,40 |

For footnotes see end of table.

QUANTITY OF MINERALS PRODUCED AND METALLIC CONTENTS OF ORES, CONCENTRATES, ETC.: AUSTRALIA—continued

| Mineral | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|-----------------------------------|---|---------|------------|-----------|------------|-----------|
| | METALLIC | MINERAL | Scontinue | d | | |
| Lead ore (f) | . tonnes | 36,333 | 31,284 | 39,760 | 32,711 | 47,562 |
| Lead content | , ,, | 2,020 | 1,774 | 2,553 | 1,847 | 2,613 |
| Copper content | • | :: | :: | 4 | | |
| Silver content | '000 grams | 2,337 | 2,044 | 3,480 | 2,153 | 2,939 |
| Zinc content | tonnes | 27 | 18 | 63 | • • | • • |
| Lead-zinc middlings | | 23,400 | 20,055 | 26,553 | 11,609 | 10,654 |
| Lead content | , ,, | 6,560 | 4,910 | 5,733 | 2,136 | 2,371 |
| Antimony content | , ,, | 22 | 26 | 34 | 12 | 10 |
| Cadmium content | , ,, | 7 | 22 | 29 | 22 | 21 |
| Copper content | • | 92 | 133 | 175 | 134 | 128 |
| Gold content | . '000 grams | 21 | 17 | 23 | 22 | 28 |
| Silver content | • | 24,660 | 16,746 | 23,880 | 15,643 | 16,842 |
| Sulphur content | tonnes | 1,749 | 4,309 | 5,515 | 3,223 | 3,036 |
| Zinc content | • | 5,109 | 5,373 | 8,038 | 4,011 | 3,359 |
| Manganese ore— | | | | | | |
| Metallurgical grade | tonnes | 785,840 | 1,163,614 | 1,295,357 | 1,619,168 | 1,409,683 |
| Manganese content . | • | 367,475 | 554,616 | 624,042 | 765,146 | 666,780 |
| Other grades | tonnes | 315 | 96 | 16 | 17 | • • |
| Manganese content | , " | 82 | 28 | 4 | • • | • • |
| Mineral sands (g)— | | | | | | |
| Ilmenite concentrate | tonnes | 886,758 | (h)705,259 | | (h)676,566 | |
| Titanium dioxide content | . " | 482,382 | 398,243 | 396,514 | 337,363 | 503,582 |
| Leucoxene concentrate . | . tonnes | 12,863 | 12,541 | 10,465 | 11,374 | 17,559 |
| Titanium dioxide content | . " | 11,304 | 11,112 | 9,336 | 10,128 | 15,642 |
| Monazite concentrate | . tonnes | 4,146 | 5,148 | 4,534 | 4,052 | 3,371 |
| Monazite content | • | 3,842 | 4,735 | 4,148 | 3,715 | 3,108 |
| Rutile concentrate | tonnes | 374,768 | 355,675 | 318,698 | 308,050 | 334,205 |
| Titanium dioxide content | • | 359,512 | 343,378 | 305,962 | 295,514 | 320,496 |
| Xenotime concentrate | tonnes | 42 | 14 | 17 | 10 | 16 |
| Yttrium oxide content . | . kg | 9,647 | 3,658 | 4,318 | 4,378 | 4,880 |
| Zircon concentrate | . tonnes | 417,974 | 390,515 | 373,024 | 347,014 | 392,751 |
| Zirconium dioxide content | | 277,877 | 258,767 | 247,545 | 290,519 | 322,191 |
| Molybdenite concentrate | tonnes | 61 | 18 | • • | 8 | • • |
| Molybdenum disulphide | kg | 51,818 | 15,676 | • • | 7,360 | • • |
| content | | | | | | |
| Nickel concentrate | . tonnes | 304,046 | 299,144 | 268,349 | 323,142 | 405,380 |
| Nickel content | | 34,917 | 35,559 | 36,104 | 42,247 | 49,106 |
| Cobalt content | , ,, | 336 | 167 | 203 | 109 | 79 |
| Copper content | , ,,, | 2,938 | 2,590 | 2,659 | 3,407 | 4,449 |
| Palladium content | . kg | 28 | • • | • • | 71 | 147 |
| Platinum content | . " | | • • | | 17 | 62 |
| Nickel ore | tonnes | | | (a) | | 1,042 |
| Nickel content | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | (a) | | (a) |
| Pyrite concentrate | tonnes | 235,355 | 261,481 | 198,096 | 239,274 | 219,066 |
| Sulphur content | ** | 110,375 | 120,586 | 93,839 | 114,340 | 104,126 |
| Gold content | kg | · | • • • | | | |
| Silver content | , ,,, | | | | | |
| Tantalite-columbite concentrate . | kg | 158,786 | 162,019 | 236,831 | 231,520 | 178,700 |
| Tantalite-columbite content | · ** | 63,230 | 76,217 | 84,744 | 91,108 | 53,734 |
| Tin content | tonnes | (a) | | • • | | |
| Tin concentrates | | 15,951 | 19,722 | 22,513 | 20,040 | 19,552 |
| Tin content | , ,, | 8,749 | 10,912 | 11,625 | 10,518 | 10,095 |
| Copper content | . " | :: | •• | • • | . 6 | • • |
| Tantalite-columbite content | . kg | (a) | : : | | (a) | :: |
| Tin-copper concentrate | tonnes | 4,367 | 5,187 | 4,586 | 3,241 | 2,506 |
| Tin content | , ,, | 174 | 157 | 129 | 81 | 73 |
| Copper content | ", | 836 | 977 | 878 | 652 | 522 |

For footnotes see end of table

QUANTITY OF MINERALS PRODUCED AND METALLIC CONTENTS OF ORES, CONCENTRATES, ETC.: AUSTRALIA—continued

| Mineral | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-7 |
|-------------------------------|----|---|----------|------------|---------------------------------------|---------|--------|
| | MI | ETALLIC M | INERALS- | -continued | | | |
| Tungsten concentrates— | | | | | | | |
| Scheelite concentrate . | | tonnes | 1,287 | 1,842 | 1,789 | 1,630 | 1.67 |
| Tungstic oxide content. | | m.t.u. | 90,374 | 135,347 | 131,973 | 117,100 | 120,70 |
| Wolfram concentrate . | | tonnes | 1,076 | 841 | 761 | 374 | 52 |
| Tungstic oxide content. | | m.t.u. | 75,681 | 61,025 | 55,528 | 25,676 | 36,86 |
| Bismuth content | | ,, | | · | | | , |
| Wolfram ore | | tonnes | | | 122 | | |
| Tungstic oxide content. | | m.t.u. | | | 100 | | |
| Zinc concentrate | | tonnes | 770,887 | 867,143 | 865,248 | 768,753 | 879.61 |
| Zinc content | • | ,, | 403,757 | 454,874 | 462,717 | 405,526 | 457,70 |
| Cadmium content | • | 11 | 1,369 | 1,520 | 1,547 | 1,361 | 1,52 |
| Cobalt content | • | ** | 110 | 116 | 107 | 92 | 11 |
| Copper content | • | ** | 900 | 1,167 | 1,226 | 1,156 | 1,18 |
| Gold content | • | '000 grams | 125 | 188 | 201 | 198 | 1,10 |
| Lead content | • | tonnes | 11,223 | 13,431 | 14,360 | 15,266 | 15.86 |
| Manganese content . | | ,, | 6,155 | 7,711 | 8,443 | 5,426 | 6,14 |
| Mercury content | | kg | 662 | 483 | 512 | 313 | 8 |
| Silver content | | '000 grams | 47,574 | 54,677 | 61,023 | 62,717 | 41,42 |
| Sulphur content | | tonnes | 239,922 | 273,583 | 324,960 | 241,868 | 278,91 |
| Zinc ore | | tonnes | 254 | | | 18,315 | 33,49 |
| Zinc content | | ,, | 76 | :: | | 3,010 | 11,77 |
| | | | COAL | | · · · · · · · · · · · · · · · · · · · | | |
| Black coal | | '000 tonnes | 49,720 | 53,549 | 59,755 | 59,344 | 70,14 |
| Semi-anthracite | • | ,, | 1 | | :: | : | |
| Bituminous | • | " | 46,460 | 50,340 | 56,444 | 55,924 | 65,47 |
| Sub-bituminous | • | ,, | 3,259 | 3,208 | 3,311 | 3,420 | 4,66 |
| Brown coal (lignite)(i) . | • | ** | 19,168 | 19,998 | 20,922 | 23,258 | 24,44 |
| Brown coal briquettes . | • | | 1,391 | 1,308 | 1,228 | 1,164 | 1,09 |
| | | PET | ROLEUM (| <i>j</i>) | | | |
| Crude oil | | '000 cu m | 14,937 | 19,038 | 20,669 | 23,096 | 23,09 |
| Natural gas | | mil. cu m | 1,961 | 2,628 | 3,713 | 4,360 | 4,63 |
| Natural gas condensate(k) . | | cu m | 1,433 | 6,125 | 9,532 | 8,181 | 7,71 |
| Ethane (e) | | '000 cu m | 5,380 | 3,087 | 27,436 | 46,176 | 63,67 |
| Liquefied petroleum gases(1)- | _ | | - | • | • | - | • |
| Propane | ٠. | '000 cu m | 347 | 577 | 798 | 1,124 | 1,02 |
| Butane | • | '000 cu m | 393 | 662 | 988 | 930 | 1,14 |
| | C | ONSTRUCT | ION MAT | ERIALS(m) | | | |
| Sand | | '000 tonnes | 17,413 | 19,501 | 21,869 | 24,684 | 24,80 |
| Gravel | • | | 12,993 | 12,871 | 14,520 | 15,982 | 17,31 |
| Dimension stone | • | ,, | 186 | 410 | 288 | 119 | 17,51 |
| Crushed and broken stone. | • | " | 50,419 | 50,475 | 51,037 | 54.803 | 57,33 |
| Other | • | ,, | 28,208 | 26,405 | 42,113 | 33,264 | 33,69 |
| | • | • | | 20, 100 | 1000 | , | ,0, |

For footnotes see end of table

QUANTITY OF MINERALS PRODUCED AND METALLIC CONTENTS OF ORES, CONCENTRATES, ETC.: AUSTRALIA—continued

| Mineral | | 1970–71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 | | | | |
|------------------------------------|---------------|---------|-----------|-----------|-----------|-----------|--|--|--|--|
| OTHER NON-METALLIC MINERALS | | | | | | | | | | |
| Asbestos | . tonnes | 751 | 3,077 | 32,358 | 37,651 | 36,558 | | | | |
| Barite | . ,, | 54,008 | 23,750 | 23,175 | 6,436 | 12,013 | | | | |
| Carbon dioxide | . ,, | (a) | (a) | (a) | (a) | (a) | | | | |
| Clays— | • | • • | | | | | | | | |
| Brick and shale | . '000 tonnes | 7,078 | 7,872 | 8,098 | 9,246 | 7,844 | | | | |
| Other(n) | . ,, | 1,410 | 1,209 | 1,321 | 1,382 | 1,311 | | | | |
| Diatomite | . tonnes | 2,399 | 1,758 | 4,792 | 8,313 | 6,035 | | | | |
| Dolomite | . ,, | 319,656 | 390,832 | 402,312 | 421,471 | 411,541 | | | | |
| Felspar (including cornish stone | | 3,382 | 2,948 | 2,916 | 3,049 | 4,278 | | | | |
| Fluorspar | • ,, | 1,001 | 380 | 1,700 | 874 | · | | | | |
| Garnet concentrate | • ,, | 422 | 525 | 111 | 109 | | | | | |
| Gypsum | . ,, | 952,901 | 1,010,573 | 961,717 | 1,192,855 | 1,007,662 | | | | |
| Limestone (including shell a | nd | • | • • | • | | • | | | | |
| coral) | . '000 tonnes | 10,447 | 10,154 | 10,960 | 11,312 | 11,209 | | | | |
| Lithium ores(o) | . tonnes | 739 | 1,930 | 695 | 1 | | | | | |
| Lithia (Li ₂ O) content | . mtu | 3,102 | 8,108 | 2,828 | 4 | | | | | |
| Magnesite, crude | . tonnes | 19,664 | 18,684 | 21,822 | 20,543 | 36,273 | | | | |
| Mineral pigments-red ochre | . ,, | 702 | 23 | 625 | 608 | | | | | |
| Peat(p) | . ,, | 3,678 | 4,489 | (a) | 3,747 | 3,384 | | | | |
| Pebbles-for grinding | . ,, | 1,677 | 1,927 | 1,509 | 1,611 | 998 | | | | |
| Perlite | . ,, | 1,773 | 295 | 1,834 | 1,739 | 3,555 | | | | |
| Phosphate rock | • " | 9,164 | 2,512 | 1,494 | 1,484 | 37.016 | | | | |
| Pyrophyllite | • " | 6,828 | 6,972 | 12,718 | 11,357 | 14.264 | | | | |
| Salt | . '000 tonnes | 3,774 | 3,503 | 3,671 | 4,683 | 5,057 | | | | |
| Silica | . tonnes | 955,048 | 1,012,445 | 1,168,819 | 1,385,013 | 1,388,301 | | | | |
| Sillimanite | . ,, | 1,139 | 654 | 654 | 719 | 703 | | | | |
| Talc (including steatite and | - " | -, | | | | | | | | |
| chlorite) | _ | 44,532 | 43,997 | 47,927 | 63,068 | 72,072 | | | | |
| Vermiculite | . " | 360 | 171 | 636 | n.a. | n.a. | | | | |
| | • ,, | 300 | 1 | 050 | 221121 | ****** | | | | |

⁽a) Not available for publication. (b) Includes alluvial gold. (c) Includes iron concentrate. (d) For cement manufacture, coal washing. (e) Excludes Western Australian production. (f) Includes silver-lead ore, silver-lead slimes and lead slag. (g) Details relating to rutile-zircon concentrates produced in one State and finally seperated in another State are included in separated form in the data of the State of origin. (h) Includes Beneficiated Ilmenite. Also includes ilmenite from which titanium dioxide is not commercially extractable. (i) Excludes brown coal used for brigette production. (j) Source: Department of National Resources and State Mines Departments. (k) Sales—excludes condensate blended and other petroleum products. (l) Excludes refinery production. (m) Incomplete see individual States. (n) Incomplete owing to difficulties of coverage. (o) Used mainly for non-metallic purposes. (p) Comprises peat for fertiliser and peat moss.

NOTE. Particulars of the production of uranium concentrate are not available for publication.

CONTENTS OF METALLIC MINERALS PRODUCED, 1974-75

| Contents of metallic minerals produced | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Aust. |
|--|-------------|---------|------|---------|--------|---------|-----------|---|---------|
| Alumina (Al ₂ O ₂) | '000 tonnes | 4 | | (a) | | (a) | | (a) | (a) |
| Antimony | tonnes | 1,682 | (a) | | | · · | | | (a) |
| Beryllium oxide (BeO) . | mtu(b) | ., | • • | • • | | 72 | | | 72 |
| Bismuth | . kg | . 2 | | . 5.2 | | | | 1,238,835 | |
| Cadmium | tonnes | 1,019 | | 447 | | | 135 | | 1,601 |
| Cobalt | ,, | 116 | | 860 | | 79 | | | 1,055 |
| Copper | ** | 13,535 | | 168,153 | 10,037 | 4,449 | 29,380 | 10,036 | 235,590 |
| Gold | '000 grams | 335 | 218 | 1,380 | 52 | 6,292 | 1,569 | 5,216 | 15,061 |
| Iron(c) | '000 tonnes | | | | 1,853 | 57,289 | 1,426 | | 60,568 |
| Lead , , , | tonnes | 256,587 | | 141,616 | 6 | 10 | (d)18,062 | 219 | 416,500 |
| Manganese(e) | . ,, | 5,884 | | | | | 262 | 666,780 | 672,926 |
| Manganese dioxide (MnO ₂)(| f) " | | | | | | | | |
| Mercury | kg | | | | | | 86 | | 86 |
| Monazite | tonnes | 742 | | 15 | | 2,351 | | | 3,108 |
| Nickel | | | | | | 49,106 | | | 49,106 |
| Palladium | kg | | | | | 147 | | | 147 |
| Platinum | kg | | | | | 62 | | | 62 |
| Selenium | kg | | | | | | | | |
| Silver | '000 grams | 269,196 | | 361,598 | 1,254 | 1,614 | 73,287 | 2,143 | 709,092 |
| Sulphur(g) | tonnes | 225,073 | | 70,980 | · | | 147,232 | _, | 443,285 |
| Tantalite-columbite | | | | | | | | | , |
| $(Ta_2O_4 + Nb_2O_4)$ | kg | | | | | 53,734 | | | 53,734 |
| Tin | tonnec | 1,854 | 4 | 1,681 | | 690 | 5,936 | 3 | 10,168 |
| Titanium dioxide (TiO ₂) . | | 183,698 | | 115,981 | 229 | 535,169 | 4,643 | | 839,720 |
| Tungstic oxide (WO.) | mtu(b) | | | 13,862 | | | 143,700 | | 157,562 |
| Yttrium oxide (Y ₂ O ₂) | kg | | | , | | 4,880 | 1 12,700 | • | 4,880 |
| Zinc | tonnes | 301.838 | | 133,100 | 11,779 | ., | 61,457 | • • • | 508,174 |
| Zirconium dioxide (ZrO ₁) . | | 187,957 | | 71,644 | 83 | 57,535 | 5,010 | • • • | 322,229 |

⁽a) Not available for publication. (b) Metric ton unit (mtu) equals 10 kilograms. (c) Excludes iron content of iron oxide not intended for metal extraction. (d) Contained in iron concentrate. (e) Content of metallurgical grade manganese ore and zinc concentrate. (f) Content of manganese ore of other than metallurgical grade. (g) Sulphur content of pyrite and other minerals from which sulphur is recovered.

CONTENTS OF METALLIC MINERALS PRODUCED: AUSTRALIA

| Contents of metallic minerals produced | ; | | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|---|-------|---------------------|---------------------|-----------------------------|---------|---------|---------|-----------|-----------|
| Alumina (Al ₂ O ₃) | | | | . '000 tonnes | (a) | (a) | (a) | (a) | (a) |
| Antimony . | | | | . tonnes | 1,386 | 1,120 | (a) | (a) | (a) |
| Beryllium oxide (Be | (O: | | | . $mtu(b)$ | 338 | 678 | 1,386 | 2,123 | 72 |
| Bismuth . | | | | . '000 grams | 238,016 | 347,778 | 355,449 | 1,025,137 | 1,238,837 |
| Cadmium . | • | | | . tonnes | 1,465 | 1,625 | 1,629 | 1,430 | 1,601 |
| Cobalt | | | | ٠ ,, | 446 | 283 | 310 | 201 | 1,055 |
| Copper | | | | ٠,, | 172,965 | 171,920 | 198,718 | 246,669 | 235,590 |
| Gold | | | | . '000 grams | 19,103 | 23,253 | 20,002 | 16,271 | 15,061 |
| Iron(c) | | | • | . '000 tonnes | 36,107 | 39,255 | 47,204 | 57,801 | 60,568 |
| Lead | | | | tonnes | 416,432 | 420,797 | 385,008 | 370,431 | 416,500 |
| Manganese(d) | | | | ٠,, | 373,630 | 562,327 | 632,485 | 770,572 | 672,926 |
| Manganese dioxide | (Mn | O_2)(ϵ | e) . | . ,, | 82 | 28 | 4 | | |
| Mercury . | | | | . kg | 662 | 483 | 512 | 313 | 86 |
| Molybdenum disul | hide | (Mo | S ₂) | . ,, | 51,818 | 15,676 | | 7,360 | |
| Monazite . | | | - | . tonnes | 3,842 | 4,735 | 4,148 | 3,715 | 3,108 |
| Nickel | | | | . " | 34,917 | 35,559 | 36,104 | 42,247 | 49,106 |
| Palladium . | | | | . grams | 1,758 | | | 71,000 | 147,000 |
| Platinum . | | | | . ,, | 29,484 | | | 17,000 | 62,000 |
| Selenium . | | | | . tonnes | | 36 | 31 | 5 | |
| Silver | | | | . '000 grams | 731,178 | 700,165 | 670,482 | 674,359 | 709,092 |
| Sulphur(f). | | | | tonnes | 405,247 | 460,313 | 479,567 | 409,340 | 443,285 |
| Tantalite-columbite | (Ta, | 0, + | - Nb ₂ (| O ₅) '000 grams | 63,799 | 76,217 | 84,744 | (a) | 53,734 |
| Tin | . • | | | . tonnes | 8,923 | 11,070 | 11,754 | 10,599 | 10,168 |
| Titanium dioxide (| ΓiO。) | | | • ,, | 853,198 | 752,733 | 711,812 | 679,000 | 839,720 |
| Tungstic oxide (WC |),) ້ | | | mtu(b) | 166,061 | 196,372 | 187,601 | 142,776 | 157,562 |
| Yttrium oxide (Y20 | | | | . '000 grams | 9,647 | 3,658 | 4,318 | 4,278 | 4,880 |
| Zinc | | | | . tonnes | 444,144 | 497,541 | 506,996 | 441,286 | 508,174 |
| Zirconium dioxide | (ZrO | 2) | • | • " | 277,877 | 258,767 | 247,545 | 290,519 | 322,229 |

⁽a) Not available for publication. (b) Metric ton unit (mtu) equals 10 kilograms. (c) Excludes iron content of iron oxide not intended for metal extraction. Includes iron contained in iron concentrate. (d) Content of metallurgical grade manganese ore and zinc concentrate. (e) Content of manganese ore of other than metallurgical grade. (f) Sulphur content of pyrite and other minerals from which sulphur is recovered.

Note. Particulars of production of uranium oxide (U₂O₂) are not available for publication.

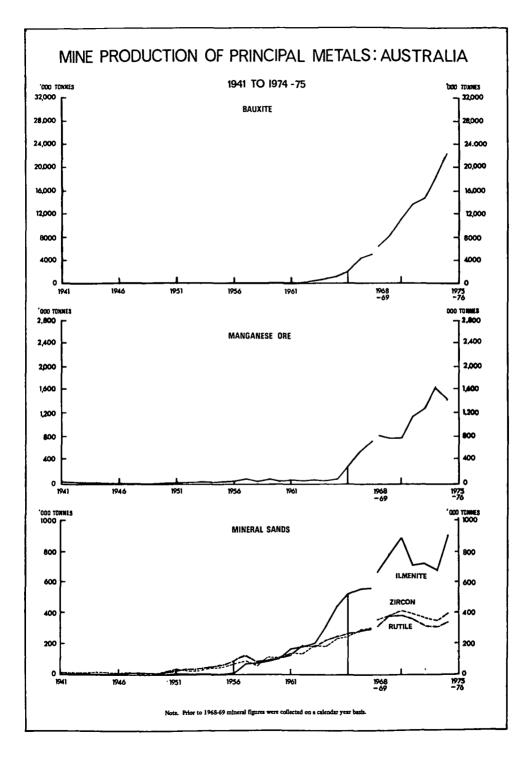


PLATE 58

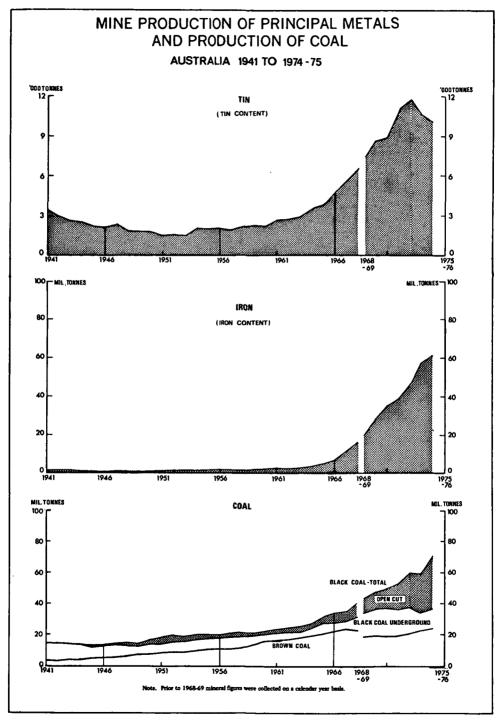


PLATE 59

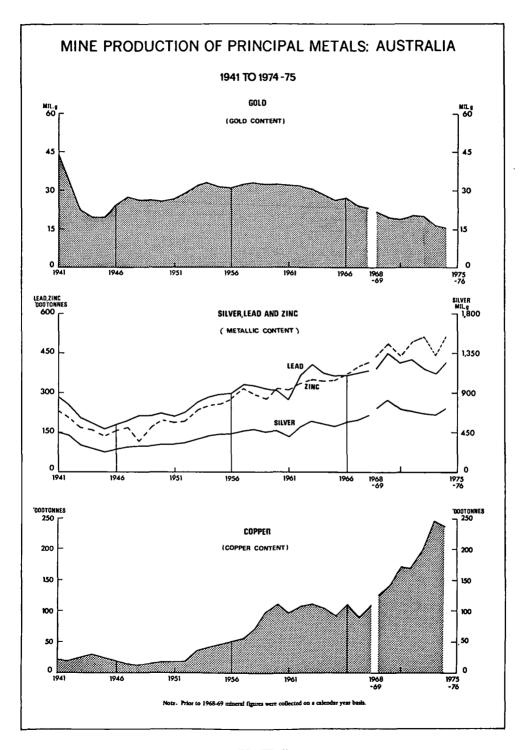


PLATE 60

Value of minerals produced

The following table shows the value of minerals produced in the past five years.

VALUE OF MINERALS PRODUCED: AUSTRALIA (\$'000)

| Mineral | | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
|---------------------------------|-------|------|--------------|--------------|-----------------|-------------------|-----------|
| | | META | ALLIC MIN | NERALS | | | |
| Antimony— | | | | _ | | | |
| Concentrate | | | 422 | 176 | 546 | 932 | 1,904 |
| Ore | | | 83 | (a) | (a) | (a) | (a |
| Bauxite | | | (a) | (a) | (a) | (a) | (a |
| Beryllium ore | | | `ģ | 16 | 23 | 23 | ` i |
| Bismuth concentrate | | | 2,672 | 5,066 | 6,813 | 7,609 | 14,085 |
| Copper— | | | | | | | |
| Concentrate | | | 129,752 | 114,956 | 154,748 | 267.873 | 168,047 |
| Ore(b) | | | (c) | 947 | 701 | (a) | 766 |
| Ore for fertiliser | | | 18 | 6 | 9 | 5 | 3 |
| Oxide | | | | 475 | 757 | 982 | 1,406 |
| Precipitate | • | | 148 | 134 | 101 | 168 | 31 |
| Gold— | | | | | | | |
| Bullion(c) | • | • | 17,779 | 21,435 | 25,730 | 26,839 | 43,139 |
| Ore | • | • | 3 | | | 3 | (12.16 |
| Iron ore | • | • | 343,682 | 372,483 | 395,189 | 427,518 | 613,169 |
| Iron oxide | • | • | 754 | 773 | 1,150 | (u) | 85: |
| Lead concentrate | • | • | 75,825 | (d)69,340 | (d)72,060 | 110,875 | 124,519 |
| Lead-copper concentrate . | • | . • | 3,031 | 4,444 | 6,089 | 8,799 | 7,609 |
| Lead ore(e) | . • | • | 398 | 321 | 494 | 403 | 579 |
| Lead-zinc middlings | • | • | 2,269 | 1,846 | 2,560 | 2,002 | 2,422 |
| Manganese ore | • | • | 10,852 | (a) | (a) | (a) | (a |
| Mineral sands— | | | 7 424 | (() 0 071 | (6)0155 | (f)7 052 | (f)14,270 |
| Ilmenite concentrate | • | • | 7,434 975 | (f)8,071 | (f)8,155 722 | (f)7,953 1,060 | 2,079 |
| Leucoxene concentrate | • | • | 530 | 1,089 608 | 551 | 542 | 51: |
| Rutile concentrate | • | • | 37,214 | 41,023 | 36,510 | 36,750 | 53.669 |
| Xenotime concentrate | • | • | 57,214 | 18 | 22 | 70,730 | 12 |
| Zircon concentrate | • | • | 13,207 | 12,503 | 11,821 | 16,726 | 58,128 |
| Molybdenite concentrate | • | • | 85 | 12,303 | 11,021 | 6 | 50,12 |
| Nickel concentrate | • | • | (a) | (a) | (a) | (a) | (a |
| Nickel ore | • | • | (4) | (4) | (a) | () | (a |
| Pyrite concentrate | • | • | 2,190 | 2,230 | 139 | 238 | 44 |
| Tantalite-columbite concentrate | | - | 936 | 835 | 670 | 777 | 942 |
| Tin concentrate | | - | 25,533 | 30,406 | 32,282 | 43,448 | 49,138 |
| Tin-copper concentrate | | | 905 | 659 | 516 | 860 | 390 |
| Tungsten ores and concentrates | | | 9,044 | 7,979 | 5,550 | 5,292 | 11,385 |
| Zinc concentrate | | | 43,548 | 63,393 | 61,820 | 97,122 | 138,38 |
| Zinc ore | | | 2 | | | 1,551 | 2,780 |
| Total metallic minerals . | | • | 845,423 | 921,642 | 995,366 | 1,281,782 | 1,573,08 |
| | | | COAL | | | | |
| Black coal | | | 283,245 | 330,504 | 390,980 | 449,855 | 874,879 |
| Brown coal (lignite)(g) | | | 19,052 | 21,768 | 24,716 | 27,251 | 40,550 |
| Brown coal briquettes | | | 10,614 | 11,280 | 9,173 | 11,011 | 11,39 |
| Total coal | | | 312,911 | 363,553 | 424,869 | 488,116 | 926,82 |
| | | | PETROLEU | M(h) | | | |
| Petroleum | ·-··· | | 216,722 | 271,981 | 311,903 | 378,750 | 446,29 |

For footnotes see next page.

MINERAL PRODUCTION

VALUE OF MINERALS PRODUCED: AUSTRALIA—continued (\$'000)

| Mineral | | | | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|--|-----------|----------|---------------|------------------|-----------------|-----------------|-----------|-----------|
| - | | CON | STR | UCTION M | ATERIALS | (i) | | |
| Construction materials | | | | 144,708 | 159,031 | 170,484 | 196,611 | 238,044 |
| | | ОТНЕ | R NO | ON-METAL | LIC MINER | RALS | | |
| Asbestos . | | | | 170 | (j)453 | 3,256 | 4,140 | 7,960 |
| Barite | | | | 476 | 202 | 208 | 98 | 303 |
| Carbon dioxide . | | | | 42 | 38 | 47 | 52 | 45 |
| Clay— | | | | | | | | |
| Brick clay and shale | | | | 7,105 | 8,408 | 9,355 | 11,153 | 10,241 |
| Other clays . | | | | 2,648 | 2,385 | 2,682 | 3,880 | 4,373 |
| Diatomite | | | | 20 | 17 | 43 | 70 | 45 |
| Dolomite | - | | | 747 | 844 | 888 | 1,087 | 991 |
| Felspar (including corn | ish stat | ne) | • | 45 | 38 | 35 | 48 | 87 |
| Fluorspar | | | • | 32 | 22 | 79 | 49 | |
| Garnet concentrate | • | • | • | 6 | 8 | 2 | 2 | • • |
| Gems | • | | • | 17.830 | 27,262 | 40.911 | 47,262 | 37.032 |
| Gypsum | • | • | • | 2,577 | 2,819 | 2,826 | 3,665 | 3,176 |
| Limestone (including sh | ell and | l corol) | • | 15,110 | 15,135 | 16,932 | 20,794 | 24,221 |
| Lithium ores | icii aiiu | Corary | • | 13,110 | 30 | 10,932 | • | • |
| | • | • • | • | 233 | 236 | 318 | 291 | 722 |
| Magnesite, crude . | | | • | | | | | |
| Mineral pigments—red | ocnre | | • | 7 | | 10 | 6 | |
| Peat(k) | • | | • | 62 | 87 | (a) | 143 | 146 |
| Pebbles—for grinding | • | | • | 30 | 38 | 36 | 43 | 27 |
| Perlite | • | | • | 18 | 3 | 18 | 11 | 32 |
| Phosphate rock . | • | | • | 27 | 10 | 6 | 6 | 1,190 |
| Pyrophyllite | • | | • | 68 | 58 | 112 | 103 | 156 |
| Salt | • | | • | 11,563 | 11,804 | 12,655 | 16,410 | 21,951 |
| Silica | | | | 3,276 | 3,555 | 4,484 | 5,353 | 6,301 |
| Sillimanite | | | | 27 | 17 | 17 | 19 | 22 |
| Talc (including steatite | and ch | lorite) | | 732 | 782 | (a) | 1,363 | 1,348 |
| Vermiculite | | | | 2 | 1 | 35 | (a) | (a) |
| Total other non-n | netallic | minerals | | 62,866 | 74,253 | 95,943 | 116,062 | 120,381 |
| | | | , | TOTAL | | | | |
| Total, all minerals | | | tion | | | | | |
| materials . | | · | | 1,582,632 | 1,790,460 | 1,998,565 | 2,462,738 | 3,304,637 |
| Of which— | | | | | | | | |
| New South V | Vales | | | 392,265 | 427,306 | 454,302 | 503,913 | 784,097 |
| Victoria . | | | | 249,422 | 312,375 | 349,973 | 432,379 | 522,696 |
| Queensland | | | | 293,751 | 318,835 | 399,192 | 583,483 | 802,952 |
| South Austra | lia | | | 92,524 | 94,169 | 116,807 | 116,639 | 125,966 |
| Western Aust | | | | 446,507 | 510,409 | 536,414 | 604,288 | 860,443 |
| | | | • | | 81,972 | 84,863 | 117,589 | 117,756 |
| Tasmania | | | | 74.109 | | | | |
| Tasmania Northern Ter | ritory | • | • | 74,169 32,274 | | | | 87.156 |
| Tasmania Northern Ter Australian C | | | | 32,274 1,719 | 43,554 1,839 | 54,923 2,093 | 102,114 | |

⁽a) Not available for publication. (b) Includes value of copper slag. (c) Includes alluvial gold. (d) Excludes value of Western Australian production. (e) Includes value of silver-lead ore, silver-lead slimes and lead slag. (f) Includes based on prices prescribed in legislation quoted market prices and information from government departments. Includes values for crude oil, natural gas, natural gas condensate, ethane, propane and butane. (i) Incomplete owing to difficulties of coverage in some States. (j) Excludes Western Australian production. (k) Comprises peat for fertiliser and peat moss.

Foreign ownership and control of the mining industry in Australia

Summary information on foreign ownership and control of mining industry in Australia is shown in Chapter 11. More detailed Statistics are available in Foreign Ownership and Control of the Mining Industry (Advance Release) (10.73) and Foreign Ownership and Control of the Mining Industry (10.42).

Mineral exploration (other than for petroleum)

Definition

Exploration consists of the search for and/or appraisal of new ore occurrences and known deposits of minerals (including extensions to deposits being worked) by geological, geophysical, geochemical and other methods (including drilling). Exploration for water is excluded. The construction of shafts and adits is included if primarily for exploration purposes. Excluded are mine development activities carried out primarily for the purpose of commencing or extending mining or quarrying operations (including the construction of drives, shafts, winzes, etc., in underground mines, and the preparation of quarrying sites, including overburden removal, for open-cut extraction).

Sources of statistics

The statistics of exploration for minerals other than petroleum are derived from the annual mineral exploration census, which is carried out by the Australian Bureau of Statistics in each State and the Northern Territory, except in New South Wales where the census is conducted jointly with the State Mines Department.

Classification

The data obtained in the mineral exploration census are divided into the following categories:

- (a) Private exploration on production leases—relates to exploration carried out on the production lease by privately operated mines currently producing or under development for the production of minerals.
- (b) Other private exploration—relates to exploration carried out by private enterprises on areas covered by exploration licences, authorities to enter, authorities to prospect and similar licences and authorities issued by State governments' for exploration of minerals. Also included is exploration by private enterprises which is not directly connected with areas under lease, licence, etc.
 - (c) Exploration by government—relates to exploration of minerals carried out by:
 - (i) State Mines Departments and business undertakings operated by State and local government authorities.
 - (ii) Commonwealth Government (Bureau of Mineral Resources, Geology and Geophysics, The Joint Coal Board, The Atomic Energy Commission, The Petroleum and Mineral Authority and The Mines Branch of the Department of the Northern Territory).

£ 13

Expenditure, metres drilled, etc., States and Northern Territory

The following tables show expenditure and metres drilled, etc., on mineral exploration other other than for petroleum during the last five years.

MINERAL EXPLORATION

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

| | | EXPEND (\$'0 | | | | |
|-------------------------|------|-------------------|------------------|------------------|------------------|------------------|
| | | 1970–71 | 1971-72 | 1972–73 | 1973–74 | 1974-7. |
| | P | RIVATE EX | PLORATION | | | |
| New South Wales | | 21,238 | 15,093 | 12,673 | 11,544 | 11,86 |
| Victoria | | 1,853 | 1,258 | 1,939 | 2,524 | 2,04 |
| Queensland | | 32,662 | 22,119 | 15,465 | 15,395 | 21,65 |
| South Australia | | 6,220 | 4,057 | 5,263 | 4,485 | 4,91 |
| Western Australia | | 86,082 | 62,823 | 51,121 | 54,056 | 57,14 |
| Tasmania | | 4,397 | 3,478 | 3,392 | 4,194 | 5,56 |
| Northern Territory . | | 8,610 | 8,233 | 9,885 | 9,429 | 6,60 |
| Total | | 161,063 | 117,061 | 99,738 | 101,628 | 109,82 |
| | GOVE | RNMENT E | XPLORATIO |)N(a) | | |
| Commonwealth Government | | 3,928 | 4,603 | 5,061 | 5,292 | 5,474 |
| | | 3,386 | 3,732 | 4,341 | 5,619 | 7,112 |
| Total | | 7,314 | 8,334 | 9,402 | 10,911 | 12,580 |
| | | TOTAL EXP | ENDITURE | | | |
| On drilling Other | | 45,106 123,272 | 32,905 92,490 | 29,073 80,067 | 28,824 83,714 | 36,172 86,242 |
| Australia | | 168,377 | 125,396 | 109,140 | 112,539 | 122,413 |
| | | (°000 m | etres) | | | |
| | | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974-75 |
| | P | RIVATE EXI | PLORATION | | <u></u> | |
| New South Wales | | 473 | 360 | 291 | 333 | 289 |
| Victoria | | 29 | 17 | 21 | 39 | 40 |
| Queensland | | 821 | 567 | 602 | 360 | 441 |
| South Australia | | 195 | 123 | 343 | 207 | 199 |
| Western Australia | | 1,955 | 1,996 | 1,393 | 1,255 | 1,266 |
| Tasmania | | 73 | 60 | 60 | 96 | 80 |
| Northern Territory . | | 128 | 113 | 171 | 112 | 86 |
| Total | | 3,674 | 3,235 | 2,880 | 2,403 | 2,401 |
| | GOVE | RNMENT E | XPLORATIO | N(a) | | |
| Commonwealth | | 3 | 2 | | 19 | 11 |
| State Mines Departments | | 84 | 71 | 70 | 89 | 97 |
| Total | · · | 86 | | 7 0 | 108 | |
| | тс | TAL METR | ES DRILLEI |) | | |
| Drilled—core | | 949 | 794 | 769 | 657 | 733 |
| non-core | | 2,811 | 2,514 | 2,181 | 1,854 | 1,775 |
| Australia | | 3,760 | 3,308 | 2,949 | 2,511 | 2,509 |
| | | | | | | |

⁽a) Statistics for 1973-74 and 1974-75 are not comparable in some respects with those for previous years; for details see the bulletin Mineral Exploration 1974-75 (10.41).

Petroleum exploration

Source of statistics

These statistics were collected and compiled by the Bureau of Mineral Resources, Geology and Geophysics, Canberra. Statistical and other information relating to petroleum exploration is published by the Bureau of Mineral Resources in *The Petroleum Newsletter* (issued quarterly) and *The Australian Mineral Industry—Annual Review*.

Scope

Petroleum exploration consists of the search for, and/or appraisal of, deposits of crude oil and/or natural gas and natural gas liquids by geological, geophysical, geochemical, and other exploration methods, including drilling. Included in the expenditure are the costs of drilling exploratory oil and/or gas wells and the testing of such wells. Also included are the cost of access roads, site construction, permits, licences and similar fees, relevant office buildings and furniture, transportation equipment, storage facilities, plant and equipment, and review work, where these are undertaken primarily for purposes of exploration for deposits of petroleum. Details of developmental oil and/or gas wells are excluded.

Operations

The following tables show particulars of expenditure, and wells and metres drilled in petroleum exploration in recent years.

EXPENDITURE ON PETROLEUM EXPLORATION BY PRIVATE ENTERPRISE AND BY GOVERNMENTS: AUSTRALIA (\$'000)

| | | | | 1970 | 1971 | 1972 | 1973 | 1974 |
|---|-----|-------------|----------------------|------------------------|--------------|------------------------|--------------|-------------------------|
| | | PRIV | ATE S | OURCES | (a) | | | |
| Utilised in— | | | | | | | | |
| New South Wales | | | | 2,597 | 287 | 200 | 494 | 170 |
| Victoria | | | | 11,538 | 1,453 | 15,076 | 15,206 | 10,613 |
| Queensland | • | | • | 5,474 | 3,011 | 3,085 | 2,546 | 2,860 |
| South Australia | • | | • | 6,431 | 7,084 | 9,804 | 1,871 | 2,205 |
| Western Australia | • | • | • | 29,557 | 41,872 | 57,903 | 52,364 | 45,281 |
| Tasmania | • | • | • | 4,708 | 1,939 | 991 | 60 | 110 |
| Northern Territory | • | • | • | 13,753 | 17,250 | 10,350 | 13,095 | 23,047 |
| Total | • | • | • | 74,059 | 72,896 | 97,408 | 85,636 | 84,286 |
| | | GOV | ERNM | ENT SO | URCES | | | |
| Payments under Petroleum Search 1959— | Sub | sidy | Act | | | | | |
| Utilised in- | | | | | | | | |
| New South Wales . | | | | 406 | 225 | 64 | 22 | 130 |
| Victoria | | | | 732 | 231 | 570 | 546 | 624 |
| Queensland | | | | 1,623 | 500 | 367 | 825 | 823 |
| South Australia | | | | 923 | 537 | 611 | 414 | 187 |
| Western Australia . | | | | 4,604 | 3,590 | 4,209 | 5,230 | 2,642 |
| Tasmania | | | | 39 5 | 208 | 16 | 59 | 569 |
| Northern Territory . | | • | • | 1,061 | 695 | 380 | 508 | 273 |
| Total subsidy payments . | • | • | • | 9,744 | 5,986 | 6,218 | 7,604 | 5,248 |
| Utilised for— | | | | | | | | , |
| | | | | 2,924 | 2,470 | 3,230 | 3,267 | 1,779 |
| Geophysical | | | | 6,820 | 3,517 | 2,987 | 4,337 | 3,469 |
| Drilling | ٠ | - | | | | | | |
| Drilling Other Government sources— | • | • | | | | | | |
| Drilling Other Government sources— Commonwealth Government(a) | • | | | 3,216 | 3,913 | 3,984 | 4,178 | |
| Drilling Other Government sources— | • | | • | 3,216 456 | 3,913 458 | 3,984 564 | 4,178 702 | |
| Drilling Other Government sources— Commonwealth Government(a) State Government Total other Government source | es | : | • | 456 3,672 | 458 4,371 | 564 4,548 | 702 4,880 | 3,457 1,011 4,468 |
| Drilling Other Government sources— Commonwealth Government(a) State Government | es | : : : | · · | 456 | 458 | 564 | 702 | 1,011 |
| Drilling Other Government sources— Commonwealth Government(a) State Government Total other Government source Total Government sources | | DS, 1 | : : : PRIVA | 456 3,672 13,416 | 458 4,371 | 564 4,548 10,766 | 702 4,880 | 1,011 4,468 |

SUMMARY OF EXPLORATION WELLS AND METRES DRILLED IN PETROLEUM EXPLORATION, 1974

| • | | | | | | | | |
|-----|---------------------|-------------------------------------|--|-------|--------|-------|--------|--|
| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | Total |
| | | | - | | | | | |
| | | | | | | | | |
| No | | | | | | | 1 | |
| | | | · i | | · i | | i | 2 |
| No. | - | ż | | | i | | • | 3 |
| No. | 1 | 3 | 8 | i | 19 | 4 | 7 | 43 |
| | _ | _ | _ | _ | | _ | | |
| No. | 2 | 5 | 9 | 1 | 21 | 4 | 9 | 51 |
| | | | | | | | | |
| m | 890 | 2.861 | 2.157 | 2.436 | 2.365 | 2.379 | 3.161 | 2,321 |
| | | _, | -, | _, | -, | -,0 | -, | -, |
| | | | | | | | | |
| No. | | | | | | | 2 | 2 |
| | | | | | | | _ | |
| No. | • • | 1 | 1 | • • | 8 | 1 | 3 | 16 |
| m | 1 130 | 14 303 | 17 457 | 2 436 | 46 203 | 0.516 | 27 211 | 118,256 |
| | | | - | • | • | • | | 3,028 |
| | •• | | •• | • • • | ••• | ••• | 5,020 | 5,020 |
| m | 1,130 | 14,303 | 17,457 | 2,436 | 46,203 | 9,516 | 30,239 | 121,284 |
| | No. No. m No. No. m | No No. 1 No No. 1 No. 2 m 890 No no | No No. i No 2 No. 2 5 m 890 2,861 No No 1 m 1,130 14,303 m | No | No | No | No | No. . |

SUMMARY OF EXPLORATION WELLS AND METRES DRILLED IN PETROLEUM EXPLORATION: AUSTRALIA

| | | 1970 | 1971 | 1972 | 1973 | 1974 |
|--|-----|---------|---------|---------|---------|---------|
| Wells | | | | | | |
| Drilled (i.e. those which reached final depth)- | | | | | | |
| As oil producers | No. | 2 | 1 | 3 | 1 | 1 |
| As gas producers | No. | 15 | 12 | 17 | 8 | 4 |
| As oil and gas producers(a) | No. | | | | 2 | 3 |
| Plugged and abandoned | No. | 108 | 62 | 82 | 49 | 43 |
| Total | No. | 125 | 75 | 102 | 60 | 51 |
| Average final depth of wells drilled Drilling still in progress at 31 December | m | 1,634 | 2,274 | 2,213 | 2,441 | 2,321 |
| | No. | 8 | 8 | 9 | 7 | 2 |
| Wells drilled or drilling over 3,000 metres . | No. | 19 | 23 | 20 | 22 | 16 |
| Metres drilled— | | | | | | |
| Completed wells | m | 192,552 | 153,344 | 204,836 | 127,978 | 118,256 |
| Uncompleted holes | m | 16,066 | 15,199 | 19,595 | 12,860 | 3,028 |
| Total | m | 208,618 | 168,543 | 224,431 | 140,838 | 121,284 |

(a) This breakdown not available prior to 1973.

Mineral processing and treatment

The extraction of minerals from ore deposits, as in mining and quarrying, is only part of the wider field of mineral technology. It is only in rare instances that minerals can be used directly in the form in which they are produced by mines, and, much more commonly, minerals must undergo considerable processing and treatment before their full utility and value can be realised. Examples of this processing and treatment are the smelting and refining of metals, the production of coke from coal, the refining of oil, and the treatment of non-metallic minerals as in the production of superphosphate and other chemicals and building materials like bricks and cement. The sectors of the economy which carry out this work are classified for statistical purposes to the manufacturing industry, and particulars relating to those activities which principally involve mineral processing and treatment—i.e. the treatment of non-metalliferous mine and quarry products, the manufacture of mineral oils and chemical fertilisers, the smelting, converting, refining and rolling of iron and steel, the extracting and refining of other metals, and the manufacture of alloys are given in Chapter 21, Manufacturing Industry.

Principal products

The following table shows particulars of the production of certain important manufactured products of mineral origin during recent years,

PRODUCTION OF PRINCIPAL MANUFACTURED PRODUCTS OF MINERAL ORIGIN: AUSTRALIA

| Commodity | | 1970-71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|-------------------------------|-------------|--------------------|----------------|--------------------|----------------|----------------|
| | | METALS(| a) | | | |
| | | | • | | | |
| Non-ferrous— | | 2 404 651 | 2 025 500 | 2 526 000 | 4.516.376 | |
| Alumina | tonnes | 2,404,651 | 2,825,588 | 3,526,898 | 4,516,376 | 5,073,280 |
| Refined aluminium | " | 218,244 | 212,461 | 207,531 | 208,756 | 222,870 |
| Blister copper(b) | ,, | 130,199 | 144,791 | 149,512 | 184,952 | 189,25 |
| Refined copper | ,, | 115,321 | 130,827 | 136,792 | 149,300 | 178,45 |
| Lead bullion (for export)(b). | ,, | 179,424 154,937 | 141,582 | 138,798 173,561 | 149,257 | 149,876 |
| Refined lead | ,, | | 190,638 | | 201,022 | 170,508 |
| | ,, | 253,761 | 274,245 | 302,536 | 281,586 | 243,209 |
| Refined tin | ,, | 5,942 | 6,391 | 7,301 | 6,509 | 5,973 |
| Ferrous— | 2000 tannos | 6,240 | 6.006 | 7 021 | 7,444 | 7.501 |
| Pig iron(c) Steel ingots(c) | '000 tonnes | 6,800 | 6,006 6,480 | 7,021 7,209 | 7,444 7,504 | 7,591 8,017 |
| Precious— | ,, | 0,000 | 0,400 | 1,209 | 1,304 | 0,01 |
| Refined gold(d) | '000 grams | 14,426 | 16,394 | 14,689 | 11,106 | 10,744 |
| Refined silver | • | 253,852 | 273,142 | 247,933 | 259,221 | 272,855 |
| | ,, | | | | | |
| | | FUELS | | | | |
| Coal products— | | | | | | |
| Metallurgical coke | '000 tonnes | 4,542 | 4,136 | 4,926 | 4,921 | 5,497 |
| Brown coal briquettes . | ,, | 1,398 | 1,308 | 1,221 | 1,164 | 1,092 |
| Petroleum products— | • | | | | | , |
| Motor spirit | mil. litres | 10,138 | 10,609 | 11,157 | 12,200 | 12,508 |
| Furnace fuel | '000 tonnes | 5,791 | 5,015 | 5,042 | 5,265 | 4,656 |
| Automotive distillate | ,, | 3,177 | 3,426 | 3,707 | 4,265 | 4,682 |
| Industrial diesel fuel | ,, | 1,120 | 1,112 | 1,055 | 1,276 | 1,110 |
| | BUIL | DING MA | ΓERIALS | | | |
| Clay bricks | millions | 1,669 | 1,744 | 1,881 | 2.050 | 1,713 |
| Portland cement | '000 tonnes | 4,685 | 4,884 | 5,097 | 5,412 | 5,086 |
| Plaster of paris | | 309 | 315 | 342 | 361 | 336 |
| Plaster sheets | '000 sq m | 34,365 | 34,315 | 39,151 | 44,105 | 42,008 |
| | | | | | | |
| | | CHEMICA | LS | | | |
| Sulphuric acid | '000 tonnes | 1,612 | 1,756 | 2,266 | 2,434 | 1,770 |
| Caustic soda | tonnes | 119,678 | 127,857 | 123,219 | 140,578 | 139,206 |
| Superphosphate(e) | '000 tonnes | 3,115 | 3,508 | 4,962 | 5,288 | 3,309 |

⁽a) Excludes secondary metal with the exception of pig iron and steel ingots. (b) Metallic content. (c) Year ended 31 May. (d) Newly-won gold of Australian origin. (e) Includes double and triple superphosphate and ammonium phosphate expressed in terms of single superphosphate i.e. 22% P₂O₅ equivalent.

Overseas trade

Exports and imports

Data of imports and exports of minerals and mineral products have been extracted from the official trade statistics compiled in the Australian Bureau of Statistics. Particulars of the quantities and values (\$f.o.b. port of shipment) of the principal minerals and mineral products exported from and imported into Australia during recent years are shown in the following table.

OVERSEAS TRADE

EXPORTS AND IMPORTS OF PRINCIPAL MINERALS AND MINERAL PRODUCTS ${\bf AUSTRALIA}$

| | | Quantity | | | Value (\$'(| 000 f.o.h.) | |
|------------------------------|---|--------------------|--------------------|--------------------|----------------|-----------------|---------------|
| Commodity(a) | | 1972-73 | 1973-74 | 1974-75 | 1972-73 | 1973-74 | 1974-7. |
| | E | XPORTS | (b) | | | | |
| Non-ferrous— | | | | | | | |
| Copper— Concentrate | tonnes | 164,451 | 175,510 | 146,744 | 32,267 | 57,755 | 44,14 |
| Blister | ,, | 7,728 | 10,426 | 15,196 | 9,896 | 21,856 | 20,85 |
| Refined | ** | 49,967 | 50,678 | 93,862 | 44,729 | 76,850 | 93,80 |
| Matte, slags, etc Lead— | ** | 9,829 | 8,392 | 23,496 | 2,640 | 2,440 | 3,85 |
| Concentrate | ,, | 74,145 | 77,678 | 42,192 | 12,441 | 19,445 | 13,22 |
| Bullion | ,, | 142,270 | 147,820 | 152,754 | 44,940 | 73,059 | 82,26 |
| Refined | ** | 149,691 | 134,231 | 124,766 | 36,400 | 43,671 | 47,43 |
| Slags and residues | ** | 6,628 | 44,825 | 25,406 | 1,064 | 2,644 | 2,26 |
| Zinc— Concentrate | | 289,836 | 426,272 | 398,622 | 21,508 | 45,560 | 58,31 |
| Refined | ** | 203,777 | 164,404 | 140,429 | 61,979 | 69,331 | 78,52 |
| Slags and residues | ** | 5,011 | 6,758 | 5,454 | 617 | 1,647 | 1,79 |
| Tin— | | | 7.000 | 12 500 | 44 530 | 12.520 | 00.00 |
| Concentrate | ** | 11,290 3,939 | 7,982 2,409 | 13,700 2,394 | 11,739 | 13,530 7,641 | 25,62 |
| Refined | ** | 3,333 | 2,409 | 2,394 | 12,026 | 7,041 | 11,04 |
| Alumina | '000 tonnes | 2,966 | 3,951 | 4,472 | 155,453 | 196,078 | 297,87 |
| Refined | tonnes | 81,344 | 45,834 | 64,064 | 30,767 | 20,727 | 37,53 |
| Ferrous and alloy— | | | | | | | |
| Iron ore— Pellets | '000 tonnes | 7.987 | 9,519 | 7.747 | 76,494 | 89.905 | 101,74 |
| Fines | | 25,178 | 31,874 | 36,196 | 126,313 | 154,078 | 237,47 |
| Lump | ** | 33,171 | 36,871 | 41,404 | 236,285 | 248,098 | 365,78 |
| Tungsten— | | | | | | | |
| Scheelite concentrate | tonnes | 1,553 | 1,658 382 | 1,924 | 3,019 1,734 | 3,419 792 | 8,68 |
| Wolfram concentrate Pig iron | ** | 818 687,124 | 957,805 | 469 558,507 | 27,286 | 60,081 | 2,10 62,01 |
| Steel ingots, blooms | ** | 743,169 | 747,572 | 1,132,954 | 48,377 | 64,059 | 149,32 |
| Mineral sands— | ** | - | - | | - | • | |
| Ilmenite concentrate | ,, | 521,823 | 710,570 | 628,459 | 5,731 | 8,136 | 7,65 |
| Rutile concentrate | ** | 338,760 419,962 | 359,043 401,545 | 338,087 | 39,750 | 45,324 | 56,78 |
| Zircon concentrate Precious— | ** | 419,902 | 401,343 | 388,926 | 15,131 | 18,616 | 56,97 |
| Gold, refined | '000 grams | 10,136 | 4,344 | 2,940 | 18,239 | 13,660 | 10,97 |
| Silver, refined | - | 181,014 | 112,894 | 143,301 | 8,731 | 8,212 | 14,11 |
| Coal, black | '000 tonnes | 25,751 | 27,755 | 32,652 | 290,703 | 347,992 | 660,51 |
| Crude oil(c) | '000 cu m | 330 | 288 | 234 | 4,910 | 8,520 | 14,38 |
| | | IMPORT | S | | | | |
| Tin seferal | | 65 | 67 | 26 | 203 | 337 | 14 |
| Tin, refined | tonnes | 1,060 | 2,687 | 1,050 | 2,677 | 5,474 | 3,41 |
| Ferro-allovs | . " | 27,203 | 46,335 | 43,287 | 7,801 | 12,570 | 21,21 |
| Gold | | • | • | • | • | • | |
| Unrefined bullion(d) | '000 grams | 3,091 | 2,697 | 2,809 | 5,205 | 7,265 | 8,74 |
| Refined | '000 cu m | 160 9,316 | 10,139 | 24 9,552 | 233 99,384 | 21 244,062 | 10 475,08 |
| Crude oil(e) | tonnes | 62,905 | 56,839 | 51,194 | 9,909 | 8,216 | 11,19 |
| Diamonds— | tomics | • | - | • | | • | • |
| | metric carats | 807,960 | 1,084,883 | 928,558 | 3,099 | 3,717 | 3,42 |
| Gemstone | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 59,416 | 90,196 | 69,091 | 9,346 | 14,734 | 14,30 |
| Phosphate rock | '000 tonnes | 2,282 | 3,104 | 2,639 | 22,647 | 35,232 | 74,05 |
| Potassium fertilisers | tonnes | 165,412 498,275 | 190,596 608,010 | 211,108 925,747 | 4,701 6,660 | 5,220 8,329 | 9,52 14,89 |
| | | | | | | | |

⁽a) In addition to the commodities listed, significant quantities of bauxite and nickel ores and concentrates are exported but details are not available for publication. (b) Quantities shown for metallic minerals are gross quantities, not metallic contents. (c) Includes also partly refined oil, topped crudes and enriched crudes. (d) Gold content. (e) Includes also partly refined oil, topped crudes, enriched crudes and refinery feed stock.

Considerable quantities of metallic ores, concentrates, slags, and residues are exported from Australia for refining overseas. The following table shows selected items exported during 1974–75 and their principal metallic content as estimated by assay.

PRINCIPAL METALLIC CONTENTS OF SELECTED ORES AND CONCENTRATES ETC., EXPORTED FROM AUSTRALIA, 1974-75

| | Metallic | contents-e | stimated fro | m assay | | | | |
|--------------------------------|---|---|--------------|---|--------|--------------------|---|---------|
| Ores and concentrates, etc. | Copper | Lead | Zinc | Tin | Iron | Tungstic oxides | Gold | Silver |
| | | | | | '000 | | '000 | ·000 |
| | tonnes | tonnes | tonnes | tonnes | tonnes | tonnes | grams | grams |
| Copper concentrate | 38,895 | 46 | | | | | 2,722 | 6,226 |
| Blister copper | 14,895 | | | | | | 1,889 | 3,036 |
| Copper matte, slags, etc.(a) . | 3,630 | 5,637 | | | | | 614 | 9,199 |
| Lead concentrate | 2,417 | 20,311 | 6,791 | | | | 1,960 | 73,780 |
| Lead bullion | 5 | 151,297 | | | | | | 302,972 |
| Lead slags and residues | 796 | 7,545 | 61 | 79 | | | 89 | 15,001 |
| Zinc concentrate | | 1,747 | 231,664 | | | | | 41,342 |
| Zinc slags and residues | | | 4,399 | | | | | ٠., |
| Tin concentrate | | | | 5,414 | | | | |
| Iron ore— | | | | - • | | • • • | • • | |
| Pellets | | | | | 4,808 | | | |
| Fines | | | | | 22,254 | | • | |
| Lump | | | | | 26,591 | | • | |
| Scheelite concentrate | | | | | 20,051 | 1.319 | • | |
| Wolfram concentrate | • | • | :: | | | 384 | • | |
| | • • | •• | | • | • • • | | • • • | • • • |
| Total metallic content . | 60,638 | 186,583 | 242,915 | 5,493 | 53,653 | 1,703 | 7.274 | 451,556 |

⁽a) Includes copper matte, copper slags and residues and copper-lead dross and speiss.

Prices

The following table shows average prices of some principal refined metals and ores and concentrates on Australian and certain major overseas markets. Prices of minerals such as iron ore, coal and bauxite are not shown, as these minerals are commonly sold on a contract basis rather than on an open market basis.

AVERAGE DAILY PRICES OF SELECTED METALS AND METALLIC ORES AND CONCENTRATES: AUSTRALIAN AND OVERSEAS MARKETS

(Source: Bureau of Mineral Resources, Geology and Geophysics)

| | | | | | | | | METAL | .S(a) | | | | | | |
|--------------------------------------|--------------------------|-----|------------------------------------|-------------------|------------------------|--------------------------|----------------|-------------------------------|-------|-------------------------|---|---|---------------------------------|---------------------------|------------------------------------|
| | | | | | | | | | | | G | iold | | | |
| | Tin | | | | | | | Alumini | um | | _ | Premium | | Silver | |
| Period | Aust. (\$A— tonne) | (| L.M.E. (£Stg— metric ton) | (\$/ | raits Mal- icul) | | lb) | Aus (\$A—ton | | | | markets \$A—f. oz) Australia and Overseas | U.K. (\$US—f. oz) | Aust. (\$A—kg) | U.K (Stg new pence— f. oz |
| 1972-73 .(1973-74 . 1974-75 . | 4,774.1 | - 2 | 1,630.5 2,882.8 3,246.7 | 9: | 27.7 57.0 22.3 | | .8 59 93 | (b)578 585 671 | .0 | 24. 28. 38. | 2 | 58.40 88.47 121.54 | 77.92 130.76 167.76 | (d)156.6 82.5 104.9 | 83.6 162.8 187.9 |
| 1974-75- Highest Lowest | 6,991.0 5,262.0 | | 4,195.0 2,925.0 | | 10.0 10.0 | | 01 85 | 707. 591. | | 39.0 33.5 | | 132.02 92.63 | 195.25 131.50 | 119.8 89.3 | 220.8 158.7 |
| | Сорре | :r | | | L | ead | | | | | _ | Zinc | | | |
| Period | Au (\$A toni | _ | L.M (£St metric | g— | _ | Aust. (\$A— tonne) | - (| L.M.E. (£Stg— tric ton) | | '.S.A. c—lb) | | Aust. (\$A— tonne) | L.M.E. (£Stg— metric ton) | Prod. (£Stg— ton) | U.S.A (USc—lt |
| 1972-73 . 1973-74 . 1974-75 . | 990 1,428 1,050 | . 8 | 98 | 8.6 0.7 8.3 | (Ь |)250.0 358.4 366.6 | | 137.8 237.4 216.5 | 1 | 15.63 18.48 23.95 | | (b)355.5 454.2 612.8 | 177.2 582.0 359.1 | 174.3 282.4 353.6 | 19.41 27.45 38.55 |
| 1974-75- Highest Lowest | 1,480 900 | | | 2.5 7.8 | | 380.0 290.0 | | 246.0 143.0 | | 24.50 19.00 | | 640.0 519.0 | 501.0 300.5 | 360.0 330.0 | 40.00 34.50 |

AVERAGE DAILY PRICES OF SELECTED METALS AND METALLIC ORES AND CONCENTRATES: AUSTRALIAN AND OVERSEAS MARKETS—continued

ORES AND CONCENTRATES

| | | | | Ilmenite | | Rutile | | Zircon | | |
|-------------------------------|------|-------------------------|---|-------------------------------------|---|---------------------------|---|------------------------|--|--|
| Period | (\$. | Tin Aust. A—mtu) | Wolfram U.K. (£Stgmtu) | Aust. (\$A—ton) | Europe (£Sig metric ton) | Aust. (\$A— ton) | Europe (£Stg— metric ton) | Aust. (\$A— ton) | Europe (£Stg— metric ton) | |
| 1972-73 1973-74 1974-75 | : | 27.93 42.43 48.58 | 14.00-19.15 15.70-45.50 37.00-50.25 | 10.5-12.0 10.5-12.0 11.0-12.0 | 9.35-11.32 9.35-11.32 13.00-18.00 | 115-125 125-130 (e) | 64.00-87.00 127.00-240.00 200.00-330.00 | 35-39 45-50 (e) | 26.82-38.00 45.00-240.00 170.00-330.00 | |
| 1974-75- Highest Lowest | | 52.88 46.06 | 50.25 37.00 | 12.0 11.0 | 18.00 13.00 | (e) (e) | 330.00 200.00 | (e) (e) | 330.00 170.00 | |

⁽a) Where a daily price does not actually exist for a commodity, daily prices have been imputed from price data which are available. (b) \$ per ton. (c) \$ Stg per metric ton. (d) Ac per f.oz. (e) No price quoted.

REVIEW OF RECENT DEVELOPMENTS IN THE AUSTRALIAN MINERAL INDUSTRY

Major developments in the Australian mineral industry, particularly during the last year, are reviewed briefly in subsequent parts of this section. Additional information on developments in the industry is available in Australian Mineral Industry 1973 Review published by the Bureau of Mineral Resources, Geology and Geophysics. That publication contains comprehensive reviews of mineral commodities of importance to the Australian economy, as well as a general review of the industry's performance during the year.

General Review of 1974

The worldwide resurgence of demand for mineral commodities, which was observed in 1973 and attributed to accumulation of consumer stocks ahead of inflation, was followed in 1974 by a period of recession in the mining industry. The major factor contributing to the recession was continuing inflation of costs both in the mining industry and in the consumer industries. Manufacturers faced with liquidity problems reduced mineral inventories, and stocks held by producers and in terminal markets rose to record levels.

However, with the exception of iron and steel, the Australian mineral industry continued to expand in 1974, and at a considerably faster rate than in the two preceding years. The annual rate of growth in the value of mineral output was about 24 per cent compared with 18 per cent in 1973 and 13 per cent in 1972 although the index of mineral output at constant prices indicated slower growth rates for these years (5, 16 and 8 per cent respectively). The increased rate of growth in 1974 resulted mainly from buoyant overseas markets in the first half of the year, and, despite falling demand for many metals in the second half of the year, continuing strong demand for coal and mineral sands. Devaluation of the \$A in September 1974 also contributed to the higher growth rate.

The ex-mine value of minerals produced in 1974 was a record \$2,732 million, exceeding the previous record, in 1973, by \$528 million or 24 per cent. The increase was largely the result of increased production of black coal, iron ore, copper ores and concentrates, construction materials, lead and zinc ores and concentrates, and nickel ores and concentrates, and record prices for many minerals on world markets.

The index of mineral output at constant prices indicated an increase in the quantum of production of 5 per cent. Value added by the mining industry (i.e. excluding smelting and refining) in 1973-74 was \$1,985 million compared with \$1,597 million in the previous fiscal year, an increase of 24 per cent.

Mines and quarries (except gold) became the largest single export-earning group in 1969-70 but in 1974-75 was exceeded slightly (by 0.1 per cent) by 'Agriculture' which more than doubled its earnings largely because of high world prices for sugar and cereal grains. However 'Mines and quarries' accounted for a record 26.9 per cent of total exports although this was achieved partly at the expense of 'Wool' and 'Other pastoral' exports whose combined relative contribution fell from 32.8 per cent in 1973-74 to 16.5 per cent in 1974-75.

Details on monthly prices, and price specifications relating to each commodity in the table are contained in each issue of the bulletin, Minerals and Mineral Products (10.19).

The import bill for mineral primary products in 1974 rose dramatically by 169 per cent from \$215 million to \$580 million; this was primarily because of a fourfold increase in the value of crude oil imports which rose from \$114 million (53 per cent of total imports) in 1973 to \$420 million (72 per cent) in 1974. In 1974, imports of mineral primary products accounted for 7.5 per cent of the total value of merchandise imports, compared with 4.5 per cent in 1973.

Despite the increase in the value of mineral imports the surplus in the balance of trade in minerals (excluding gold) increased by 24 per cent from \$1,475 million in 1973 to \$1,826 million in 1974.

Results of the 1973-74 economic census show that value added by the mining industry (Australian Standard Industrial Classification sub-divisions 11-15 incl.), was \$1,985 million. Value added by smelting and refining (ASIC classes 1911, 1912 and 2921 to 2926 inclusive of the Manufacturing Industries division) was \$968 million for the same period.

Bauxite

The history of the aluminium industry and recent significant developments in the industry were reviewed in previous issues of the Year Book (No. 51, page 1168 and No. 52, page 1048).

In 1974 bauxite production capacity at Weipa, Queensland, increased to 10.5 million tonnes per annum following completion of a further stage in the development of the mine and associated township, and of ore treatment and loading facilities. Approximately 4 million tonnes from Weipa were used by the Gladstone, Queensland, alumina refinery in 1974; the remaining production is available for export.

A firm decision has not yet been made to proceed with the bauxite/alumina projects in Western Australia to mine bauxite from the Mount Saddleback area. The plan to mine bauxite in the Chittering area and for a refinery to be built near Muchea has been abandoned.

Alumina

Rated capacity of the alumina plant at Gladstone, Queensland, is now 2,000,000 tonnes per annum, at Gove, Northern Territory, 1,000,000 tonnes and at Kwinana, Western Australia, 1,400,000 tonnes. Bauxite supplies for the Kwinana refinery are obtained from deposits 50 km away at Jarrahdale, Western Australia, the reserves of which are assessed as at least 500 million tonnes. The alumina plant at Pinjarra, Western Australia, has a rated annual capacity of 1,000,000 tonnes and uses bauxite from Del Park. This is to be expanded to 2,000,000 tonnes by the end of 1977. North of the Mitchell Plateau, at Cape Bougainville, a bauxite deposit of 995 million tonnes averaging 36 per cent total alumina has been outlined.

The Queensland Government approved draft legislation in November 1975 for the establishment of an alumina refinery based on bauxite to be mined at Aurukun, south of Weipa.

Copper

Mine production of copper at Mount Isa decreased to 136,000 tonnes in 1975. The mine at Mount Morgan, Queensland, is expected to close at the end of 1976 because reserves are nearly exhausted. Mine production increased at the Mammoth Mine, at Gunpowder, Queensland, in line with current expansion plans to lift production to 600,000 tonnes of ore per year.

Copper mining and smelting ceased in February 1975 at Tennant Creek, Northern Territory, because of technical and economic difficulties.

The mine at Mount Gunson, South Australia, continued to expand, becoming the fifth largest Australian copper producer in its first full year of operation.

A major copper lode has been outlined by drilling at Golden Grove, Western Australia, and a second deeper lode is indicated. Resource potential is assessed at 13.5 million tonnes with an average grade of 3.5 per cent copper.

Iron

The major development of recent years has been the establishment in Australia of a large scale iron ore export industry based principally on steelmaking requirements in Japan. Exports of iron ore and iron ore pellets in 1974 to Japan and elsewhere were 83.4 million tonnes valued at \$588 million.

A magnetite beneficiation plant of 1.3 million tonnes per year capacity was commissioned in 1975 at Whyalla, South Australia.

In 1975 production and shipment capacity for pellets and fines shipped out of Cape Lambert from the Robe River deposits was increased to 5 million tonnes per year and 9.4 million tonnes per year respectively. The Mount Newman Consortium's program to expand production and shipment capacity to 40.6 million tonnes by 1976 was continued.

Silver, lead and zinc

Production of lead and zinc metal rose in 1975 to 390,000 tonnes and 460,000 tonnes respectively.

A summary of the Australian lead and zinc industry from 1953 to 1973 was published in the Australian Mineral Industry Quarterly Review Vol. 27, No. 4.

Two new silver-lead-zinc discoveries were reported in 1975. These were at Elura, near Cobar, New South Wales, where resources of 22 million tonnes averaging 5.6 per cent lead, 8.6 per cent zinc and 135 grams silver per tonne are indicated; and at Que River, north of Rosebery, Tasmania, the deposit has estimated resources of 4.2 million tonnes averaging over 0.36 per cent copper, 6.5 per cent lead, 11.6 per cent zinc, 107 grams silver and 2 grams of gold per tonne, and 0.64 million tonnes of 1.7 per cent copper, 3 per cent lead, 5.3 per cent zinc and 55 grams silver per tonne.

Deep drilling at the North Mine, Broken Hill, New South Wales, encountered lead-zinc-silver mineralization.

At the McArthur River deposit, Northern Territory, a two year testing program has commenced to obtain information for a comprehensive feasibility study of the deposit.

Black coal

There has been a significant revival in the Australian black coal industry in recent years as a result of increased exports and increased consumption of black coal in iron and steel production and electricity generation. These increases have more than balanced reduced consumption in some applications due to competition from fuel oil.

The expansion of the export trade has been of major significance. In 1955 exports were about 200,000 tonnes valued at about \$1.7 million; in 1975 exports were 29.9 million tonnes valued at \$780 million. These increased exports have been largely to Japan for use in the iron and steel industry and to Europe (steaming coal). As a result of this increased demand, new mines have been opened and others are under development in Queensland and New South Wales, and many established mines are being expanded. Exploration for coal has been stimulated and further rich deposits of coking coal and steaming coal have been located, particularly in Queensland.

Petroleum

At the end of 1975 there were seven oil fields in production: Moonie, Alton and Bennett in Queensland; Barrow Island in Western Australia; and Barracouta, Halibut and Kingfish in the Gippsland Shelf area offshore from Victoria in Bass Strait. The production of crude oil from these in 1975 amounted to 23,900,000 cubic metres representing 71 per cent of the year's total input to Australian refineries of crude oil and other feedstock of 33,600,000 cubic metres. The average daily production of 65,300 cubic metres in 1975 was about 6 per cent higher than the 61,400 cubic metres daily average in 1974. Natural gas production in 1975 amounted to 5,285 million cubic metres, 13 per cent more than in 1974. About 10 per cent of the 1975 total production was used in the field and processing plants and the balance was sold mainly as fuel to markets in Victoria, South Australia, Western Australia and Queensland.

Discoveries made in 1975 included one of oil (non-commercial) at Tidepole in the Dampier Subbasin of the Carnarvon Basin, on the Northwest Shelf, offshore from Western Australia, and two of natural gas, one at Tidepole, and one at Sunrise, in the offshore part of the Bonaparte Gulf Basin.

The provisional figure for metres drilled in petroleum exploration and development in Australia in 1975 was 58,576 metres, which is some 79,950 metres (about 58 per cent) less than the metres drilled in the previous year. About 48,228 metres of the 1975 total was attributable to exploration drilling, of which 35,652 metres were drilled offshore. Of the 29 wells completed in 1975, 25 were exploration wells, of which 19 were offshore. In comparison with the previous year there was a decline of 27 in the number of exploration wells and 19 development wells; there was a decline of 12 in the number of offshore exploratory wells. Of the exploration wells drilled, 1 was completed as a potential oil and gas producer and 2 as gas producers; of the development wells 4 were completed as potential gas producers.

Nickel

Output from Australia's major nickel mining operation at Kambalda in Western Australia has grown to more than 37,000 tonnes of contained nickel per annum. Mines at Nepean, Scotia, Redross and Spargoville (Location 3) produce more than 8,000 tonnes contained nickel per annum. Production at the Mount Windarra mine was 12,000 tonnes of contained nickel in 1975.

The Agnew, Western Australia, project seems likely to proceed to the detailed design stage in August 1976 with a view to commencing production in 1978. A nickel sulphide concentrate will be produced for sale and planned output is about 10,000 tonnes of nickel metal in concentrates.

Mineral sands

The history of the mineral sands industry and an assessment of rescources in presented in the Australian Mineral Industry—Quarterly Review Vol. 25 No. 1.

Two mines commenced production on a commercial scale at Eneabba, Western Australia, in the later part of 1974. Two additional plants are expected to come on stream in 1976. By the end of 1976, installed capacity of about 150,000 tonnes of rutile per year should be available in the Eneabba-Jurien Bay area. A commercial 30,000 tonnes per annum upgrading plant was commissioned at Capel in June 1974 and by year end had achieved better than rated capacity.

Phosphate

Production of "direct shipping" grade rock commenced from the Duchess desposits in 1975; with the completion of a 68 km spur in 1976, the production will rise to 1 million tonnes per year and is expected to be expanded to 3 million tonnes by 1977.

Manganese

The program to expand production at Groote Eylandt from 1.3 million tonnes per year to 2 million tonnes per year was continued during 1975 and should be completed in early 1976.

CHAPTER 27

ELECTRIC POWER GENERATION AND DISTRIBUTION

This chapter is divided into three major parts: the Introduction, which deals briefly with the resources, generation and distribution, and future development of electric power in Australia; the Snowy Mountains Hydro-electric Scheme; and the origins, development, present situation and new projects of electrical systems in each Australian State and internal Territory.

The information contained in the chapter relates to situations existing and projects contemplated, and may be considerably affected by changes in policy or plans, or by developments in the projects themselves. Greater descriptive and historical detail about the various systems is contained in earlier issues of the Year Book. For further details see also the annual reports of the respective authorities. Statistics on the electricity industry are included in tables in Chapter 21, Manufacturing Industry.

INTRODUCTION

Distribution of population and location of electric power resources in Australia

The two principal centres of population and industry in Australia, the metropolitan areas of Sydney and Melbourne, make the greatest demands for electric power, and their growth has been associated with the development of large deposits of coal located relatively close to the source of demand. This, together with the fact that the major water resources are also located in the south-eastern portion of Australia, materially influences the distribution of industrial population and the location of major electric power stations. By far the most important source of energy used in the production of electric power in Australia is coal.

Most of Australia is poorly supplied with water, only about 13 per cent receiving an annual rainfall of 30 inches or over, and these areas are confined largely to Tasmania and to the narrow coastal strip along the east coast of the mainland. The only region on the mainland of Australia high enough to receive reliable winter snowfall, and from which, therefore, reasonably constant water supplies throughout the year can be expected, is the mountain chain which stretches from the high plateaux of south-eastern New South Wales to the north-eastern highlands of Victoria. The hydro-electric potential of this area is considerable; the two major projects in the area are the Snowy Mountains and Kiewa schemes. Other hydro-electric potential does exist on the mainland on the rivers of the coastal areas of New South Wales and Queensland, but the amount available is smaller than the potential of the Alpine region. In Tasmania, hydro-electric resources have been estimated at about 50 per cent of the total Australian hydro-electric potential. On the mainland the chief source of energy is coal; in Tasmania it is water.

Electric power generation and distribution

At the beginning of this century Australia's electrical undertakings were carried on mainly by private enterprise, but with some measure of government control designed to provide standards of safety and to define the scope and obligations of the private organisations. A trend towards public ownership commenced during the 1914–18 War and became more pronounced after the 1939–45 War. By 1961 all major generating stations supplying the public were, in varying degrees, under the control of statutory organisations constituted with the object of unifying and co-ordinating the generation and distribution of electricity supplies. There are still a large number of small private and municipal enterprises generating power for supply to country towns, although central authorities are extending supply to these places wherever practicable. In many areas it has been, and remains, the practice for central authorities to sell power in bulk to local distributing organisations which undertake reticulation.

In addition to the private, local government and statutory organisations which generate and/or distribute electricity for sale, numerous firms generate power for use in their own establishments, particularly those engaged in mining remote from the main centres of population. This chapter, however, is concerned mainly with the activities of central electric stations, as the power regularly

produced for such internal consumption is, in any case, a relatively small proportion of the total power produced. The measures taken by authorities to satisfy the demand created by the post-war growth in population and building and by developments in industry and commerce are described in the following pages.

SNOWY MOUNTAINS HYDRO-ELECTRIC SCHEME*

Snowy Mountains Hydro-electric Power Act 1949

In July 1949 the Commonwealth Government established the Snowy Mountains Hydro-electric Authority, and empowered it to generate electricity by means of hydro-electric works in the Snowy Mountains Area; supply electricity to the Commonwealth Government (i) for defence purposes, (ii) for consumption in the Australian Capital Territory; and supply to a State, or to a State Authority, electricity not required for defence purposes or for consumption in the Australian Capital Territory.

The Snowy Mountains Act is supported by a detailed agreement between the States of New South Wales and Victoria and the Commonwealth Government with regard to the construction and operation of the Scheme, the distribution of power and water, charges to be made for electricity, and other such matters. The Snowy Mountains Council, established under the terms of the Agreement and consisting of representatives of the Commonwealth Government, the Authority and the two States, directs and controls the operation and maintenance of the permanent works of the Authority and the allocation of loads to generating stations.

Snowy Mountains Hydro-electric Scheme

The broad basis of the Snowy scheme is to transfer waters, which would otherwise flow to the sea unharnessed, from the Snowy River and its tributaries to the inland system, so that the water may be used for irrigation and to provide power. It involves two main diversions, the diversion of the Eucumbene, a tributary of the Snowy, to the Upper Tumut River, and the diversion of the main stream of the Snowy River at Island Bend and Jindabyne to the Swampy Plain River. These two diversions divide the scheme geographically into two sections, the Snowy-Tumut Development and the Snowy-Murray Development (see plate 61 opposite). For purposes of both power production and irrigation it is necessary to regulate run-off, and this is achieved by the use of Lake Eucumbene (formed by the construction of Eucumbene Dam) and other storages to control the waters of the Eucumbene, Murrumbidgee, Tooma, and Tumut Rivers for the Snowy-Tumut Development and of the Snowy and Geehi Rivers for the Snowy-Murray Development. A sectional diagram of the scheme appears on plate 62, page 976.

Snowy-Tunut Development. This development comprises works for the diversion and regulation of the waters of the Eucumbene, Upper Tooma, Upper Murrumbidgee, and Upper Tumut Rivers and their combined development through a series of power stations down the Tumut River. A major dam has been constructed on the Eucumbene River to create Lake Eucumbene, which has an ultimate useable storage of 4,300 million cubic metres. The waters of the Upper Murrumbidgee River are diverted into Lake Eucumbene by a dam at Tantangara and a 17-kilometre tunnel from Tantangara Reservoir. From Lake Eucumbene the water flows through a 23-kilometre tunnel to Tumut Pond Reservoir on the upper reaches of the Tumut River, where it joins the waters of the Tumut River itself and the waters of the Tooma River diverted to Tumut Pond Reservoir by a diversion dam and a 14-kilometre tunnel.

From Tumut Pond Reservoir water is conveyed by pressure tunnel to Tumut 1 underground Power Station (capacity 320MW), returned to the Tumut River and then by another pressure tunnel to Tumut 2 underground Power Station (capacity 280 MW), thence discharging into Talbingo Reservoir, also on the Tumut River.

Tumut 3 Power Station, the largest station of the scheme (generating capacity 1,500 MW and pumping capacity 300 cubic metres per second) has been constructed below Talbingo Reservoir and discharges into Jounama Pondage on the Tumut River. This pondage provides a downstream pumping pool and also regulates discharges from Tumut 3 Power Station as required. Releases from Jounama Pondage then enter Blowering Reservoir formed by Blowering Dam. This dam, constructed by the Snowy Mountains Authority as an agent for the State of New South Wales, provides for the regulation of power station discharges for irrigation use in the Murrumbidgee Valley. The Authority has constructed a power station at the foot of the dam to generate power from releases of water for irrigation purposes.

Snowy-Murray Development. The principal features of the Snowy-Murray Development are the diversion of the main stream of the Snowy River by tunnels, shafts, and pipelines westwards through

^{*} See also Chapter 23 Water Resources of this issue and special detailed article in Year Book No. 42, pp. 1103-30.

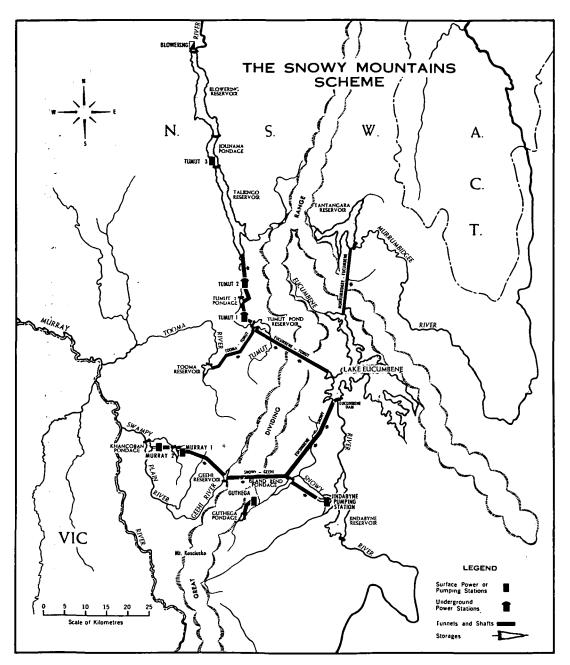
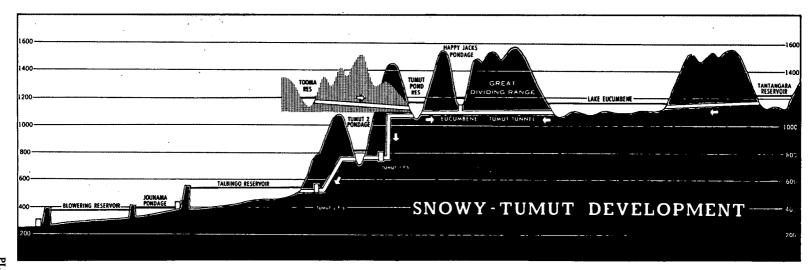
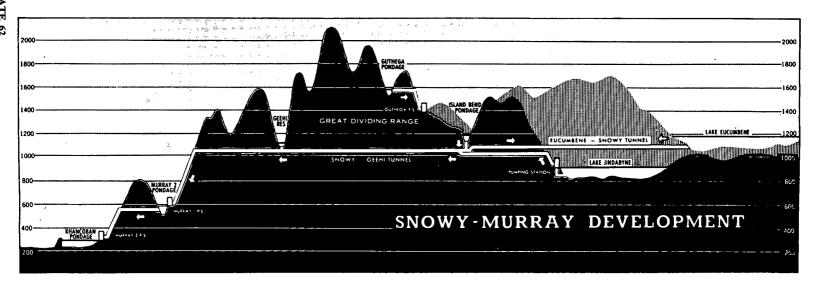


PLATE 61





the Great Dividing Range into the Swampy Plain River in the catchment of the Upper Murray, and the development of power on the western slopes of the Alps. The main works of the development are as follows:

- (a) A tunnel from the Snowy River near Island Bend through the Great Dividing Range to Geehi Reservoir on the Geehi River, and two power projects between Geehi Reservoir and the Swampy Plain River near Khancoban. The power stations associated with these two power projects, Murray 1 and Murray 2, have a combined capacity of 1,500 MW.
- (b) A tunnel from a dam on the Snowy River near Island Bend to Eucumbene Dam to carry Snowy water to Lake Eucumbene for storage at times of high river flows. When river flows are lower than average, this stored water is returned towards Island Bend and thence through the Snowy-Geehi Tunnel to Geehi Reservoir and Murray 1 and Murray 2 Power Stations.
- (c) A dam on the Snowy River near Jindabyne to store the residual flow of the Snowy and Eucumbene Rivers downstream from Island Bend and Eucumbene Dams, including the flows of major tributories, the Crackenback and Mowamba Rivers; and a pumping plant, pipeline and tunnel to lift this water from Jindabyne Reservoir to the Snowy-Geehi Tunnel near Island Bend, where it joins the flow to the Geehi Reservoir for use through Murray 1 and Murray 2 Power Stations.

The power output of this section of the Scheme is increased by the Guthega Project, a subsidiary hydro-electric project on the Upper Snowy River above Island Bend with a generating capacity of 60 MW.

Utilisation of power from scheme

The future electric power plants on the mainland of Australia will be predominantly thermal or thermo-nuclear installations, and in an electrical system in which the greater part of the energy is generated in thermal plants it is usually found that the hydro installations operate to the best advantage on peak load. However, the existing New South Wales and Victorian systems include a proportion of relatively old and less efficient installations which, for reasons of fuel economy, are also best used for the production of peak load power. Therefore, in order to utilise the potential of the Snowy Mountains Scheme most effectively, the order of development was arranged so that the early stations operated, initially, somewhat below the peak of the system load, with a progressive change to predominantly peak load operation as construction proceeded and as the load increased in magnitude.

The Snowy Mountains Scheme is situated about midway between the principal load centres of Sydney and Melbourne and is connected to those cities by 330kV transmission lines. It is, consequently, in a position to take advantage of the diversity in the power requirements of these two load systems, a most important factor in so far as it affects the economy of operation of the supply systems of the two States. The average energy generated by the Snowy Mountains Hydro-electric Scheme is 5,070 million kWh a year. The Commonwealth Government reserves 670 million kWh for supply to the A.C.T., and Victoria receives one-third of the surplus and N.S.W. is entitled to the other two-thirds. For convenience, the Commonwealth Government's requirements are drawn from the New South Wales transmission network by an exchange arrangement between the Commonwealth Government and the Electricity Commission of New South Wales. Electricity over and above that required by the Commonwealth Government is divided between the States of New South Wales and Victoria in the ratio 2:1.

Progress of the scheme

The scheme's first power station, Guthega, of 60 MW capacity, came into operation in February 1955. It was followed by Tumut 1, an underground power station with a capacity of 320 MW, in 1959, and by the 280 MW Tumut 2 underground Power Station in 1962. Eucumbene Dam, which provides the major regulating storage for the scheme, was completed in May 1958. Tumut Pond Dam, completed in September 1958, provides the balancing storage for the power stations of the Upper Tumut Works. The first trans-mountain diversion of water from Lake Eucumbene to the Tumut River at Tumut Pond was made possible when the 23 kilometre Eucumbene-Tumut Tunnel was completed in June 1959. The 17 kilometre Murrumbidgee-Eucumbene Tunnel and the 14 kilometre Tooma-Tumut Tunnel came into operation early in 1961. Following the completion of the Upper Tumut Works, construction activity was concentrated on the Snowy-Murray Development. The first unit of this development, the Eucumbene-Snowy project which comprises Island Bend Dam and the 24 kilometre Eucumbene-Snowy Tunnel, commenced diverting Snowy River water to storage in Lake Eucumbene in August 1965. Completion of a 14 kilometre trans-mountain Snowy-Geehi Tunnel, the 12 kilometre Murray 1 Pressure Tunnel, the first of the 1.6 kilometre long Pressure Pipelines, and the first two units of the 950 MW Murray 1 Power Station in April 1966 allowed the first diversion of the water from the Snowy River to the Murray River in the west. All of the ten turbo-generators were brought into commercial operation with the opening of the Murray 1 Project in July 1967.

Khancoban Dam, designed to regulate power station releases before their discharge into the Murray River, was completed in February 1966. The Murray 2 Project in the base of the open cut excavated in the bank of Khancoban Reservoir downstream of Murray 1 Project was completed in 1969. The four units of Murray 2 Power Station totalling 550 MW came into commercial operation in October 1969. Construction is also complete on the Jindabyne Project. The earth and rockfill dam was completed in September 1967, and the pumping station and Jindabyne-Island Bend Tunnel came into service in February 1969.

Blowering Dam on the Tumut River came into service in May 1968, and the 80 MW Blowering Power Station began commercial operation in August 1971.

The total installed capacity of the scheme has now reached 3,740 MW.

For the Tumut 3 Project the construction of Jounama Dam was completed in 1968 so that the storage of water in Blowering Dam could commence. Talbingo Dam was completed in October 1970 and Tumut 3 Power Station was officially opened in October 1972 with two generators in operation. The succeeding four generators were brought into service to achieve full operation in 1974.

STATES AND TERRITORIES

New South Wales

In Year Book No. 39 an account was given in some detail of the origin and development of electricity generation and distribution in New South Wales. At present the following four Acts govern electricity supply in New South Wales.

The Local Government Act, 1919, which lays down the various rights and responsibilities of local government bodies in the establishment and operation of electricity trading undertakings.

The Gas and Electricity Act, 1935, established the Sydney County Council which is responsible for the distribution of electricity in a large part of the Sydney metropolitan area. The Act also amended the Local Government Act in certain respects.

The Electricity Development Act, 1945, which established the Electricity Authority of New South Wales as the body responsible for the promotion, regulation and co-ordination of electricity supply throughout the State including matters relating to electrical safety.

The Electricity Commission Act, 1950, which constituted the Electricity Commission of New South Wales as the major generating and bulk transmission authority.

Electricity Commission of New South Wales and electricity supply authorities

The main function of the Commission is the generation and transmission of electricity, which it sells in bulk to distributing authorities (mainly local government bodies) throughout a large part of the State, to the Government railways and to certain large industrial consumers. As the major generating authority, it is also responsible for the development of new power sources except in the Snowy Mountains region.

The retail sale of electricity to the public is, in general, carried out by separate electricity supply authorities. At 30 June 1975 there were 41 retail supply authorities throughout the State, comprising 34 electricity councils (consisting of groups of shire and/or municipal councils), 2 city councils, 1 municipal council, 2 shire councils, and 2 private franchise holders. In addition to the Electricity Commission, 2 coal companies supply electricity in bulk to retail supplying authorities. Most of the small power stations which had operated in many country centres have closed down as the main transmission network has been extended.

Most electricity distribution areas have been consolidated into county districts consisting of a number of neighbouring local government areas grouped for electricity supply purposes, and administered by a county council comprising representatives elected by the constituent councils. Of the 222 cities, municipalities and shires in New South Wales, 215 are included in one or other of the 34 electricity county districts.

The Electricity Authority of New South Wales

The Electricity Development Act, 1945, confers broad powers on the Electricity Authority to co-ordinate and develop the public electricity supply industry. The functions of the Authority include the promotion of the use of electricity and especially its use for industrial and manufacturing purposes and for primary production. Technical advice is given to retail electricity supply authorities on various aspects of their activities such as the framing of retail electricity tariffs, public lighting and

standardisation of materials and equipment. The Authority acts in an advisory capacity to the Minister for Mines and Energy on electricity distribution matters generally, and may make recommendations concerning the organisation of distribution, the amendment of the law relating to the generation, transmission, distribution and supply of electricity, or on any other matters affecting the electricity distribution industry.

The Authority administers the Rural Electricity Subsidy Scheme under which the rural electrical development of the State has now been virtually completed where the extension of supply is economically feasible. Under the subsidy scheme, local electricity suppliers receive subsidies from the Authority towards the cost of new rural lines. At 30 June 1975 the Authority was committed to the payment of \$38,902,028 in subsidies, of which \$32,435,374 had been paid. Further details of the operation of the scheme are given on page 956, Year Book No. 56.

The Electricity Development Act contains provisions for the making of regulations relating to most aspects of electrical safety. Regulations now in force cover such matters as consumers' installations, licensing of electricians and electrical contractors, approval of electrical articles, safety of linesmen, and overhead line construction and maintenance. In addition, a number of aspects not governed by legislation are covered by codes of practice or recommended procedures.

The Authority also administers the Traffic Route Lighting Subsidy Scheme, which provides for financial assistance to councils towards the cost of installation of improved lighting on traffic routes traversing built-up areas with the objective of reducing the incidence of night road accidents. Since the introduction of the scheme in 1964, subsidy has been approved in respect of some 1,404 kilometres of traffic routes throughout the State.

Generation and transmission

Of the State's electrical power requirements during the year ended 30 June 1975, 97.6 per cent was generated in New South Wales (78.4 per cent by coal fired power stations, 0.3 per cent by internal combustion plants, 16.5 per cent from the Snowy Mountains Hydro-Electric Authority and 2.4 per cent by other hydro-electric stations). Net interstate imports of electricity accounted for the remaining 2.4 per cent.

Major generating stations. At 30 June 1975 the major power stations of the State system of the Electricity Commission of New South Wales and their nominal capacities were as follows: Liddell (Hunter Valley), 2,000 MW; Munmorah (Tuggerah Lakes), 1,400 MW; Vales Point (Lake Macquarie), 875 MW; Wangi (Lake Macquarie), 330 MW; Tallawarra (Lake Illawarra), 320 MW; Wallerawang (near Lithgow), 240 MW; Pyrmont (Sydney), 200 MW. The total nominal capacity of the Electricity Commission's system as at 30 June 1975 was 6,377 MW. The greater part of the Commission's generating plant is concentrated within a one hundred and eighty-five kilometre radius of Sydney.

Major transmission network. The retailing of electricity to 97 per cent of the population of New South Wales is in the hands of local distributing authorities, which obtain electricity in bulk from the Commission's major State network. This network of 330 kV, 132 kV, 66 kV and some 33 kV and 22 kV transmission lines, links the Commission's power stations with the load centres throughout the eastern portions of the State, extending geographically up to 650 kilometres inland.

At 30 June 1975 there were in service 3,207 circuit kilometres of 330 kV and 6,282 kilometres of 132 kV transmission lines (including 206 kilometres operating for the time being at 66 kV). There were also in service 4,446 kilometres of transmission line of 66 kV and lower voltages, and 435 kilometres of underground cable. The installed transformer capacity at the Commission's 152 sub-stations was 21,423,450 kVA.

Separate systems and total State installed capacity. Several local government bodies operate their own power stations and generate portion of their requirements which is supplemented by interconnection with the system of the Electricity Commission. Of these the more important are the Northern Rivers County Council (installed capacity 28.75 MW) and the North-West County Council (15 MW). In addition a private company operates small stations supplying the towns of Ivanhoe and Wilcannia. The aggregate effective capacity for the whole of New South Wales systems and isolated plants was approximately 6,493 MW at 30 June 1975 and the number of ultimate consumers at this date was 1,789,337.

Future development

The major thermal stations at Liddell, Munmorah and Vales Point and those at Wangi, Tallawarra and Wallerawang are the main base load supply sources for the State.

The first 500 MW generating unit of the Liddell Power Station in the Hunter Valley was commissioned in 1971, followed by the second in 1972 and the third and fourth in 1973, making a total capacity of 2,000 MW.

Future projects include the installation of an additional 500 MW unit at Wallerawang and two 660 MW units at Vales Point to be in operation in 1976 and 1978 respectively. A further 500 MW unit is to be installed at Wallerawang in 1981. Two 660 MW units are scheduled to be installed at a new power site at Eraring in the early 1980's.

The development of the 330 kV main system is continuing. Work in progress includes the construction of major 330 kV transmission lines from Wallerawang to Sydney South and Sydney North to Sydney East. Two new 330 kV substations, Sydney East and Beaconsfield West, are being established in the Sydney Metropolitan Area. Other work is in progress and being planned throughout the State to augment the transmission system.

Hydro-electricity

The greater part of the hydro-electric potential of New South Wales is concentrated in the Snowy Mountains area (see Snowy Mountains Hydro-electric Scheme, page 974). Apart from this area, major hydro-electric stations are in operation at the Warragamba Dam (50 MW) and Hume Dam (50 MW). There are, in addition six smaller hydro-electric installations in operation in various parts of the State. A pumped-storage hydro-electric system to produce 240 MW, is being installed as part of the Shoalhaven Scheme in conjunction with the Metropolitan Water Sewerage and Drainage Board. This project is now nearing completion.

Victoria

A detailed description is given in Year Book No. 39 of the development of the generation and supply of electricity in the cities of Melbourne, Geelong, Ballarat and Bendigo to the time of the creation of the State Electricity Commission in 1921 and the early development of the Commission's undertakings.

State Electricity Commission of Victoria

Established under earlier legislation and currently operating under the provisions of the *State Electricity Commission Act* 1958 as a semi-government authority, the Commission is administered by a full-time Chairman and three part-time Commissioners. The Minister for Fuel and Power is responsible under the *Fuel and Power Act* 1965 for the operations of the Commission.

The principal function of the Commission is to generate or purchase electricity for supply throughout Victoria. For this purpose it is vested with the authority to own, erect and operate power stations and other electrical plant and installations; and to supply electricity to individual consumers or in bulk to any public institution or corporations and municipalities which have a franchise to sell direct to customers. The Commission may own, develop and operate brown coal open cuts, and briquetting plants and develop the State's hydro-electric resources. It is required to meet from its own revenue, which it controls, all expenditure involved in operating its power and fuel undertakings and to provide for statutory transfers to the Consolidated Revenue fund of the State.

The Commission is the controlling authority for all electrical undertakings in Victoria. It administers the *Electric Light and Power Act* 1958 and is responsible for the registration of electrical contractors, the licensing of electrical mechanics, the control of methods and materials used in installations and the testing and approval of electrical equipment and appliances.

Since it began operating in 1921 the Commission has expanded and co-ordinated the generation, purchase and supply of electricity on a State-wide basis to the stage where its system generates almost all the electricity produced in Victoria which has an area of 227,600 sq km and the transmission network covers practically the entire population of the State.

Victoria's electricity system is based on the utilisation of the extensive brown coal deposits in the La Trobe Valley in Central Gippsland.

In 1974-75 the output of brown coal from the Commission's three open cuts at Yallourn, Yallourn North and Morwell totalled 25.3 megatonnes of which 23.1 mt were used in the Commission's power stations. Apart from the brown coal 172 kilotonnes of briquettes and 19.4 kt of fuel oil were used as fuel in power stations.

Electricity generation, transmission and supply

In 1974-75 the Commission generated in its thermal and hydro-electric power stations or purchased 17,033 GWh. The total installed generating plant capacity at 30 June 1975 was 4,395 MW.

The power stations are interconnected and feed electricity into a common pool for general supply. The major generating plant in the interconnected system is the 1,600 MW Hazelwood base load, brown coal fuelled, power station near Morwell in the La Trobe Valley, which alone generates over 50 per cent of Victoria's electricity. Other brown coal power stations in the interconnected system

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comprise the established base load stations at Morwell and Yallourn and the partially completed Yallourn 'W' station. Peak load steam stations are located in Melbourne (Newport, Richmond and Spencer Street). Hydro-electric stations are located at Kiewa, at Eildon, on the Rubicon and Royston Rivers near Eildon and at Cairn Curran. All generators for public supply within Victoria are owned by the Commission except Spencer Street Power Station, which remains the property of the Melbourne City Council, although operated as a unit of the interconnected system.

Generation in thermal stations is supplemented by supply from the Commission's hydro stations in the mountains in the north east of the State and by entitlements from the Snowy Mountains Hydro-electric scheme in south-eastern New South Wales (one third of output after provision for the Commonwealth Government's needs) and the Hume Power Station (half of output) on the Murray River boundary with New South Wales. The Snowy Mountains Scheme is linked to the Victorian system by a 330 kV transmission line which allows for a two-way interchange with New South Wales.

At 30 June 1975 the electrical transmission and distribution system in the State supply network comprised 103,536 km of overhead lines and 2,599 km of underground lines. There are 4 autotransformation stations, 26 terminal substations, 169 zone substations and 71,680 distribution substations. Transmission is mainly by 500, 330, 220 and 66 kV lines which supply the principal distribution centres and provide interconnection between the power stations. The total length of the 500, 330 and 220 kV lines is 3,691 km.

The Commission sells electricity retail in all Victorian supply areas except for eleven Melbourne metropolitan municipalities. These municipalities purchase electricity in bulk from the Commission and retail it to approximately 260,000 customers within the municipalities concerned under franchises granted by the Victorian Government before the Commission was established in 1921. Bulk supply is also provided to several municipalities in New South Wales and to a number of towns and areas bordering the Murray River.

Retail supply is administered through the Melbourne metropolitan branch and nine extrametropolitan branches at Geelong, Ballarat, Bendigo, Dandenong, Traralgon, Mildura, Colac and Horsham. District supply offices are located in Melbourne and all other major cities and towns in the State.

Complete electrification of the State has virtually been achieved. At 30 June 1975 the Commission had 1,159,500 retail customers excluding bulk sales. There were 982,500 domestic, 82,200 industrial and 94,500 commercial consumers. In country areas electricity was supplied to about 75,000 farms.

Current and future development

The only power station currently under construction is Yallourn W in the La Trobe Valley. It is designed as a 4 unit, base load, station of 1,450 MW capacity fuelled by brown coal. The first two 350 MW units are now in commission. The second two units, each of 375 MW capacity, are scheduled to begin operating in 1980 and 1981. The Commission plans to erect a 1,000 MW natural gas fired power station at Newport to come into operation at the end of the decade. A hydro-electric station with one 150 MW unit capacity will be built at Dartmouth in north-eastern Victoria in conjunction with the dam currently under construction, to come into operation about 1979-80. A major, base load, generating complex of about 4,000 MW capacity at Loy Yang in the eastern part of the La Trobe Valley is planned to begin operating in the early 1980's.

Queensland

In Year Book No. 39 an account is given of the growth of electricity generation in Queensland, with particular reference to south-eastern Queensland, and of the events leading up to the establishment in 1937 of the State Electricity Commission of Queensland. In Year Book No. 53 an account is given of the post-war development and organisation of the electricity supply in Queensland.

Electricity supply in Queensland is governed by the following Acts which are administered by the Commission.

- 'The State Electricity Commission Acts, 1937-1965.' These Acts constituted the Commission and define its powers and duties.
- 'The Electric Light and Power Act, 1896-1972.' This Act relates to the constitution of electric authorities, except the Southern Electric Authority and the Northern Electric Authority, and defines their powers and duties and the conditions under which electricity is to be supplied and used.

'The Regional Electric Authorities Acts, 1945-1964.' These Acts provide for the constitution of Regional Electricity Boards representative of the Commission and the Local Authorities within each region, and define their powers and responsibilities.

'The Southern Electric Authority of Queensland Acts, 1952-1964.' These Acts established the Southern Electric Authority and define the powers and responsibilities of the Authority.

'The Northern Electric Authority of Queensland Act, 1963-1964.' This Act established the Northern Electric Authority. It also defines its powers and responsibilities.

'The Electrical Workers and Contractors Act, 1962–1974.' This Act provides for the certification of electrical workers and for the licensing of electrical contractors.

State Electricity Commission of Queensland

The Commission commenced to function in January 1938. The Commission is the statutory authority concerned, *inter alia*, with the administration of electricity supply legislation, the general control, organisation and efficient development of the electricity supply industry in Queensland, the forward planning of such development, the control of electricity charges, the administration of regulations and rules relating to safety, the raising of capital, the provision of engineering and consulting services, the promotion of the use of electricity, particularly in manufacturing and rural industries, and the fixing of standards. In addition, it is an authority to which consumers may appeal on matters in dispute between them and their electric authorities. The Commission is also empowered to own and operate generating stations and transmission lines and to sell electricity in bulk.

Organisation

Regional electrification, with centralised generation and main transmission, is the predominant feature of the organisation of the electricity supply industry in Queensland. The more populous eastern part of the State is served by three major networks.

The southern network embraces the areas of supply of the Southern Electric Authority, the Brisbane City Council, the Wide Bay-Burnett Regional Electricity Board, and the Dalby Town Council. Generation and main transmission in this area are the responsibility of the Southern Electric Authority, which sells energy in bulk to the other three Authorities. The Wide Bay-Burnett Board also operates its own base load power station at Howard. The Southern Electric Authority is also responsible for the distribution of electricity to a large area of South-East Queensland outside metropolitan Brisbane.

The central network which is interconnected with the southern network by a 275 kV transmission line is within the area of supply of the Capricornia Regional Electricity Board. The Board is responsible for the generation, main transmission and distribution of electricity.

The northern network covers the areas of supply of the Cairns, Townsville, and Mackay Regional Electricity Boards. Generation and main transmission are the responsibility of the Northern Electricity Authority which sells electricity in bulk for distribution by the three Regional Electricity Boards. In addition, the Cairns Regional Electricity Board operates small internal combustion generating stations at certain isolated centres in its area, and the Townsville Regional Electricity Board supplies the western area of its region by means of a distribution system based on an internal combustion station at Hughenden.

West of the three main networks the form of organisation which has been adopted is determined by the stage of electrical development which has been reached. Immediately west of the Capricornia region the Central Western Regional Electricity Board operates an interconnected system with generation centralised at internal combustion stations at Longreach and Barcaldine. Other smaller regions of electricity supply are centred on Roma and Mount Isa. In addition, parts of southern Queensland are supplied by the Tenterfield Municipal Council and the North West County Council of New South Wales, whilst the Balonne Shire Council purchases electricity in bulk from the Electricity Commission of New South Wales. In the remaining parts of Western Queensland there are a number of isolated electricity undertakings operated by Shire Councils.

It is proposed that the industry be reorganised by making the 22 existing electricity authorities into 8 new authorities. Draft legislation to give effect to this proposal is well advanced.

Electricity generation, transmission and distribution

Electricity generated in the State is based primarily on steam power stations using black coal, 90 per cent of the total production during 1974–75 being derived from this fuel. Hydro-electric stations, located mainly in North Queensland provided 9 per cent, and the balance of the production was provided from internal combustion and gas turbine stations. These gas turbine stations use oil as their energy source. All of the internal combustion diesel stations use oil as fuel but the power station at Roma also uses locally produced natural gas. Electricity generated by public electricity undertakings in Queensland during 1974–75 totalled 8,272 million kWh. A further 104 million units were purchased in bulk from other producers of electricity for re-distribution to consumers.

At 30 June 1975 the total generating capacity of Queensland public electricity undertakings was 2,073 MW comprising 1,789 MW of steam plant, 132 MW of hydro-electric plant, 37 MW of internal combustion plant and 115 MW gas turbine plant.

The southern electricity network is served by the following steam power stations: Bulimba 'A' (65 MW), Bulimba 'B' (180 MW), Tennyson 'A' (120 MW), Tennyson 'B' (120 MW), Swanbank 'A' (396 MW), Swanbank 'B' (480 MW) and Howard (37.5 MW) together with gas turbine stations—Swanbank 'C' (30 MW) and Middle Ridge (60 MW). The central network is served by power stations at Rockhampton (52.5 MW steam and 25 MW gas turbine) and at Callide (120 MW) steam). The northern electricity network is supplied by steam power stations at Collinsville (180 MW) and Townsville (37.5 MW) and hydro-electric stations at Kareeya (72 MW) and Barron Gorge (60 MW).

The electrical transmission and distribution systems within the State comprised over 91,721 circuit kilometres of electric lines at 30 June 1975. The main transmission voltages are 275 kV, 132 kV, 110 kV, 66 kV and in certain areas 33 kV and 22 kV. The electricity supply industry's extensive rural electrification program continued using the single wire earth return system.

At 30 June 1975 the total number of electricity consumers was 670,989 of whom 246,642 were in the Brisbane metropolitan area.

Future development

Major development of the State's generating capacity is concentrated on the construction of the power station at Gladstone (1,100 MW). The Gladstone power station will comprise four 275 MW generating sets, the first of which is expected to be commissioned early in 1976.

Construction of the second 275 kV line between Southern and Central Queensland is well advanced and it is expected that this reinforcing link will be in service in 1976. The 275 kV connection between Gladstone and the northern grid is programmed for completion in 1977.

A 34 MW gas turbine plant is to be installed at Mackay and site work has commenced.

Two 660 kW sets have been installed at Barcaldine with tenders being called for two further 1,615 kW sets. The 66 kV interconnection between Barcaldine and Longreach was completed in May 1975.

Two 4 MW generating sets are on order by the Roma Town Council to cater for the continuing load growth in the area.

South Australia

A general historical survey concerning the electricity supply industry in South Australia is given in Year Book No. 39, page 1186. The survey traces the development of the industry from its formation in South Australia in 1895 until the establishment of the South Australian Electricity Commission in 1943.

Electricity Trust of South Australia

In 1946 the assets of the Adelaide Electric Supply Co. Ltd were transferred to a newly formed public authority, the Electricity Trust of South Australia, which became responsible for unification and co-ordination of the major portion of the State's electricity supply and which took over the powers previously vested in the South Australian Electricity Commission. In addition to the powers specified in the Adelaide Electric Supply Company's Acts, 1897–1931, the Trust may supply electricity direct to consumers within a district or municipality with the approval of the local authority, and by agreement with other organisations which generate or supply electricity, arrange to inter-connect the mains of the Trust with those of other organisations, and give or receive supplies of electricity in bulk.

Capacity and production

Of the total installed capacity in South Australia at 30 June 1975, the Electricity Trust operated plant with a capacity of 1,185 MW, and is the most important authority supplying electricity in the State. There were approximately 495,000 ultimate consumers of electricity in the State, of whom 490,000 were supplied directly and approximately 5,000 indirectly (i.e. through bulk supply) by the Trust. Its major steam stations are Osborne (240 MW), Port Augusta Playford 'A' (90 MW) and Playford 'B' (240 MW), and Torrens Island (480 MW).

The Trust operates two smaller stations, the Mt Gambier Station has an installed capacity of 22 MW and Pt Lincoln 9 MW—both locations are connected with the Trust's interconnected system with 132 kV lines. In addition, the Trust operates a turbo-generator station at Dry Creek (104 MW).

The two main fuels used by the Trust are sub-bituminous coal from Leigh Creek for the Port Augusta, Playford power stations and natural gas from the Gidgealpa-Moomba field for the Torrens Island and Dry Creek stations.

Western Australia

For information on the early history of electricity supply in the metropolitan area, see Year Book No. 39, page 1189.

State Energy Commission of Western Australia

On 1 July 1975 the Government of Western Australia combined the State Electricity Commission and the Fuel and Power Commission to form a new organisation known as the State Energy Commission of Western Australia. The new Commission is specifically charged with the responsibility for ensuring the effective and efficient utilisation of this State's energy resources and for providing its people with economical and reliable supplies of electricity and gas.

The Commission operates coal-burning power stations at East Perth, South Fremantle, Bunbury and Muja and an oil and gas burning station at Kwinana. A small hydro-electric station is situated at Wellington Dam near Collie and at Geraldton there is a gas turbine generating plant. A uniform tariff electricity supply is provided from these stations through an interconnected grid system to the Metropolitan Area, the South-West and Great Southern Areas, including an area extending eastward to Kollyanobbing and northwards as far as Ajana beyond Northampton. The Commission also owns and operates diesel power stations at Port Hedland, Halls Creek, Roebourne, Kununurra, Esperance and Onslow.

Small electricity supply systems too remote to be connected to the grid system or supplied from the Commission owned diesel stations are still controlled by local government authorities and are being absorbed in a leasing arrangement whereby the local generating plant and distribution system is operated by the Commission under an arrangement known as the Country Town's Assistance Scheme. Under the scheme, the Commission undertakes to operate, maintain, replace or upgrade plant and supply equipment as necessary. At the present time there are twenty-six country towns supplied under the provisions of the Country Towns' Assistance Scheme.

Natural gas is reticulated in most areas of the Perth metropolitan region and in Pinjarra, whilst simulated natural gas (SNG) is reticulated in the Bunbury area and tempered liquified petroleum gas (TLP) in Albany.

Some details of the Commission's activities for the year ending June 1975 are: Number of electricity consumer accounts 317,069 and 62,284 gas consumer accounts; electricity generated 3,564 million kWh; gas sold 776,569,000 units; fuel used for electricity generation 1,709,000 tonnes of coal, 186,000 tonnes of fuel oil, and 26,389,000 litres of diese! fuel.

Sales for the year ending 30 June 1975, compared with those for the preceding year, show an increase of 6.57 per cent for electricity and 27.0 per cent for gas.

Tasmania

A considerable part of the water catchment in Tasmania is at high level, with a substantial natural storage available, and this has made it possible to produce energy at a lower cost than elsewhere in Australia and in most other countries. Another factor contributing to the low cost is that rainfall is distributed fairly evenly throughout the year with comparatively small yearly variations. Abundant and comparatively cheap supplies of electricity played an important role in attracting industry to Tasmania. However, in recent years Tasmania's advantage in selling electric power has been reduced. A cost differential favouring Tasmania still exists but it is no longer as marked. For information on hydro-electric development in Tasmania prior to the establishment of the Hydro-Electric Commission in 1930, see Year Book No. 39, pages 1192-3.

Hydro-Electric Commission

In 1929 the Government passed the *Hydro-Electric Commission Act* 1929, which established the Hydro-Electric Commission and vested in the Commission, with some minor exceptions, the right to use the waters of the State of Tasmania, and authorised it to develop and reticulate electric power for all purposes. In 1930 this corporate body took over the State hydro-electric undertaking and the business of the Hydro-Electric Department.

Output and capacity of hydro-electric system

The following table outlines the development of the Tasmanian generating system.

TASMANIA

TASMANIAN POWER GENERATING SYSTEM

| Station | | | | Year of commission | Head (metres) | Generator capacity (MW)(a) | Assessed annual capacity(b) (million kWh) |
|-----------------|----|------|-----|--------------------|------------------|----------------------------------|---|
| | | | co | MPLETED S | TATIONS | | |
| Waddamana 'B | , | | | 1949 | 344 | 48.0 | (c) |
| Tarraleah . | | | | 1951 | 299 | 90.0 | 583 |
| Butlers Gorge | | | | 1951 | 56 | 12.2 | 68 |
| Trevallyn . | | | | 1955 | 126 | 80.0 | 541 |
| Tungatinah | | | | 1956 | 306 | 125.0 | 552 |
| Lake Echo | | | | 1956 | 173 | 32.4 | 75 |
| Wayatinah | | | | 1957 | 62 | 38.2 | 265 |
| Liapootah. | | | | 1960 | 110 | 83.7 | 439 |
| Catagunya | | | | 1962 | 43 | 48.0 | 251 |
| Poatina . | | | | 1965 | 829 | 250.0 | 1,275 |
| Tods Corner | | | | 1966 | 41 | 1.6 | 13 |
| Meadowbank | | | | 1967 | 29 | 40.0 | 200 |
| Cluny . | | | | 1967 | 16 | 17.0 | 89 |
| Repulse . | | | | 1968 | 27 | 28.0 | 154 |
| Rowallan . | | | | 1968 | 49 | 10.4 | 37 |
| Lemonthyme | | | | 1969 | 159 | 51.0 | 284 |
| Devils Gate | | | | 1969 | 69 | 60.0 | 298 |
| Wilmot . | | | | 1971 | 251 | 30.6 | 127 |
| Bell Bay (Stage | 1) | | | 1971 | (d) | 120.0 | 788 |
| Cethana . | | | | 1971 | 99 | 85.0 | 407 |
| Paloona . | | | | 1972 | 31 | 28.0 | 131 |
| Fisher . | | | | 1973 | 649 | 43.2 | 245 |
| Bell Bay (Stage | 2) | • | | 1974 | (<i>d</i>) | 120.0 | 788 |
| Total | | ٠ | | • • | •• | 1,442.4 | 7,610 |
| | S | TATI | ONS | UNDER CO | ONSTRUCT | TION | |
| Gordon (Stage | 1) | | | 1977 | 186 | 288.0 | 1,466 |
| Poatina (e) | | | | 1977 | 829 | 50.0 | |
| Mackintosh | | | | 1981 | 68 | 72.0 | |
| Rosebery . | | | | 1983 | 63 | 76.5 | |
| Pieman . | • | | • | 1985 | 93 | 270.0 | •• |
| Total | | | | | | 756.5 | |

⁽a) Emergency gas turbine generating capacity of 21,000 kW at Bell Bay not included. (b) Assessed annual capacity is based on simulated operation of the whole system for hydro-electric plant. The figures for thermal plant correspond to a capacity factor of 75 per cent. (c) Reserve plant only. (d) Thermal station. (e) Additional generator to be installed in the existing station.

Although Tasmania has only three percent of Australia's population, it produces ten percent of Australia's total electricity. In 1974-75, electricity generation in Tasmania totalled 5,949 million kilowatt hours.

New capacity

The Gordon River Power Development, Stage 1, to be completed in 1977, will create the largest water storage in Australia. The Lake Pedder storage was created by a combination of two dams and a levee on the Serpentine and Huon Rivers while Lake Gordon resulted from a single dam on the Gordon River. Water will be carried from the Gordon storage by a vertical shaft and short horizontal tunnel to a power station 186 metres underground. The station is designed to be operated by remote control from Hobart, 160 kilometres away, and to have an initial capacity of 288 MW.

A hydro-electric development on the Pieman, Murchison and Mackintosh Rivers in western Tasmania was approved by Parliament in 1971. Total installed capacity of the scheme will be approximately 420 MW. Preliminary construction works are now in progress and operation of the first stage of the development is expected to commence in 1981, with the completion of the whole development scheduled for about 1985.

The Commission is conducting extensive surveys and investigation of other schemes with a view to further construction after the completion of the present program. It is estimated that the potential which can be developed economically should ultimately harness 3,000 MW to the system.

Australian Territories

Australian Capital Territory

The supply authority is the A.C.T. Electricity Authority, which took over the functions of the Canberra Electric Supply Branch, Department of the Interior, on 1 July 1963. Supply was first made available in Canberra during 1915 and was met from local steam plant. Connection to the New South Wales interconnected system was effected in 1929, and all requirements are now taken from this system. Locally owned plant consists of 4 MW of diesel alternators which are retained as a standby for essential supplies. The total number of ultimate consumers at 30 June 1975 was 62,632. During the year 1974–75 the bulk electricity purchased was 924,077,000 kWh and the system maximum demand was 235.3 MW.

Northern Territory

Electricity is supplied in the main population centres by the Department of the Northern Territory through the Electricity Supply Division of the Department of Construction.

An oil fired steam power station is operated at Darwin with 66 kV transmission. Alice Springs, Pine Creek, Katherine, Tennant Creek, Elliott and Daly Waters are supplied by diesel power stations.

The Stokes Hill Power Station has an installed capacity of 70.5 MW with an additional 23.5 MW set now being installed and due for commissioning in 1976. A 10 MW gas turbine was commissioned in 1974. A contract has been let for the last stage of development of the Stokes Hill Power Station, comprising two 23.5 MW sets, which, when completed in late 1978, will give the station a capacity slightly in excess of 141 MW. Preliminary planning for a second power station in Darwin is proceeding.

Cyclone Tracy devastated Darwin on Christmas Day 1974, resulting in most of the transmission and distribution systems being destroyed. Electricity supply authorities from all parts of Australia assisted in rebuilding the electricity supply system. Connections were made to temporary dwellings but no charges were made for electricity up to May 1975.

A new diesel station was commissioned in Alice Springs in 1973 and together with the old station has an installed capacity of 26.6 MW. Tenders are expected to be called by the end of 1976 for a fourth 5.6 MW diesel alternator set.

Katherine is supplied by a 7 MW diesel station. A 2.03 MW diesel alternator set has been transferred from Alice Springs and is due for completion in 1976.

A new 4.7 MW diesel power station in Tennant Creek has been commissioned to supply the town after the agreement with Peko N.L. for the purchase of bulk electricity expires. It is planned to instal a fourth 1.56 MW diesel alternator during 1977–78.

In February 1975 a new 0.4 MW diesel power station and reticulation system was commissioned to supply a number of railway centres.

Mataranka Aboriginal communities generate their own electricity as do Nabalco which operate a 120 MW oil fired steam power station and a large diesel station at Gove.

Statistical Summary

For a summary of operations of electricity establishments in 1969-70 and 1971-72, see Chapter 21, Manufacturing Industry, pages 736-7.

CHAPTER 28

SCIENCE AND TECHNOLOGY

Further and more detailed information on topics presented in this chapter may be found in the annual reports of the organisations mentioned, particularly the Department of Science, the CSIRO and its divisions, the Australian Atomic Energy Commission, and the Department of Defence. Statistical information for the years 1968-69 and 1973-74 may be found in the reports published by the Department of Science on Project SCORE (see page 989). Also relevant are reports published by the then Office of Secondary Industry of the Department of Trade and Industry (Survey of Industry Research and Development in Australia 1968-69) and by the then Department of Manufacturing Industry (Bulletin No. 11, November 1974 R & D in Manufacturing Industry 1971-72).

In this chapter references will be found to other chapters of the Year Book which deal in greater detail with particular fields of research and development activity.

Overview

Prior to the 1914-18 war, Australian science was based largely on the individual achievements of a few outstanding scientists.

During and after that war, governments in various parts of the world took initiatives aimed at encouraging scientific research and its application to economic growth and national development. Australia was no exception, but the research was concentrated mainly in the government sector and was aimed primarily at agriculture; the universities and industry were little involved.

With the approach of the 1939-45 world war, however, moves were made to extend scientific support for secondary industry. In the CSIR (Council for Scientific and Industrial Research), Divisions created in the period 1937-40 were to play an important part in the rapid development of Australian industry that occurred under the stimulus of war-time needs.

When peace came, expansion of scientific research in general and industrial research in particular continued. This expansion extended beyond government into the universities and industry.

Though agricultural research, even today, absorbs a significant proportion of Australia's research effort, industrial, medical and defence research are now of major importance also. The volume of research in the social sciences remains small, though in Australia as elsewhere in recent years, there has been increasing support for the view that adequate weight must be given in governmental policy-making to the social aspects of national growth.

In 1973-74, the most recent year for which data are available, total expenditure on research and development (R & D) in both the natural and social sciences was estimated at \$651 million, approximately equivalent to 1.3 per cent of the Gross Domestic Product (\$50,557 million) in that year. The data are summarised in the table on page 989.

In 1973-74, governments in Australia provided approximately 60 per cent of the funds devoted to R & D and undertook in their own agencies approximately 42 per cent (in terms of expenditure) of the overall national R & D effort.

Whilst these data serve to illustrate the dominant position occupied by governments in Australian scientific and technological research and development activities, they do not provide a complete picture since comprehensive information is not available on resources devoted to other scientific and technological activities in Australia.

Advice and co-ordination

In recent years Governments have shown increased concern with the adequacy of channels for advice on science and technology. Advisory bodies have been established, charged with making recommendations concerning a broad range of scientific and technological activities. At the national level, the Commonwealth Government appointed an Advisory Committee on Science and Technology (ACST) in 1972. This Committee was disbanded in 1973 and an Interim Australian Science and Technology Council (ASTEC) established in May 1975. At the State level, the New South Wales Government appointed a New South Wales Science and Technology Council in February 1976.

Prior to the establishment of advisory bodies with a wider role, a number of official advisory bodies had been established to deal with sectoral interests. Such bodies include: the Australian Research Grants Committee (ARGC), the Universities Commission, the CSIRO Advisory Council

and State Committees, the Defence Science Board, the Defence Research, Development, Trials and Evaluation Review Committee, and the National Health and Medical Research Council (NH & MRC).

ASTEC'S establishment followed an intensive period of discussion and review concerning arrangements for the provision to the Government of adequate advice on policies for science and technology in Australia. Following the dissolution of the ACST in January 1973, a Green Paper Towards an Australian Science Council was issued by the then Minister for Science in March 1974, which invited public discussion and comment on issues related to the establishment of a science council. Further stimulus was provided by the review of Australian science and technology undertaken by the OECD during 1974, which resulted in the issue in September of the OECD Examiners' Report on Science and Technology in Australia. This report delineated some of the structural and policy problems facing the organisation, management and further development of science and technology in Australia, as perceived by the examining team, and described approaches which had been taken in other countries in an attempt to meet similar problems. The Examiners' Report was widely discussed within Australia and was the subject of a meeting at the OECD in October 1974.

These various deliberations culminated in the issue by the Government in January 1975 of a White Paper Science and Technology in the Service of Society—The Framework for Australian Government Planning. Features of this framework included a Ministerial Committee on Science and Technology, the Australian Science and Technology Council (ASTEC), a Parliamentary Science and Technology Forum, and the Department of Science.

The role of ASTEC was envisaged in the White Paper as including broad functions of reporting and making recommendations to the Government. Following the election of a new Government in December 1975 the interim ASTEC was re-constituted and requested to prepare by the end of 1976 a report which would assist the Government in its decisions on the establishment of a permanent science and technology council. The policy of the Government envisages that the Council will be the major independent advisor to government on such matters as:

the development and application of science and technology to national needs and objectives; new areas of science and technology which are of importance to Australia, including fields of industrially and commercially oriented research and development;

the balance, adequacy and effectiveness of national efforts in various fields of science and technology, including defence science, and means for improving efficiency in the use of resources:

the relative importance of efforts in those fields of science and technology which may contribute to national economic and social development and welfare and to the advancement of scientific knowledge; and,

the effective development and utilisation of scientific and technological manpower.

Successive Governments have seen the Department of Science as having a complementary role in relation to an advisory council on science and technology. As a government department it has ready access to information available to government concerning civil science and technology, and is able to provide a scientific and technological perspective at the interdepartmental level. The Department's role includes the fostering of closer working relationships and consultation among government agencies, tertiary institutions, scientific associations, the private sector and the community. The Department's administrative functions in relation to certain scientific services and research activities (such as the Bureau of Meteorology, the Commonwealth Government Analytical Laboratories, and the Antarctic Division) help to ensure that its policy advice is tempered with an awareness of practical problems in science and technology.

Advice to government on scientific and technological issues comes also from various learned and professional bodies. Such counsel may be offered on the initiative of the organisation itself or in response to an official request. For example, the Australian Academy of Science maintains a number of sectional and standing committees which specialise in selected, broad fields of science; ad hoc advisory committees are appointed by the Academy from time to time to examine and report on specific matters. In addition, the Academy has maintained since 1967 a Science and Industry Forum which brings together leading scientists and industrialists to discuss topics of national significance; a complementary Science and Society Forum was inaugurated in 1973.

The most broadly based of the learned and professional bodies is the Australian and New Zealand Association for the Advancement of Science (ANZAAS). The Association has established a Science Policy Commission to give increased attention to policy issues. Other sources of advice to government within their various spheres of interest include the Academy of the Social Sciences in Australia, the Australian Academy of Technological Sciences, the Institution of Engineers, Australia (IEA), the Royal Australian Chemical Institute (RACI), and the Federation of Australian University Staff Associations (FAUSA). In recent years, matters of scientific and technological policy have received much discussion among such learned and professional organisations as well as in academic circles.

Intergovernmental co-ordination of research and technical services between the Commonwealth and the States is effected through bodies such as Ministerial councils. Among these are the Australian Agricultural Council, the Australian Minerals and Energy Council, the Australian Waters Resources Council, the Australian Transport Advisory Council, and the Australian Environment Council. The Councils, which are assisted by standing committees of officials, do not undertake research or the provision of services directly but in some instances provide grants or arrange contracts in support of research. The activities of these bodies are aimed principally at the achievement of economic, social or environmental goals.

Expenditure and manpower

Project SCORE

As mentioned above, comprehensive data on the resources devoted to scientific and technological activities in Australia are not available. Therefore, though some details of Australian expenditure on research and development activities are given below, it should be noted that these data do not include many important scientifically or technologically based programs. Programs not covered by Project SCORE (Survey and Comparisons of Research Expenditure), some of which involve large expenditures, are those which have no research and development component; such programs include those aimed at providing scientific or technological services.

Coverage and Methodology. The first comprehensive survey of expenditure on research and development (R & D) was carried out for the 1968-69 financial year. This survey, known as Project SCORE, covered R & D expenditure and manpower in the natural and social sciences in all sectors of the Australian economy. The Project was carried out principally by means of questionnaires and, in order to provide direct comparison with other OECD countries, followed (with some exceptions) guidelines laid down by the OECD. In addition to a summary report dealing with the overall national situation, separate Project SCORE reports cover the following sectors: Commonwealth Government, Business enterprise, State Government, Higher education, and Private non-profit. A summary of the results for 1968-69 is given in Year Book No. 60, pp. 995-1005.

The results of a second survey, for the 1973-74 financial year (1974 calendar year for higher education bodies), were in press at the time of writing. The results are being published in two volumes: Volume 1 contains the reports for the Commonwealth Government, State Government, and Private non-profit Sectors, while Volume 2 presents an all-sector summary together with the reports for the Business enterprise and Higher education sectors.

For the purposes of the survey, research was defined as original investigation directed towards increasing the general body of knowledge about, or understanding of, the subject studied. Within this category, basic research was taken to be original investigation of which the primary aim was more complete knowledge or understanding of the subject under study, while applied research was taken to be original investigation of which the primary aim was the solution of a recognised practical problem. Work was defined as experimental development where it involved the systematic use or adaptation of research results directed towards the production of new or improved products, processes, systems or methods. The physical, chemical, biological, earth, engineering and applied, agricultural and medical sciences were included in the natural sciences, which together with the social sciences, were covered in the 1968-69 and the 1973-74 surveys. The 1973-74 survey also covered R & D in the humanities, which were excluded in 1968-69.

Because of changes in definition and interpretation between the two surveys, the results of the 1973-74 survey will not be directly comparable with those previously published for 1968-69. However, the latter results are to be re-processed and revised figures published for purposes of comparison. The third survey is planned for the 1976-77 financial year.

All Sectors. Gross expenditure on R & D performed in Australia (GERD) in 1973-74 was \$651 million, of which \$594 million (91 per cent) was spent in the natural sciences, engineering and technology; and \$56 million (9 per cent) was spent on research in the social sciences and humanities. Expenditure and manpower according to sector of performance were as follows.

| Sector of performance | | | Expenditure | ? | Manpower | | |
|-----------------------|---|------|-------------|----------|-----------|----------|--|
| | | | \$ million | per cent | f.t.e.(a) | per cent | |
| Business enterprise | | | 228 | 35 | 14,710 | 28 | |
| Commonwealth Go | | ment | 202 | 31 | 14,516 | 27 | |
| Higher education | | | 142 | 22 | 17,111 | 32 | |
| State Government | - | | 73 | 11 | 6,382 | 12 | |
| Private non-profit | | | 6 | 1 | 578 | 1 | |
| | • | - | 651 | 100 | 53,296 | 100 | |

The following tables contain figures for expenditure on R & D in 1973-74 according to source and sector of performance and for both expenditure and manpower according to major objectives

INTRAMURAL EXPENDITURE ON R&D IN AUSTRALIA IN 1973-74 BY SECTOR OF PERFORMANCE AND SECTOR OF SOURCE OF FUNDS (\$'000)

| | Sector of se | ource | | | | | |
|-------------------------|--------------------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|----------|---------|
| Sector of performance | Common- wealth Govern- ment | State Govern- ment | Private non- profit | Business enter- prise | Higher edu- cation | Overseas | Total |
| Commonwealth Government | . 179,485 | 242 | 231 | 12,370 | 4 | 9,228 | 201,560 |
| State Government | . 8,819 | 63,013 | 167 | 1,335 | 6 | 154 | 73,494 |
| Private non-profit | 1.866 | 440 | 2.685 | 371 | 24 | 547 | 5,933 |
| Business enterprise | . (a)20,609 | (b) | 2,002 | 206,459 | -: | 968 | 228,036 |
| Higher education | . 133,926 | 1,310 | 4,189 | 1,632 | •• | 607 | 141,664 |
| Total | . 344,705 | 65,006 | 7,272 | 222,166 | 34 | 11,504 | 650,687 |

⁽a) Includes a small State Government contribution.

INTRAMURAL EXPENDITURE AND MANPOWER DEVOTED TO R&D IN AUSTRALIA IN 1973-74, BY OBJECTIVE SUB-GROUP

| | Natural | Sciences | | | Social Sciences and Humanities | | | | |
|---------------------------------------|---------|-------------|--------|----------|--------------------------------|-------------|--------|----------|--|
| | Expendi | Expenditure | | Manpower | | Expenditure | | Manpower | |
| Objective sub-group | \$'000 | per cent | fte(b) | per cent | \$,000 | per cent | fte(b) | per cent | |
| Business Enterprise(a) Other Sectors— | 228,036 | 38.4 | 14,710 | 31.6 | | | | | |
| Defence | 55.962 | 9.4 | 5,093 | 11.0 | 525 | 0.9 | 43 | 0.6 | |
| Primary industry | 83,609 | 14.1 | 6,737 | 14.5 | 2.858 | 5.1 | 233 | 3.4 | |
| Secondary industry | 31,273 | 5.3 | 2,279 | 4.9 | 221 | 0.4 | 18 | Ŏ. 3 | |
| Economic services | 34,423 | 5.8 | 2,065 | 4.4 | 963 | ĭ.7 | 65 | 1.0 | |
| Other economic development . | 34,423 | | • | | 3,246 | 5.8 | 220 | 3.2 | |
| Health | 11,501 | 1.9 | 1.063 | 2.3 | 125 | 0.2 | 13 | 0.2 | |
| Environment | 13,145 | 2.2 | 920 | 2.0 | 123 | 0.2 | 1.3 | 0.2 | |
| Public welfare | 334 | 0.1 | 26 | 0.1 | 2.966 | 5.3 | 279 | 4.1 | |
| | | | 450 | | | | | 2.1 | |
| Community services | 6,970 | 1.2 | 430 | 1.0 | 1,699 | 3.0 | 141 | | |
| Other community welfare | | | | ': | 1,698 | 3.0 | 001 | 1.5 | |
| Advancement of knowledge(c). | 129,157 | 21.7 | 13,158 | 28.3 | 41,976 | 74.6 | 5,684 | 83.€ | |
| Total | 594,410 | 100.0 | 46,500 | 100.0 | 56,277 | 100.0 | 6,796 | 100.0 | |

⁽a) Business enterprise respondents were not asked to differentiate between natural and social sciences—in this table all Business enterprise R & D has been assigned to the natural sciences. Business enterprises R & D cannot be assigned unambiguously to objective sub-groups because the survey classification was by industry rather than by objective (b) Full-time equivalents. (c) All R & D in the Higher educations sector was assigned to Advancement of knowledge.

When the published figures are adjusted to allow for the differences between the 1968-69 and 1973-74 surveys it can be seen that there was an increase in R & D expenditure in all sectors over the five year period. Overall, the ratio of R & D expenditure to the GDP was maintained. [(GERD/GDP for 1973-74)/(GERD/GDP for 1968-69) = 1.05].

A comprehensive survey of manpower in Australia was made in conjunction with the 1971 national census. This revealed that scientific and technical personnel, comprising the occupational classifications of architects engineers and surveyors, chemists, physicists, geologists and other physical scientists; biologists, veterinarians, agronomists and related scientists, draftsmen and technicians, accounted for 1.7 per cent of the workforce. Furthermore, 0.8 per cent of the Australian population held tertiary qualifications in the physical sciences and technology and 2.5 per cent held technical qualifications. The distribution of educational attainment of the population in 1971, over major fields of scientific and technical personnel was as follows. Medical, dental, health and paramedical personnel have been excluded because of inability to separate between practitioners and research staff. This group comprised 52,859 persons; 26,605 of these had at least first degrees.

⁽b) See footnote (a).

| Field | | Persons holding degrees or equivalent | Persons with tertiary qualifications (excluding degrees) | Persons at technical level |
|----------------------------------|---|--|--|----------------------------------|
| Natural sciences | | 25,593 | 5,302 | 4,465 |
| Engineering, building technology | | 23,152 | 33,866 | 93,092 |
| Architecture | | 2,992 | 3,687 | · |
| Agriculture and forestry | • | 7,281 | 2,151 | 20,369 |
| Total | | 59,018 | 45,006 | 117,926 |

Details of the distribution of expenditure in 1973-74 between basic research, applied research and experimental development are as follows.

DISTRIBUTION OF R&D EXPENDITURE BY TYPE OF ACTIVITY AND SECTOR OF PERFORMANCE (Per cent)

| | Business enterprise sector | Common- wealth government sector | State government sector | Higher education sector | Private non-profit sector | Total |
|----------------|----------------------------------|---|-------------------------------|-------------------------------|---------------------------------|----------------|
| Basic research | . 10 . 22 . 69 | 24 52 24 | 8 68 25 | 73 23 4 | 57 37 6 | 28 37 35 |
| Total | . 100 | 100 | 100 | 100 | 100 | 100 |

Commonwealth Government Sector. Within the Commonwealth Government sector, total intramural expenditure on R & D was \$202 million, representing 0.40 per cent of Australia's 1973-74 Gross Domestic Product (\$50,557 million) and 1.6 per cent of Commonwealth Government outlays for 1973-74 (\$12,499 million). Manpower involved in this R & D effort was equivalent to 14,516 man-years, representing 0.25 per cent of the effort of the Australian workforce (5,867,700). Of this effort about 5,000 man-years were attributed to workers who held professional qualifications. Distribution of this expenditure and manpower effort by objectives and field of science is shown in Plates 63 and 64, pages 992 and 993. Other major features were:

(a) Socio-economic objective groups accounted for the intramural R & D expenditure of the Commonwealth Government as follows:

| | | pe | er cent |
|--------------------------|--|----|---------|
| Economic development . | | | 47 |
| National security | | | 28 |
| Advancement of knowledge | | | 14 |
| Community welfare | | | 11 |

(b) Expenditure in the Economic development group was distributed between the following sub-groups:

| | | | P | er cent |
|--------------------|--|---|---|---------|
| Primary industry | | • | | 19 |
| Secondary industry | | | | 13 |
| Economic services | | | | 13 |
| Other | | | | 2 |

- (c) Two respondents, CSIRO and the then Department of Supply, accounted for 68 per cent of the total intramural expenditure.
- (d) Intramural expenditure on R & D in the natural sciences and in the social sciences and humanities was distributed as follows:

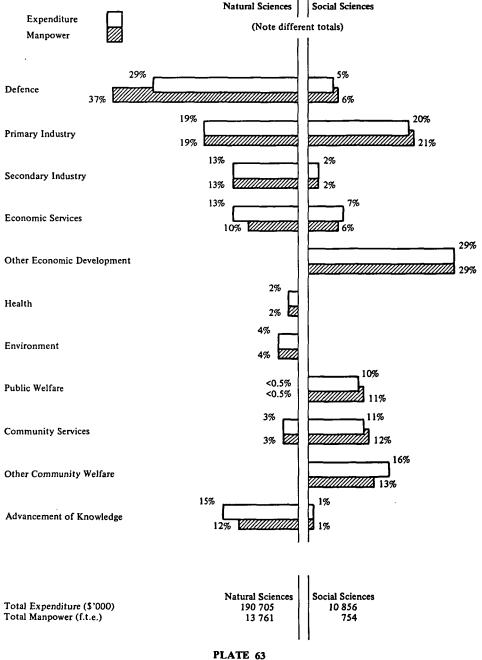
| | | | p | er cent |
|------------------|--|--|---|---------|
| Natural sciences | | | | 95 |
| Social sciences | | | | 5 |

(No expenditure was reported for R & D in the humanities.)

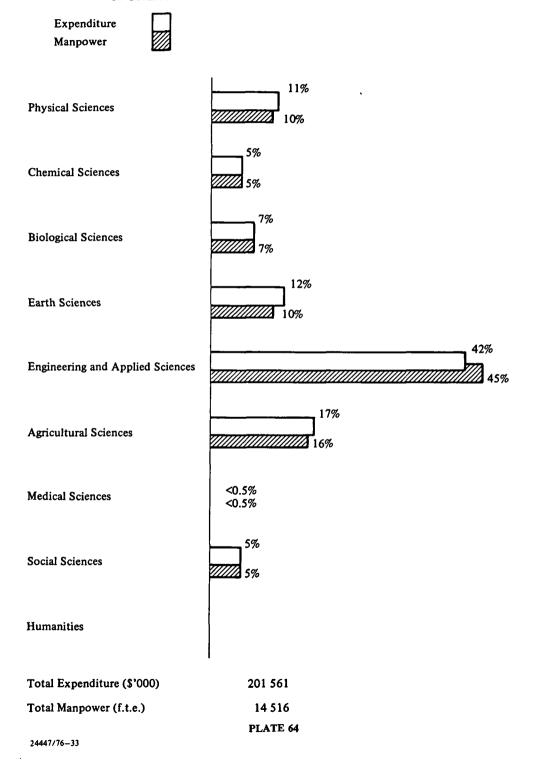
42 per cent of the total effort was in Engineering and Applied Sciences, the dominant major field of science in the natural sciences.

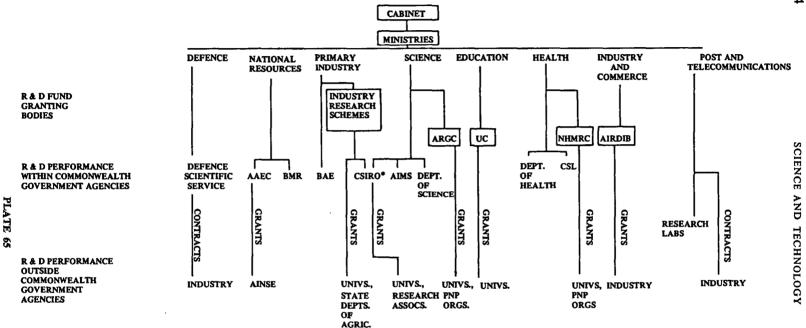
A diagrammatic representation of the principal ways in which Commonwealth Government support is channelled into R & D is shown in Plate 65, page 994.

DISTRIBUTIONS OF EXPENDITURE AND MANPOWER IN THE COMMONWEALTH GOVERNMENT SECTOR BY OBJECTIVE SUB-GROUP



DISTRIBUTIONS OF EXPENDITURE AND MANPOWER IN THE COMMONWEALTH GOVERNMENT SECTOR BY MAJOR FIELD OF SCIENCE





*CSIRO is located within Ministry of Science

| ABBREVIATIONS USED: | AAEC | Australian Atomic Energy Commission | UC | Universities Commission |
|---------------------|--------|--|---------|--|
| | AIMS | Australian Institute of Marine Science | BMR | Bureau of Mineral Resources |
| | AINSE | Australian Institute of Nuclear | BAE | Bureau of Agricultural Economics |
| | | Science and Engineering | CSIRO | Commonwealth Scientific and Industrial |
| | AIRDIB | Australian Industrial Research & | | Research Organisation |
| | | Development Incentives Board | CSL | Commonwealth Serum Laboratories |
| | ARGC | Australian Research Grants | NHMRC | National Health and Medical Research |
| | | Committee | | Council |
| | | | PNP One | L Private Non-Profit Organisations |

State Government Sector. Within the State Government sector the overall intramural expenditure on R & D was \$73 million, representing 0.15 per cent of Australia's 1973-74 Gross Domestic Product and 1.0 per cent of State Government outlays (\$7,308 million). Manpower involved in this R & D effort was 6,382 man-years, representing 0.11 per cent of the effort of the Australian workforce. Of this effort, about 2,700 man-years were attributed to workers holding professional qualifications. Distribution of this expenditure and manpower effort by objectives and field of science is shown in Plates 64 and 65, pages 996 and 997. Other major features were:

Within socio-economic objectives, Economic development accounted for 84 per cent of intramural R & D expenditure. The remaining expenditure was distributed between Community welfare (14 per cent) and Advancement of knowledge (2 per cent). Expenditure in the Economic Development Group was distributed between sub-groups as follows:

| | | | P | er cent |
|--------------------|---|--|---|---------|
| Primary industry | | | | 64 |
| Economic services | | | | 12 |
| Secondary industry | _ | | | 8 |

Expenditure in the Primary Industry Sub-Group was distributed between the objectives:

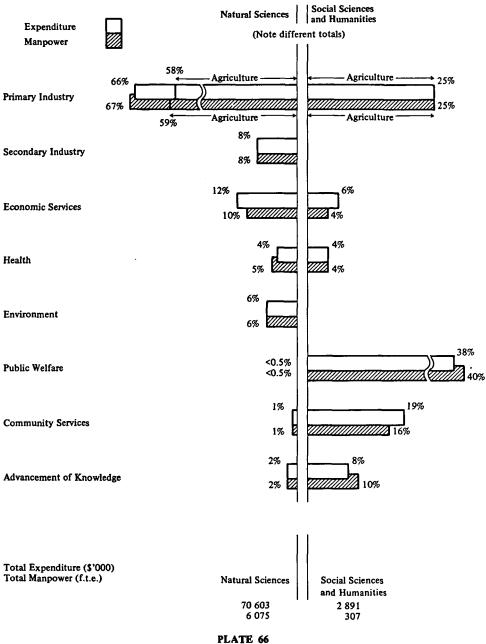
| | | | pe | er cent |
|-------------|--|--|----|---------|
| Agriculture | | | | 56 |
| Forestry. | | | | 5 |
| Fisheries . | | | | 3 |

In every State, the Department of Agriculture was by far the largest performer of R & D. Intramural expenditure on R & D in the natural sciences and in the social sciences and humanities was distributed as follows:

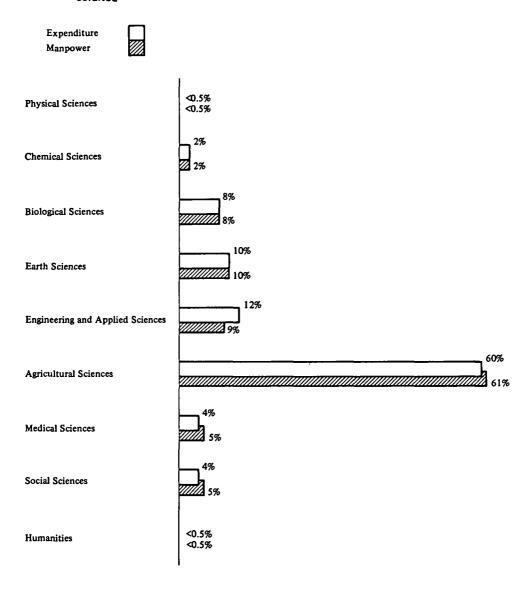
| • | | | | P | er ceni |
|---------------------|-----|----------|--|---|---------|
| Natural sciences | | | | | 96 |
| Social sciences and | hun | nanities | | | 4 |

60 per cent of the total effort was in Agricultural sciences, the major field of science in the natural sciences.

DISTRIBUTIONS OF EXPENDITURE AND MANPOWER IN THE STATE GOVERMENT SECTOR BY OBJECTIVE SUB-GROUP



DISTRIBUTIONS OF EXPENDITURE AND MANPOWER IN THE STATE GOVERNMENT SECTOR BY MAJOR FIELD OF SCIENCE



Total Expenditure (\$'000) 73 494

Total Manpower (f.t.e.) 6 382

PLATE 67

Private non-profit sector. In this sector the intramural expenditure on R & D of \$5.9 million represented only 0.01 per cent of Australia's 1973-74 Gross Domestic Product. The manpower involved in this effort was 578 man-years of which about 310 man-years were attributed to workers who held professional qualifications. Within socio-economic objectives, the Community welfare group accounted for 98 per cent of R & D expenditure. Within this sector almost 75 per cent of R & D was performed by ten medical research institutes.

Higher education sector. The gross intramural expenditure on R & D in this sector was \$142 million, consisting of \$61 million directly spent on research in the universities, together with an estimated value of \$80 million for R & D performed in combined teaching and research activities. Colleges of Advanced Education accounted for the remaining \$1 million. The gross intramural expenditure of \$142 million represented 0.28 per cent of Australia's 1973-74 GDP. The manpower involved in this effort was 17,111 man-years representing 0.29 per cent of the total effort of the Australian workforce.

An analysis of expenditure and manpower effort according to field of science is shown in the following table.

HIGHER EDUCATION SECTOR

| | | | | | Expenditu | re | Manpowei | • |
|---------------------|-----|------|-----|--|-----------|----------|-----------|----------|
| | | | | | \$'000 | per cent | f.t.e.(a) | per cent |
| Physical sciences | | | | | 19,597 | 14 | 2,010 | 12 |
| Chemical sciences | | | | | 11,187 | 8 | 1,391 | 8 |
| Biological sciences | | | | | 23,397 | 17 | 2,639 | 15 |
| Earth sciences | | | | | 6,099 | 4 | 694 | 4 |
| Engineering . | | | | | 14,836 | 10 | 1,918 | 11 |
| Medical sciences | | | | | 14,887 | 11 | 1,497 | 9 |
| Agricultural | | | | | 10,023 | 7 | 1,313 | 8 |
| Social science and | hum | anit | ies | | 41,638 | 29 | 5,648 | 33 |
| Total | | | | | 141,664 | 100 | 17,111 | 100 |

(a) Full-time equivalent.

Business enterprise sector. The gross intramural expenditure on R & D in the business enterprise sector was \$228 million, representing 0.45 per cent of Australia's 1973-74 GDP. The manpower involved in this effort was 14,710 man-years, representing 0.25 per cent of the total effort of the Australian workforce. Figures for expenditure and manpower effort according to industry are shown in the following table.

INTRAMURAL EXPENDITURE AND MANPOWER DEVOTED TO R & D IN AUSTRALIA IN 1973-74 BUSINESS ENTERPRISE SECTOR

| | | | Expenditu | re | Manpowe | er |
|------------------------------|---|--|-----------|----------|---------|----------|
| Industry | | | \$'000 | per cent | f.t.e. | per cent |
| Manufacturing— | | | | | | |
| Food, beverages and tobacc | 0 | | 9,901 | 4.3 | 800 | 5.4 |
| Textiles, clothing, footwear | | | 3,877 | 1.7 | 270 | 1.8 |
| Paper and printing . | | | 2,420 | 1.1 | 170 | 1.2 |
| Chemicals | | | 19,525 | 8.6 | 1,740 | 11.8 |
| Pharmaceuticals | | | 8,138 | 3.6 | 240 | 1.6 |
| Basic metal products | | | 14,621 | 6.4 | 990 | 6.7 |
| Transport equipment | | | 53,044 | 23.3 | 2,530 | 17.2 |
| Fabricated metal products . | , | | 55,605 | 24.4 | 4,800 | 32.6 |
| Other manufacturing. | • | | 15,610 | 6.8 | 960 | 6.5 |
| Total manufacturing | | | 182,741 | 80.1 | 12,500 | 85.0 |
| Other industries . | | | 45,295 | 19.9 | 2,210 | 15.0 |
| Total all industries | | | 228,036 | 100.0 | 14,710 | 100.0 |

Resources and services

Although power to regulate the development and utilisation of Australia's natural resources rests largely with the States, the Commonwealth Government, in part because of its jurisdiction in the control of Australia's overseas trade, also plays an important role. Extensive machinery exists for consultation and collaboration between the Commonwealth and State governments in relation to the development and management of natural resources.

Several important resources and services are dealt with elsewhere in this Year Book and are thus not included in this chapter. These include Transport (Chapter 12), Communications (Chapter 12), Health (Chapter 14), Agriculture (Chapter 22), Water (Chapter 23), Forestry (Chapter 24), Fisheries (Chapter 25) and Minerals and Energy (Chapter 26, 27).

Soil resources

Since 1938 all State Governments, except Tasmania, have enacted legislation relating to the mitigation of erosion and the conservation of soil resources. The States of New South Wales and Victoria have set up organisations to deal specifically with the problem of soil conservation whilst, in other States, departments of agriculture discharge that function.

A Standing Committee on Soil Conservation was established in 1946. It comprises the heads of soil conservation bodies in the States and representatives of relevant Commonwealth agencies. The Committee co-ordinates activities of interest to its member bodies such as the survey of erosion throughout Australia which was carried out in the late 1960s, and the development of co-operative arrangements for in-service training of technical personnel.

Fauna and flora resources

Responsibility for the conservation and management of fauna and flora resources rests, in the main, with the State Governments. The Commonwealth, however, has responsibility for such resources in its own Territories.

During the last century, as each State became established, museums and botanical gardens containing herbaria were set up. Studies of fauna and flora were carried out by these bodies and by the universities. Since the establishment of CSIRO, various divisions of the Organization have also carried out work on fauna and flora but an important part of total Australian research into biological resources continues to be undertaken in the museums and herbaria of the State Governments.

In 1975, the Commonwealth Government established a National Parks and Wildlife Commission and Service whose functions include care and management of national parks and wildlife in Australia and its Territories, conduct of ecological studies to determine additional areas which should be reserved as national parks and nature reserves, and survey and assessment of wildlife populations with particular reference to endangered species.

The Commonwealth has also made funds available, through the Australian Biological Resources Study Interim Council, to stimulate taxonomic and ecological studies of Australian fauna and flora resources. Funds were also provided towards the establishment of biological resources data centres which are to enable the storage and retrieval of biological data on a national basis. Planning of longer term national botanical and zoological studies has been commenced.

Environmental protection

Responsibility for most aspects of environmental protection rests with the State Governments, and all of these have enacted legislation to regulate those operations of governmental and private enterprises that may have a deleterious effect on the physical environment.

The Commonwealth Government has responsibility for environmental protection in its own Territories, in respect to the operations of its own agencies within the States, and in relation to projects or activities carried out by other authorities with the aid of Commonwealth funds. It is also concerned with the enforcement of provisions of relevant international conventions to which Australia is a signatory.

The various governments collaborate in environmental and conservation matters through three Ministerial Councils:

- the Australian Environment Council, which provides a framework for consultation on environmental matters;
- the Council of Nature Conservation Ministers, which is concerned with preservation of wildlife and the establishment and management of national parks;
- the Australian Water Resources Council, which is concerned with the assessment development and use of national water resources.

Each government has designated ministers who are concerned with the administration of broad policies for environmental protection. In some cases, governments have implemented policies requiring the provision for public scrutiny of environmental impact statements as a prerequisite to approval of new development projects or activities with significant environmental consequences.

A Bureau of Environmental Studies within the Department of Environment, Housing and Community Development is charged with reviewing requirements for environmental research, assessing the extent to which such requirements are being satisfied through programs of various agencies, and promoting or directly undertaking research needed to fill gaps in the overall program.

Meteorology

The Bureau of Meteorology, which is a Division of the Department of Science, is the national authority for providing weather forecasting and warning services, and general meteorogical information and consultative advice. Users of these services include the general public, defence forces, civil aviation and marine authorities, and specialist groups in primary and secondary industries.

Programs of research are carried out in support of these services, often in co-operation with other institutions concerned with meteorological science, including universities and the Environmental Physics Research Laboratories of the CSIRO. The Australian Numerical Meteorology Research Centre, which specialises in the development of numerical model techniques for predicting atmospheric behaviour, is operated jointly by the Bureau of Meteorology and the CSIRO.

At June 1975, the Bureau had a staff establishment of approximately 2,000, including about 450 professionals. In addition, a large number of persons assist part-time in maintaining the Bureau's extensive observational network.

Total expenditure in 1974-75 was approximately \$31.2 million. About 62.5 per cent of funds was provided by the Commonwealth Government through direct appropriation, while all but a small portion of the balance came from charges made to other Commonwealth agencies, principally for meteorological services in support of civil and defence aviation activities.

Ionospheric Prediction Service

The Ionospheric Prediction Service Branch of the Department of Science (IPS) exists to assist users of radio communications to achieve the most effective and efficient use of radio transmissions that are influenced by or dependent on the ionosphere. The staff of the Branch make regular measurements of the ionosphere above Australia and its territories and of the sun, and issue both short and long term predictions of the state of the ionosphere as it applies to radio communication.

Research into physical phenomena affecting the condition of the ionosphere forms part of the regular activity of the IPS.

Scientific and technological information services

Information services for scientists and technologists are provided through National and State libraries, and through libraries operated by scientific and technological agencies of the Commonwealth and State Governments, by tertiary education institutions, and by industrial organisations. In 1973, a Committee of inquiry recommended, inter alia, that the Commonwealth Government establish a national scientific and technological information (STI) authority to advise on the development of a national STI policy, and to promote the orderly development of scientific and technological library and information services in Australia. Three national subject libraries are now being established by the National Library of Australia: the Australian National Scientific and Technological Library (ANSTEL) which was officially opened in 1975; the Australian National Social Sciences Library (ANSOL); and the Australian National Humanities and Arts Library (ANHUL). Other major sources of STI within Australia are CSIRO's Central Information Library and Editorial Section (CILES) and the Australian Manufacturing Technology Information System (AMTIS) which is being established within the Commonwealth Government Department of Industry and Commerce.

Major government research agencies

The Commonwealth Scientific and Industrial Research Organisation (CSIRO)

The CSIRO is the largest scientific research organisation in Australia. It is a statutory body established in 1949 to replace the former Council for Scientific and Industrial Research (CSIR).

The main function of the CSIRO is to carry out scientific research and investigations in connection with Australia's primary and secondary industries. The CSIRO has at present 37 research Divisions and 6 smaller research Units, a number of them being linked together in laboratory groups. The wide range of their activities is illustrated by the following table.

GENERAL DISTRIBUTION OF RESEARCH EFFORT IN CSIRO

(In terms of non-capital expenditure for 1974-75)

| Field | Divisions and units | | \$ million | Per cent |
|--|--|---|------------|----------|
| Crops and pastures | Agro-industrial Research Horticultural Research Irrigation Research Plant Industry Tropical Agronomy | • | 12.5 | 13.9 |
| Livestock | Animal Genetics Animal Health Animal Physiology Nutritional Biochemistry | ٠ | 12.4 | 13.8 |
| Land use | Land Resources Management . Land Use Research Soils | • | 8.2 | 9.1 |
| Insects and wildlife | Entomology Wildlife Research | • | 7.0 | 7.7 |
| Marine science | Fisheries and Oceanography . Marine Biochemistry | | 3.9 | 4.3 |
| Environmental physics | Atmospheric Physics Cloud Physics Environmental Mechanics | • | 2.9 | 3.2 |
| Wool processing and textiles | Protein Chemistry Textile Industry Textile Physics | | 6.2 | 6.9 |
| Food | Food Research | | 5.1 | 5.6 |
| Mineral exploration, processing and properties | Chemical Engineering Minerology Mineral Chemistry Mineral Physics | • | 7.7 | 8.5 |
| National standards | National Measurement Laboratory | | 5.2 | 5.8 |
| Chemical and physical research industrial interest | Applied Organic Chemistry. Chemical Physics Chemical Technology Tribophysics | • | 7.3 | 8.0 |
| Engineering and construction | Applied Geomechanics Building Research Mechanical Engineering Solar Energy Studies | ٠ | 6.9 | 7.6 |
| Radiophysics | Radiophysics | | 3.0 | 3.3 |
| Computing and statistics | Computing Research | | 2.1 | 2.3 |

The powers and functions of the CSIRO are prescribed in the Science and Industry Research Act 1949 under which the Organisation operates. In brief these are as follows:

to carry out scientific research and investigations in connection with Australian primary and secondary industries or any other matter referred to it by the Minister for Science,

to train scientific research workers, and award studentships,

to make grants in aid of scientific research,

to recognise and support research associations,

to maintain national standards of measurement,

to disseminate scientific and technical information,

to publish scientific and technical reports, and

to liaise with other countries in matters of scientific research.

The CSIRO has a total staff of about 7,000 persons located in more than 100 laboratories and field stations throughout Australia. About one-third of the staff are professional scientists.

In 1974-75, the CSIRO operations cost approximately \$105 million, more than 80 per cent of which was met by the Commonwealth Government through direct appropriation. Of the remainder, about four-fifths was spent on research concerned with various primary industries and came from statutory trust funds most of which derived from levies on production, and a supplementary contribution by the Commonwealth Government. The balance of operating expenses, comprising less than 4 per cent of the total, came from individual companies, other Commonwealth agencies, overseas instrumentalities and private foundations.

The Australian Atomic Energy Commission (AAEC)

The AAEC was established by the Commonwealth Parliament under the Atomic Energy Act 1953 as a statutory body whose main functions are to facilitate the development of Australia's resources and the utilisation of various forms of nuclear energy within the Australian economy.

Moving in its earliest days towards the planning and construction of a nuclear research establishment at Lucas Heights near Sydney. the Commission arranged for a nucleus of scientists and engineers to obtain training and experience through overseas attachments, mainly in the United Kingdom. By the late 1950s an R & D program had been initiated at its research establishment.

The AAEC's activities are controlled by a Commission which is responsible to the Minister for National Resources. The Atomic Energy Act provides for the Commission to consist of five Commissioners including a Chairman.

The Commission's current program places emphasis in the following areas.

Nuclear power. The assessment of the potential contribution and the total implications of nuclear power in the co-ordinated development of Australia's energy resources.

Safety and the environment. The establishment of adequate arrangements for safety assessment, licensing and regulation of all nuclear facilities including those for the long-term management and disposal of radioactive wastes, in order to control potential hazards to health and the environment.

Uranium and nuclear fuels. The development of uranium resources, consideration of the desirable extent and timing of uranium processing including enrichment, and the development of a technical base on which Australia could establish its own uranium enrichment technology.

Radioisotopes and radiation. To continue to meet the expanding requirements for radioisotopes, particularly in medicine, and further to explore the benefits to be achieved by the application of radioisotopes and radiation in industry.

International relations. To assist in matters arising from Australia's membership of the International Atomic Energy Agency and the OECD-Nuclear Energy Agency and in matters arising from Australia being a party to the Treaty on the Non-Proliferation of Nuclear Weapons.

At June 1975 the Commission employed 1,304 staff of whom 370 were professional. For the year 1974-75 total expenditure was about \$18.0 million of which \$16.6 million was spent on research.

The AAEC participates in the activities of the Australian Institute of Nuclear Science and Engineering. The Institute, which has a corporate membership comprising the Commission and the Australian universities, is concerned with the awarding of studentships, fellowships and research grants, with the organising of conferences and with arranging the use of AAEC facilities by postgraduate students.

The Antarctic Division, Department of Science

Australia has been active in research and exploration in the Antarctic region since early in the present century, but the overall effort has expanded appreciably since the 1940s when the Government established the Australian National Antarctic Research Expeditions (ANARE) and the Antarctic Research Division.

Services provided by the Division in relation to research expeditions include:

the establishment and maintenance of three permanent multi-disciplinary stations on the Antarctic continent and one on sub-Antarctic Macquarie Island;

the mounting of annual and shorter term research expeditions;

the co-ordination of activities of agencies involved with ANARE; the Antarctic Division itself, the Bureau of Meteorology and the Ionospheric Prediction Service of the Department of Science; the Bureau of Mineral Resources, Geology and Geophysics, and the Division of National Mapping of the Department of National Resources; certain sections of the Army; various university departments; and the CSIRO.

In addition to its general support function, the Division directly undertakes research in such fields as cosmic ray and upper atmosphere physics, glaciology, Antarctic biology and medical science matters relevant to Antarctic conditions. Personnel at research stations include meteorologists, physicists, glaciologists, biologists and logistic staff.

At any given time the total staff complement of the Division varies between 160 and 190 persons about half of whom are engaged on a short-term basis to man annual expeditions and provide general support. The permanent staff includes about 15 scientists. Expenditure by the Division in 1974–75 was approximately \$4.5 million.

Australia is a signatory to the Antarctic Treaty, and many of its scientific activities in Antarctica are undertaken in collaboration with other signatory countries.

Australian Institute of Marine Science (AIMS)

The Australian Institute of Marine Science is being established on a 190 hectare site within a national park at Cape Ferguson, 50 kilometres south of Townsville. A 5,600 square metre laboratory complex and research vessel harbour are to be constructed. In the interim, temporary accommodation at Cape Pallarenda, just north of Townsville, is being used by research groups.

The Institute is mainly concerned with research and will emphasise multi-disciplinary projects focused on tropical marine sciences. Research projects at AIMS fall into four main areas: marine food webs; reef-building organisms and coral reefs; tropical oceanography; and marine pollution. These areas were selected both for their current importance to marine science and for their relevance to many applied problems. Specific programs being undertaken by the Institute concern: inshore productivity; plankton behaviour; ultraplankton; coral taxonomy; coral calcification; reef diagenesis; oceanographic mixing processes as related to cycling and budgets of plant nutrients; and pollution studies of trace metals.

Defence science

Much of the research and development effort conducted by the Commonwealth Government falls into this category. A fuller coverage may be found in Chapter 4, Defence.

Research in industry

Contrary to the situation in most industrialised countries, a smaller proportion of the overall R & D effort in Australia is undertaken in private industry than in government agencies. However, while precise statistics are not available, industry's percentage contribution to total R & D performance is believed to have increased in the period since 1964-65, partly under the stimulus of the grants scheme introduced by the Commonwealth Government with the aim of encouraging private business enterprises to increase the levels of their expenditure on industrial research and development (I R & D).

The Commonwealth Government has encouraged technological innovation by industry directly through financial incentives and indirectly through patent legislation, taxation and educational measures which provide a favourable economic climate for such innovation. In recent years the principal avenue of direct assistance has been the Industrial Research and Development Grants Scheme

In 1974-75, some 1,400 firms applied for grants under the Grants Scheme. From the Scheme's inception in 1967 up to June 1975, \$91 million was disbursed. Grants received by firms are taxable, hence the net incentive to industrial R & D is rather less than the above figures imply. The broad industry groups that have benefitted principally under the Scheme are basic metal products, industrial machinery and equipment, electric and electronic apparatus, transport equipment and chemicals. Following a review by the Government, the Scheme was revised in 1976 so as to operate in a more cost effective manner. The new Scheme, now known as the Industrial Research and Development Incentives Scheme, commenced operation in the 1976-77 financial year.

Other fields of activity which to some extent involve the adoption by industry of new technology, and which attract financial support from the Commonwealth, include industrial design and product standardisation. The Industrial Design Council of Australia and the Standards Association of Australia received subsidies from the Government of \$340,000 and \$850,000 respectively in 1973-74.

Metric conversion

Related to product standardisation is the conversion to the metric (SI) system of weights and measures which is now well advanced in Australia. The conversion program has been developed and implemented under the guidance of a Metric Conversion Board established by the Common-

wealth Government. The Board estimates that the program is now about 70 per cent complete and envisages that it will be substantially completed by 1980. Because implementation of the program depends in large measure on general community co-operation, the Board has been assisted by advisory groups representative of all sectors of the community.

Industry organisations

A number of organisations aiming, wholly or in part, to support and encourage R & D have been established within industry. Some have largely sectional interests, such as the Australian Engineering and Building Industries Research Association, the Australian Mineral Industries Research Association, and the Bread Research Institute.

Organisations with broader interests and roles include the following.

The Australian Industrial Research Group (AIRG). This is an association, founded some ten years ago, of managers of research and development employed in Australian industry. Its members, numbering about 50, control most of the R & D expenditure in Australian industry. Objectives of the Group are to improve the quality of research management in Australia and to stimulate and develop an understanding of research as a force in economic, industrial and social activities. The Group's activities have included conduct of a survey of R & D expenditure by Australian industry, sponsorship of studies into science education and the electronics industry, and provision of advice on desirable amendments to the Industrial Research and Development Grants Act.

The National Association of Testing Authorities (NATA). This Association was established in 1947 at the direction of the Commonwealth Government. NATA is the recognised body for the registration as testing authorities of both government and industrial laboratories within a wide area of science and technology. Laboratories receive registration only after careful assessment to ensure that they meet the required standards. At June 1973 the Association had registered 925 laboratories including 697 in industry, 190 in Commonwealth and State government establishments and 38 in educational institutions.

The Standards Association of Australia (SAA). This Association was founded in 1922 to publish and promote the adoption of Australian standards. Standards are prepared only after a full inquiry has shown that the project is a desirable one and worth the effort involved. Work is based on voluntary agreement and recognition of the community of interest of producer and consumer.

The Industrial Design Council of Australia. This Council is a voluntary association of leading industrialists, academics and other professionals whose aim is to accord design appropriate status in the production process. In particular the Council aims to improve productivity, sales and profits, and to promote a healthy, vigorous manufacturing industry which will in turn contribute to the economic and cultural welfare of the nation. The Council is also concerned to promote a wider understanding of industrial design, and the development of a strong profession in Australia through, among other things, appropriate education for industrial designers.

The Productivity Group Movement. Productivity Groups have been established throughout the country with the object of improving productivity and efficiency by exchanging ideas, reviewing experience and by discussion of the practical problems of group members. The Department of Employment and Industrial Relations promotes and actively participates in the productivity group movement. In 1973 there were some 250 groups comprising over 5,700 member undertakings.

The Industrial Research Institute of South Australia Incorporated. This Institute was established by the Government of South Australia in 1971 with the aim of promoting and co-ordinating industrial research activities within that State. The Institute offers advisory services to individual companies in relation to their research needs, and maintains various information services to South Australian industry generally. Industry, research organisations, and the universities in South Australia, along with the South Australian Institute of Technology, are represented on the governing Council.

The Australian Innovation Corporation Limited (AICL). Some 40 Australian companies are shareholders in this Corporation which was established in 1970. It provides both advice and funds to assist in the promotion and commercialisation of local research, invention and development.

The National Small Business Bureau. This Bureau, established by the Commonwealth Government, has primarily a research and co-ordination role in relation to national and State assistance to small business. This includes the bringing together of special expertise in business management, industrial technology, industrial relations and other subjects relevant to promoting the efficient development of small business.

Research in universities and colleges

University research is financed from four main sources:

general recurrent funds recommended by the Universities Commission;

special grants for research recommended by the Commission;

grants from other Government sources, particularly the Australian Research Grants Committee (ARGC) and the National Health and Medical Research Council (NH & MRC); and grants, contracts and donations from private sources.

In 1973, research expenditure in Australian universities totalled some \$49.5 million (excluding salaries and wages). Of this sum, \$2.3 million was provided through the NH & MRC and \$5.4 million through the ARGC. The latter Committee assesses proposals in the social sciences and humanities, in physics, chemistry, biology, earth sciences, engineering and applied sciences. The prime criterion for support is the excellence of the proposal made. In three areas, those of upper-atmosphere research, marine science and multidisciplinary research, the Committee has sought to give special encouragement. Over the 1973–75 triennium, particular sums were "earmarked" for grants in these fields. In all other areas grants have been made without regard to the distribution of funds between the different areas.

Colleges of Advanced Education do not maintain expensive research facilities or programs akin to those of the universities. Staff are nevertheless encouraged to undertake research to the extent that this is possible. Research of an applied nature, and associated consultancy services to industry and commerce, are expected to become increasingly prominent within the colleges.

Research organisations associated with tertiary education institutions

Several of the universities and colleges of advanced education have established independent companies, operating on a commercial basis, to promote and manage research and consultancy services to industry, commerce, government and the general community. Examples are: Unisearch Ltd of the University of New South Wales, which is the largest of these organisations, with annual income at present of about \$500,000; Technisearch Ltd of the Royal Melbourne Institute of Technology; Techsearch Inc. of the South Australian Institute of Technology.

These organisations play an important role in promoting communication between the higher education and other sectors. They undertake investigational and research projects, mainly in the fields of engineering and science. However activities in other fields, such as management, marketing and the social sciences are increasing. Testing work, performed generally by full-time employees, is, undertaken in some instances. Results of work are confidential to the client and are not published unless authorised by that client.

Social science research

Research in the social sciences is undertaken primarily in universities and agencies of the Commonwealth and State governments. Financial support for research in non-government bodies, especially universities, is provided by government. This support comes both from general funds provided to the universities and also from specific granting bodies such as the Australian Research Grants Committee and the Australian Advisory Committee on Research and Development in Education.

The bulk of social science research carried out within Commonwealth Government agencies is performed as part of the general activities of various departments. However, several agencies have been established specifically to undertake research.

Studies are undertaken in such fields as:

economic research:

education research;

statistical and social analysis of health and social security schemes;

personnel management and industrial psychology, including inquiries into physical working conditions, industrial safety and the effects of technological change on employment;

research directed at the development of standards for residential accommodation;

research directed at the development of a system of social indicators to measure community progress in terms other than economic growth, and to determine the processes by which social goals are realised.

Agencies which have been established to undertake research in particular areas include the Australian Institute of Aboriginal Studies, the Australian Institute of Criminology, the Bureau of Agricultural Economics and the Bureau of Transport Economics.

Agencies of the various State governments undertake research relevant to their own activities and programs.

Examples of these programs are:-

in the field of health services—studies of social determinants of morbidity, of patterns of utilisation of health services, and of the management of such services;

in the field of youth and community services—studies of the ecology of urban deliquency, of efficiency of the system of prisoner parole, and of causes of intellectual handicap in children; in the field of crime research—the accumulation and interpretation of crime statistics.

A major research program into the causes of family disruption and breakdown in Australia is being supported jointly by the Commonwealth and State governments.

Exchange of ideas and information on the social sciences is promoted through a number of professional and learned bodies, of which the Australian and New Zealand Association for the Advancement of Science (ANZAAS) and the Academy of the Social Sciences in Australia are the most broadly based. In addition to encouraging the advancement of the social sciences, the Academy sponsors and organises research, subsidises publications and acts as a consultant and advisor on the social sciences.

Non-government bodies which undertake or promote research in specific fields of the social sciences include the Australian Institute of International Affairs, the Australian Institute of Urban Studies, and the Australian Institute of Political Science.

International activities

International organisations

Australia participates in the activities of both governmental and non-governmental international scientific organisations. Interaction with the former group of bodies is arranged through Commonwealth Government agencies, but participation in the activities of bodies such as the FAO, IAEA, UNESCO, WHO, WMO is not restricted to governmental scientists. To facilitate scientific liaison and representation some Government agencies have scientific and technological representation at overseas posts (e.g. Japan, United Kingdom, United States of America, USSR, IAEA, OECD). Australia also plays an active role in regional bodies such as ESCAP (formerly ECAFE), the Pacific Science Congress, and the Association for Science Co-operation in Asia (ASCA), and has provided technical assistance to countries in the region under both multilateral and bilateral arrangements.

In particular, Australia is co-operating with the endeavours of the Committee for Scientific and Technological Policy of the OECD in its programs on:

Automated information processing and communication systems.

Assessment of the social consequences of new and existing technologies.

Effects of technology transfer by multinational enterprises.

Measurement of resources (financial and manpower) devoted by OECD member countries to scientific research and development.

Participation in international non-governmental scientific bodies is arranged through learned and professional bodies. For example, the Australian Academy of Science provides representation to the International Council of Scientific Unions (ICSU) and a number of its affiliated bodies.

Studentships and fellowships

Australia has assisted other countries, principally in the Asian and Pacific regions, by training their nationals. Large numbers of such students, mainly seeking first qualifications at tertiary level, have been accommodated under schemes such as the Colombo Plan. There are also arrangements under which established scientists from overseas are assisted to undertake study and research in Australia, but there are more Australian scientists going abroad temporarily than there are foreigners entering temporarily for these purposes.

Bilateral arrangements

Various bilateral arrangements at both government and non-government levels have contributed to the development and maintenance of co-operation in science and technology between Australian institutions and scientists and those in other countries. Formal bilateral agreements solely devoted to scientific and technological co-operation have been entered into with the USA (1968), India (1975) and the Federal Republic of Germany (1976) and are administered by the Department of Science. A fourth such agreement with the USSR (1975) is administered by the Department of Foreign Affairs.

Activity under the United States/Australia agreement has reached a steady level. Support is provided for about eight specialist seminars, and between ten and twenty individual visits, each year. Where opportunities exist, other co-operative projects which depend on special facilities are supported.

None of the more recent agreements have yet reached a constant level of activity, in all cases, however, opportunities for co-operation are being actively pursued. Under the USSR/Australia agreement exchange visits by expert groups have taken place in a number of specialist fields, including earth sciences, plant industry, radio astronomy, entomology, and textile technology.

Astronomy

In the field of optical astronomy, Australia and Britain are co-operating in the Anglo-Australian telescope project which involves the operation in Australia of a 3.9 metre reflecting telescope at Siding Springs, New South Wales. The telescope, among the largest in the southern hemisphere, was officially opened in October 1974.

Observing time on the telescope is shared equally between Australia and the United Kingdom. It is expected that work with the telescope will complement the significant progress made by radio-astronomers in Australia.

Space

Agreements have been signed by the Governments of Australia and the United States of America to co-operate in the establishment and operation in Australia of space vehicle tracking stations. The agencies for the Australian and the American Governments are the Department of Science and the National Aeronautics and Space Administration (NASA) respectively.

As part of the world-wide network supporting NASA's space program the stations track space-craft in their orbits around the earth or on their journeys into space, receive telemetered data from the spacecraft, and issue radio commands controlling the spacecraft's manoeuvres. The Department of Science is responsible for managing, staffing and operating the stations on behalf of NASA. The stations which are now in operation are at Orroral Valley, Honeysuckle Creek and Tidbinbilla in the Australian Capital Territory. For 1974–75, NASA expenditure on operations in Australia was \$11.5 million.

An extensive communications system links the tracking stations with the control centres in the United States of America. At all stations the responsibility for the system is vested in a station director who is a senior officer of the Department of Science.

High altitude

The Balloon Launching Station at Mildura, Victoria, is operated by the Department of Science under a joint-sponsorship arrangement with the U.S. National Science Foundation. The station provides a service for scientific research requiring the use of high altitude balloons. These services are available to research workers from the U.S.A., Australia and other countries.

Defence

In the field of defence science, Australia collaborates with other countries through a variety of arrangements at inter-governmental level. Further information is given in Chapter 4, Defence.

Other

At the non-governmental level, formal arrangements for sciencific co-operation with counterpart institutions in other countries have been concluded by a number of Australian bodies. For example, an arrangement covering co-operation in astronomy exists between the University of Sydney and Cornell University (USA), while over a broader area The Australian National University has an arrangement with the University of Moscow which includes exchanges in the scientific fields.

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CHAPTER 29

CULTURAL ACTIVITIES, RECREATION AND TRAVEL

This chapter is divided into three major sections. The culture activities section consists mainly of a description of cultural organisations and some statistical information concerning financial assistance for the arts.

The recreation section comprises descriptive information provided by the Department of Environment, Housing and Community Development and Recreation on four major aspects of leisure: community recreation, fitness, sports development, and youth affairs. Information on tourism, the fifth major aspect of leisure, is provided by the Department of Industry and Commerce. This section also includes the results of a Census of Tourist Accommodation Establishments for the year ended 30 June 1974, and guarterly accommodation surveys conducted by the Australian Bureau of Statistics.

The travel section consists mainly of statistics concerning overseas visitors to Australia and Australian residents departing overseas. There is also a short note about travel within Australia.

CULTURAL ACTIVITIES

Cultural organisations and financial assistance for the arts

In Australia the arts are given financial support on several levels. The main sources of subsidy are the Commonwealth and State governments, but support has been increasing recently from local governments and universities. Support from private sources is still limited, but inclusion of the arts in the benefits of private foundations, and sponsoring of awards and scholarships is gradually increasing. While support is received indirectly through government educational, cultural and other public service instrumentalities, three organisations have played a significant role in serving and financing the arts.

The Arts Council of Australia

The Arts Council of Australia was founded shortly after World War II. (It should not be confused with the Australia Council mentioned later in this chapter which is a national government agency for assistance to the arts).

The Arts Council is an independent, non-government association consisting of a federation of State 'Divisions'; each Division is based on the local branches organised in country centres. With the exception of Western Australia, the Arts Council has a Division in each State and Territory and throughout Australia there are more than 160 branches. In the case of Western Australia the Arts Council co-operates closely with the recently formed Western Australian Arts Council, which is a statutory authority established by the Western Australian Government to fund and service the arts.

The Arts Council has two main objectives: to arrange tours by professional arts attractions (including performances for school audiences) to country areas; and the establishment of weekend or vacation 'schools'. Activities include arranging poetry readings; the exhibition of paintings, sculpture, crafts and prints; and the presentation of concerts, drama, opera, dance, puppetry and music for primary and secondary schools. A recent development involves week-long holiday schools for young people which cover many forms of art and craft.

Australian Elizabethan Theatre Trust

The Australian Elizabethan Theatre Trust, which was established in the mid 1950s, was originally formed to present drama, opera, ballet and puppetry throughout Australia. Full autonomy has now been accorded to most of the performing companies established by the Trust in its earlier years and only the Marionette Theatre of Australia continues to operate under Trust administration. The Trust's major functions now are to provide financial guarantees to the independent performing companies and tours; to maintain two orchestras (based in Sydney and Melbourne) to service the

requirements of the Australian Opera and the Australian Ballet; to administer subscription booking systems on which both of these companies now operate; to act as entrepreneur in the touring of theatre features from overseas and Australian sources; and to provide general services in communication for theatre organisations.

The Trust receives annual grants from the Federal Government through the Australia Council and from State and local governments. Its revenue is supplemented by subscriptions from members, by donations from businesses and private individuals and by its own entrepreneurial activities.

The Australia Council

In 1968 a new Federal body, the Australian Council for the Arts, was created. It operated as an advisory agency to the Government and was responsible directly to the Prime Minister. It was originally intended to service mainly the performing arts, and also to supplement existing government bodies such as the Commonwealth Art Advisory Board and the Commonwealth Literary Fund.

In 1972 a new Council was established to bring all Commonwealth Government support for the arts under unified administration, and in January 1973 the Prime Minister announced the Government's intention to legislate to establish the Australian Council for the Arts—subsequently to be known as the Australia Council—as a statutory authority, an independent agency to carry out it's policies in the arts. The Australia Council became a statutory authority in March 1975.

Within the Council framework there are six specialists Boards: Theatre (including Drama, Dance and Puppetry); Visual Arts; Music (including Opera); Literature; Crafts; and Aboriginal Arts. The Boards each consist of a maximum of seven members, except for the Aboriginal Arts Board which has a maximum of nine. The Chairman of each Board is also a member of the Council and the Boards are the main source of policy initiatives in their field.

The Council itself consists of not less than 15 and not more than 19 members, including the Board Chairmen, (see above) appointed by the Prime Minister. It is responsible to the Government for policy development in matters of common concern to all Boards, and for a program of overseas exchanges. It advises the Government on new initiatives, on overall budgetary requirements and on matters referred to it by the Prime Minister or other Ministers. It acts as a forum for discussion and co-ordinated planning between various Boards.

Federal Government grants to the Council and other funding agencies increased steadily through the first years, A marked increase occurred in 1973 and 1974.

FEDERAL GOVERNMENT APPROPRIATION TO THE AUSTRALIA COUNCIL (FORMERLY THE AUSTRALIAN COUNCIL FOR THE ARTS) (\$ million)

| Year | | | 1968–69 | 1969–70 | 1970-71 | 1971–72 | 197 2 –73 | 1973–74 | 1974-75 | 1975–76 |
|-------|------|---|---------|---------|---------|---------|------------------|---------|---------|----------|
| Grant | • | • | 1.67 | 2.85 | 3.85 | 4.50 | 6.55 | 14.00 | 20.00 | (a)20.00 |

(a) Reduced by \$300,000 in accordance with government budget restrictions.

In addition to the 1974–75 budget allocation of \$20 million a sum of \$2,235,200 was granted to cover administrative expenses. The distribution of funds between the various Boards by the Council is made on the basis of budgets prepared by the Boards in relation to the calls for funds and services anticipated, by means of consultation with the Boards to determine their individual needs.

DISTRIBUTION OF FUNDS TO BOARDS OF THE AUSTRALIAN COUNCIL FOR THE ARTS (AUSTRALIA COUNCIL) 1974-75

| | | | | \$ |
|--------|-------|-------|----------------------|------------------|
| | | | | 3,633,200 |
| | | | | 5,372,500 |
| | | | | 1,094,400 |
| | | | | 4,228,400 |
| | | | | 1,591,800 |
| | | | | 945,200 |
| evisio | n Boa | rd(a) | | 2,189,300 |
| rd | | | | 945,200 |
| Arts | | | | 20,000,000 |
| | rd | rd . | evision Board(a) | evision Board(a) |

⁽a) Functions transferred to the Australian Film Commission in 1976.

Council programs include a financial responsibility for projects in which Boards have a common interest.

Some 7,600 requests for assistance were received during 1974-75, of which more than 3,000 were approved wholly or in part.

Heritage Commission

TOTAL EXPENDITURE AND APPROPRIATION, 1974-75

| | | | | Total grants paid | Cost of special services, board meetings, etc. | Total expenditure | Total appropriation |
|--------------------|----------|--------|-------|-------------------------|---|----------------------|------------------------|
| Council program a | nd acti | vities | | 3,146,756 | 408,072 | 3,554,828 | 3,633,200 |
| Theatre Board . | | | | 5,358,033 | 87,420 | 5,445,453 | 5,372,500 |
| Visual Arts Board | | | | 1,050,583 | 43,782 | 1,094,365 | 1,094,400 |
| Music Board . | | | | 4,172,101 | 56,520 | 4,228,621 | 4,228,400 |
| Literature Board . | | | | 1,552,929 | 38,220 | 1,591,149 | 1,591,800 |
| Crafts Board . | | | | 914,498 | 27,929 | 942,427 | 945,200 |
| Film, Radio and To | elevisio | n Boai | rd(a) | 2.150,814 | 38,486 | 2,189,300 | 2,189,300 |
| Aboriginal Arts Bo | ard . | | | 892,706 | 52,406 | 945,112 | 945,200 |
| Total | | | | 19,238,420 | 752,835 | 19,991,255 | 20,000,000 |
| Administration . | . • | | • | • • • | • • | 2,195,411 | 2,235,200 |
| Grand total | | | • | | | 22,186,666 | 22,235,200 |

⁽a) Functions transferred to the Australian Film Commission in 1976.

The National Estate

Heritage Commission

In May 1973 a Committee of Enquiry was appointed to define the 'National Estate' and to offer suggestions on action in its area. The Committee recommended the establishment of a permanent commission on the national estate to be called the Australian Heritage Commission. Meanwhile an Interim Committee, consisting of both departmental and private members, was established and first met in September 1974. The Interim Committee advised the Ministers for Urban and Regional Development and for Environment and Conservation on matters pertaining to the protection, conservation and preservation of the National Estate.

The Act to establish the Australian Heritage Commission was assented to in June 1975. Essentially, the prime function of the Commission is to convey to the Government its expert and considered advice on the state of the National Estate and on the measures that should be taken to ensure its responsible conservation. In addition, the Commission has a statutory task of preparing a Register of the National Estate.

Australian National Trusts

The Australian National Trusts were founded to further the preservation of lands, places, buildings, works, and articles which are of national importance because of educational, aesthetic, historic, architectural, artistic, scientific, cultural, or other special interest.

The first National Trust, the National Trust of Australia (New South Wales), was formed in 1954. Since then National Trusts have been formed in each of the other States and the Northern Territory. The Trusts in New South Wales, Queensland, South Australia, Western Australia, Tasmania and the Northern Territory have statutory authority and that in Victoria is incorporated under the Companies Act of Victoria.

Membership of the National Trusts is open to all individuals and organisations. Total membership throughout Australia is approximately 60,000. The Trusts are financed by members' subscriptions and donations from individuals and commercial and industrial organisations, the proceeds of charges for entry to Trust properties and the fund raising activities of members, including inspections of historic buildings. Each State National Trust receives financial support from the Commonwealth Government in the form of an administrative grant-in-aid of \$30,000 each per annum and each receives support from its State Government.

The Australian Council of National Trusts was incorporated in 1965 to co-ordinate the activities of the State National Trusts and represent them at federal and international level. The Commonwealth Government supports the Council through an annual grant of \$60,000 for administrative purposes and also provides support to the Council and State Trusts through taxation concessions.

In the past three years the National Trusts have received substantial grants from the Commonwealth Government under the National Estates program for capital projects, mainly the restoration of buildings and conservation studies. They have also supervised projects of other organisations financed under the program.

The number of properties owned or controlled by the Trusts exceeds 200. These include houses such as Clarendon (Tas.), natural reserves, a telegraph station, stock exchange (Charters Towers, Qld), a powder magazine, a market (Castlemaine, Vic.), an inn (Overland Corner, S.A.), a police station, a court house, a gaol, an historic hamlet (Greenborough, W.A.), two paddle steamers and an iron barque, a joss house and a garden (Leura, N.S.W.). The Trusts have established registers of places including buildings, urban areas and landscapes (totalling 13,000) which they consider should be preserved as part of the national heritage.

Historic Memorials Committee

The Historic Memorials Committee was established in 1911 for the purpose of securing portraits of distinguished Australians who had taken an active part in Federation. Later the Committee decided to obtain portraits of all Governors-General, Prime Ministers, Presidents of the Senate, Speakers of the House of Representatives, Chief Justices of Australia, and other notable Australians. In addition the Committee has commissioned paintings recording special events connected with the Commonwealth Parliament.

The Committee comprises the Prime Minister (Chairman), the President of the Senate, the Speaker of the House of Representatives, the Vice-President of the Executive Council, the Leader of the Opposition in the House of Representatives, and the Leader of the Opposition in the Senate. The Committee is advised on commissioning of portraits by the Visual Arts Board of the Australia Council.

The performing arts

Festivals

Festivals of the arts are playing an increasing role in the nation's cultural life and there are now over 350 being presented throughout Australia. The two biggest are Adelaide's biennial and Perth's annual festivals, both of which last several weeks and present overseas artists as well as leading Australian companies. Whilst all States have regular arts festivals Tasmania, Queensland and the Australian Capital Territory are in the process of establishing major arts festivals and Victoria's large popular festival 'Moomba' has a substantial arts program.

Other popular festivals are introducing arts events and many small country centres now have arts festivals which attract performers and artists from a wide area. Purely amateur and competitive performances are being infused with increased professionalism. Seminars, arts workshops and community participation programs are increasingly popular.

Theatre

Commercial theatre organisations play an important role in the theatrical life of the country, providing musicals and plays, and bringing to Australia overseas companies such as the Leningrad Kirov Company, the Royal Shakespeare Company and the Moscow Circus. Commercial theatre organisations and enterpreneurs frequently collaborate with government subsidised organisations in arranging joint festival attractions and visits by internationally acclaimed artists and companies. Established non-commercial professional companies in all States are subsidised.

Travel grants and study grants are made available to those seeking advanced training in professional, artistic, administrative and technical aspects of the performing arts.

International exchanges in the arts are seen to be of special importance and eminent overseas producers, performers and choreographers have visited Australia for short periods to work with Australian theatre companies.

There is a strong demand both for new Australian works and for Australian content in television programming. This growing activity in the arts is giving Australian artists new creative opportunities and a larger measure of public recognition and acceptance.

Opera

The Australian Opera was created in 1956 under the auspices of the Australian Elizabethan Theatre Trust to form the basis of a national touring opera company. It was known as the Elizabethan Trust Opera Company until the end of 1969 when the Australian Opera formed its own Board of Directors. In its early years the company retained only a core of full-time administrative officers and engaged its singers for each annual season. These seasons involved the presentation of three

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operas in most years and a tour circuit covering each State. In September 1973 the Australian Opera opened its first season in the new Sydney Opera House. It currently employs a chorus of 51 singers and 36 resident soloists on a permanent basis.

The 1975 budget for the Australian Opera is \$4,300,000; this does not include the cost of the orchestras (which are still financed through the Elizabethan Theatre Trust). Of this total, approximately \$1,700,000 comes from State and Federal subsidies or from donations from individuals or industry. The Federal grant was \$1,350,000. The remaining \$2,600,000 is met from box office receipts, in Sydney and on tour.

In addition to the Australian Opera, small professional opera companies have been established in each capital city. These companies tour extensively within their resident State and performances in schools are an important part of their work.

Rallet

The Australian Ballet Foundation was formed in 1961 by the Australian Elizabethan Theatre Trust and J. C. Williamson Theatres Ltd to establish a national ballet company, which gave its first performance on 2 November 1962.

The establishment of a permanent Australian company, the appearance of the world's leading artists with the company, the commissioning of works by Australian composers, choreographers and designers and presentation of the company overseas were achieved within the first three years.

The Australian Ballet receives subsidies from the Federal Government (through the Australia Council), the six State Governments and the major municipal bodies (through the Australian Elizabethan Theatre Trust). It also receives support from private corporations and individuals. The Australian Ballet has its headquarters and studios in Melbourne.

The 1975 budget for the Australian Ballet is \$2,800,000; of this some 32 per cent (\$900,000) is met by Commonwealth Government subsidy, and 5 per cent by grants from State governments. This figure does not include the services of the Elizabethan Trust Orchestra which is maintained by the Trust to service the requirements of the Australian Ballet. Much of the remainder is met from box office receipts.

The Australian Ballet School is associated with the Australian Ballet, and shares its Melbourne premises.

Music

The Music Board of the Australia Council is responsible for administering Commonwealth Government assistance to music and opera. Assistance is provided for a wide range of music activities—one of the most important is the development of Australian music and the growing interest in the work of Australian composers.

The development of music in Australia has been influenced by difficulties imposed by the size of the country and its small population. Australia has eight fully professional symphony orchestras. Six were established by the Australian Broadcasting Commission and two by the Elizabethan Theatre Trust. There is one in each State capital and two others permanently attached to the national ballet and opera companies. The A.B.C. orchestras tour in their respective States. The Sydney and Melbourne Symphony Orchestras have both toured abroad with acclaim.

Orchestral Music

The Australian Broadcasting Commission controls six symphony orchestras and a national training orchestra and organises about 750 concerts each year. This makes it one of the biggest musical entrepreneurs in the world. Since the inception of television, more than 50 operas have been produced in A.B.C. studios, and over 1,400 resident performers have been used. There is a constant flow of artists between Australia and other countries and the A.B.C. has played a significant part in encouraging this movement. The Commission has also been responsible for bringing to Australia internationally renowned orchestras. For further details of the Australian Broadcasting Commission see pages 416-18.

Chamber Music

Musica Viva Australia organises tours in Australia by overseas chamber music ensembles of international repute. It is a non-profit making voluntary organisation with over 3,500 members in all States and has a small paid administrative staff. The society also assists Australian chamber music groups to tour overseas and it has been responsible for helping many Australian groups reach international standards.

In addition to Federal Government assistance through the Australia Council, Musica Viva Australia has received aid from the State Governments of New South Wales and Victoria. It has also received some assistance from private and corporate donations.

Film

Australian Film Commission

The Australian Film Commission, established by the Australian Film Commission Act 1975, assists Australian film and television producers with funds and services for the production, distribution and exhibition of Australian films and television programs within Australia and abroad.

In July 1975 the Commission subsumed the activities of the Australian Film Development Corporation and Film Australia, the official film production agency for Commonwealth Government departments and instrumentalities.

In June 1976 the Government decided, as a further step in the rationalisation of Government film, radio, television and audio-visual activities, that the Commission should become responsible for the Australia Council's film, radio and television functions.

The Commission distributes theatrical, non-theatrical film and television productions in Australia and overseas through its representatives at Australian official posts. Non-theatrical distribution in Australia is arranged with State film distribution agencies and through the National Library of Australia.

Between sixty and seventy films are produced annually by the Film Australia Branch with translations into as many as twenty-six languages.

These films deal with matters of national interest to Australia and are designed to illustrate or interpret aspects of Australia or of the life and activities of the Australian people.

In 1974-75 Film Australia produced 64 new films comprising 143 reels (each of 10 minutes duration) and translated 170 films consisting of 203 reels into other languages.

Film and Television School

The Film and Television School was established as an independent statutory authority by Act of Parliament in 1973 and is governed by a fifteen member Council.

The School's principal activities are:

Full-time program—a three year full-time course providing professional training for creative positions in the film and television industry and for work with film and television in education.

Open programs—provides, on an Australia-wide basis, training courses of shorter duration including workshops, seminars, public lectures and refresher courses for people involved in the film makers and video specialists in the audio-visual communications field.

Training assistance and grants-in-aid—the school administers grants-in-aid to suitably qualified people who may benefit from study, experience or training within Australia or overseas.

Other activities—the School conducts programs to assess employment opportunities for graduates, industry training needs, student research activities and maintains an extensive collection of film and television library materials.

In June 1976, as a step towards rationalisation of Government film, radio, television and audio visual production activities, it was decided that the School should become responsible for training in radio and audio visual communications.

Film Censorship

The Federal Government's film censorship powers under the Customs Act extend only to imported films and imported advertising matter. Under that Act the Customs (Cinematograph Films) Regulations provide for the appointment of a nine-member Film Censorship Board whose function is to register films and approve advertising matter unless they fall into certain defined categories. Importers may appeal against decisions of the Film Censorship Board to the Films Board of Review.

The Attorney-General's Department is responsible for film censorship and all States have agreed that the Federal Boards should be the censorship authorities for the purpose of the State Acts.

Thirty-five mm feature films: In 1975 916 feature films (including 18 Australian films) totalling 1,472 hours running time were examined. Thirty-one feature films were rejected and 25 were cut. There were 21 appeals of which 3 were upheld and 18 dismissed. Of the 916 features, 153 were classified For General Exhibition ('G'), 200 Not Recommended for Children ('N.R.C.'), 231 For Mature Audiences ('M'), and 194 For Restricted Exhibition ('R'). One hundred and seven were registered subject to special conditions.

The principal suppliers were United States of America (249 films), Italy (112 films), Greece (96 films), United Kingdom (80 films) and Hong Kong (63 films).

While the 'M', 'N.R.C.' and 'G' classifications are advisory, persons between the ages of 2 and 18 (6 and 18 in New South Wales and Victoria) are excluded by law from seeing 'R' films.

Sixteen mm feature films: Excluding those imported for television use, 151 feature films (including 19 Australian films) totalling 236 hours were examined.

Television films: In 1975, 10,996 films for use on television were examined. These consisted of 7,197 sixteen mm films (totalling 4,455 hours) and 3,799 videotapes (2,136 hours). The principal suppliers were the United States (8,753 films) and United Kingdom (2,006 films). Of the total imports 164 films were cut and 39 were classified as unsuitable for television.

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Art

The Visual Arts Board

The Visual Arts Board of the Australia Council, which is the Commonwealth Government's advisor on matters pertaining to the visual arts, is the body responsible for the promotion of excellence in the visual and plastic arts throughout Australia.

In co-operation with the Department of Foreign Affairs, the Board arranges exhibitions of Australian art to tour overseas, and also arranges Australian participation at an official level in international art competitions. Exhibitions of important international art tour Australia under the auspices of the Visual Arts Board, often in association with the Australian Gallery Directors' Council. Art prizes. A number of valuable art awards are offered regularly, including the Archibald Prize for portraiture, the Wynne, Sulman, Blake and Rubenstein Prizes and the annual Britannica awards. Business houses also award prizes and sponsor travelling exhibitions.

The Australian National Gallery

The foundation stone for the Australian National Gallery on the shores of Lake Burley Griffin in Canberra, was laid by the Prime Minister on 7 November 1973. The Gallery building is due for completion in 1980. It is 23,000 square metres in area which includes fourteen exhibition galleries taking up 30 per cent of the floor space. The remainder will accommodate theatres and a theatrette, an education section, a library, a conservation laboratory, administrative and workshop areas and stores.

The collection will include Australian fine and minor works of all periods, international modern fine and minor arts, graphic arts, ethnic art of Black Africa and the Pacific Basin, Asia and the Far Eastern Art, films, photography, theatre and fashion arts and a collection of masterpieces or outstanding works of art as they are available. Since Federation more than 2,000 Australian works have been acquired. 1971-72 saw the acquisition of the first group of "international" works of art.

The Australian National Gallery Interim Council was established in September 1974 with the authority to purchase works of art on its own initiative within the budgetary limit imposed by Parliament. With the proclamation of the *National Gallery Act* 1975 in June 1976, the Interim Council ceased operation and the first Council of the Australian National Gallery was appointed to conduct the Affairs of the Australian National Gallery, which is now a Statutory Authority.

Other galleries

Other important art collections are housed in the Australian War Memorial and the public galleries in all State capitals and many of the larger country centres. As well as these galleries there are many municipal and private trust institutions, and university and private collections. Some descriptive detail of the major art galleries in Australia is given on pages 547-9 of Year Book No. 55 and in the State Year Books.

Crafts

The importance of crafts in Australia has been influenced by the findings of the Federal Government's Committee of Enquiry into the Crafts in Australia (1975). The Crafts Board of the Australia Council (formed in 1973) is concerned with the promotion of excellence and understanding of crafts in the community. It has a comprehensive exhibitions program supporting a wide range of craft exhibitions both in Australia and overseas. The Board is anxious to widen opportunities for education and training in the crafts and has introduced direct support under a training program and a craftsman-in-residence scheme.

Under its grants program the Board funds organisations for equipment purchases, workshops, exhibitions, publications, films, and in some cases administrative expenses. It makes grants to individuals for workshop establishment and development, study and research, master craftsman/trainee scheme, and special grants for research and travel.

The Crafts Board financially supports and collaborates with the Crafts Council of Australia, the national organisation of the State and Territory Craft Associations.

Museums

In each State there is at least one major State-run museum. There are also many smaller museums owned by municipal councils, district and historical societies, private trusts and private individuals. The two major national museums in the Australian Capital Territory are the Australian War Memorial and the Australian Institute of Anatomy.

Some descriptive detail concerning the more important institutions is given on pages 547-9 of Year Book No. 55 and in the State Year Books.

Literature

The Literature Board

From the founding of the Australian Council for the Arts, (now the Australia Council), an effort was made through the Literature Board to substantially increase financial assistance to the writing profession. Assistance has increased from \$340,000 in 1972-73 to \$1,591,800 in 1974-75. Support for creative writers is given through fellowships varying in duration from six months to three years. Writers are also assisted by special grants for research and travel expenses. Other types of grants administered by the Literature Board, include assistance to publishers, literary organisations, seminars, visiting speakers, writers' workshops, conferences, poetry readings and pilot schemes for the promotion of creative Australian writing.

National Literature Board of Review

The National Literature Board of Review was established in 1968, following Commonwealth-State agreement, to achieve uniformity in the administration of laws relating to blasphemous, indecent or obscene publications of prima facie literary, artistic or scientific merit. In terms of the agreement the Board is established under the Customs (National Literature Board of Review) Regulations. Appropriate Ministers of any State may, under the Agreement, refer locally published or distributed works to the Board for advice. Subject to retention of final responsibility by each Minister it is the intention of the governments concerned not to act against a publication of merit which the Board advises is suitable for distribution in Australia.

Book publishing

Statistics of book publishing are compiled and published by the National Library.

The table below shows the number of books and pamphlets (including leaflets), published in Australia in 1973, 1974 and 1975 and received by the National Library to December 1975, classified by State or Territory of publication and by class of publisher.

AUSTRALIAN BOOKS AND PAMPHLETS PUBLISHED BY YEAR OF PUBLICATION

(Source: Australian National Bibliography, National Library of Australia)

| | | | | | Number | of titles(a) | |
|-------------------------|--------|--------|--------|------|--------|--------------|-------|
| | | | | | 1973 | 1974 | 1975 |
| State or Territory- | | | | | | | |
| New South Wales | | | | | 1,679 | 1,406 | 603 |
| Victoria | | | | | 1,136 | 1,093 | 489 |
| Queensland . | | | | | 322 | 275 | 118 |
| South Australia . | | | | | 463 | 423 | 194 |
| Western Australia | | | | | 338 | 242 | 73 |
| Tasmania | | | | | 109 | 68 | 17 |
| Northern Territory | | | | | 52 | 35 | 1 |
| Australian Capital T | errito | гу | | | 980 | 883 | 276 |
| Papua New Guinea | | | • | | 238 | 75 | 5 |
| Total | | | • | | 5,317 | 4,500 | 1,776 |
| Publisher- | | | | | | | |
| Commercial . | | | | | 1,798 | 1,848 | 1,219 |
| Commonwealth Gov | ernm | ent | | | 943 | 826 | 238 |
| State Government | | | | | 775 | 698 | 136 |
| Local government | | | | | 45 | 15 | 1 |
| Society, institution, o | compa | any, p | rivate | | 1,756 | 1,113 | 182 |
| Total | | | | | 5,317 | 4,500 | 1,776 |

⁽a) Received by the National Library to December 1975.

Libraries

An account of the establishment, growth and functions of the National, Commonwealth, and State Libraries is given on pages 533-538 of Year Book No. 55.

Australian Government libraries

National Library of Australia, Canberra. The National Library maintains and develops a national collection of library material, representative of all the major countries of the world, and it is also responsible for assembling a comprehensive collection of library material relating to Australia and

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the Australian people. In fulfilment of the latter statutory function it seeks to preserve books, periodicals, newspapers, government publications, pictures, prints, manuscripts, maps, moving picture films, music scores, sound recordings and other recorded material whether in writing or some other form. Under the deposit provisions of the *Copyright Act* 1968, a copy of all library material published in Australia is delivered to the National Library. The Library has also been enriched by the acquisition of such notable collections as the Petherick collection of 16,500 items in 1911, the Cook manuscripts in 1923, the Cumpston collection on Public Health in Australia in 1936, the Mathews ornithological collection in 1940, the Rex Nan Kivell collection of 16,000 items of Australian and Pacific interest including original paintings, prints, manuscripts, and printed material in 1959, and the Ferguson collection of Australiana, acquired in 1970. The Library maintains a permanent exhibition of paintings, prints, and other historical material selected from its various collections.

In association with the State Library of New South Wales, the Library is engaged on a microfilming project to copy original records relating to Australia which are held in Great Britain and other overseas countries. The computer produced Australian National Bibliography which appears weekly, monthly, four monthly and annually, lists books published in Australia and books dealing wholly or substantially with Australian subjects or written by Australian authors. The publications of the Australian governments, included in Australian National Bibliography, are also listed quarterly and annually in Australian Government Publications. A select list of authoritative Australian books of reference and research value is published annually in Australian Books. A similar list of serials is published in successive editions under the title Current Australian Serials. The Library's Australian Public Affairs Information Service, published monthly with annual cumulations, is the major periodical index to Australia's political, economic, social and cultural life. Australian Maps has been issued quarterly from 1968 with a 10 year cumulation for the period 1961–1973 and annual cumulations from 1974.

The provision of central cataloguing services is an important function of the National Library aimed at achieving cataloguing economies on a national scale. Established in 1967, the Australian Card Service makes available catalogue cards for titles listed in Australian National Bibliography. Since 1970 cards for overseas books have been available from the Overseas Card Service. Australian libraries with access to computer facilities can order machine-readable records for Australian and overseas books through the Australian MARC Record Service. The Library also operates the Australian Cataloguing in Publication Program whereby, as a result of the co-operation of many trade and academic publishers, books published in Australia are catalogued in advance of publication and the cataloguing data printed in the books. These data also appear as preliminary entries in Australian National Bibliography, the Australian MARC Record Service and the Australian Card Service.

Co-operative bibliographical activity includes recording, in a series of union catalogues, the holdings of the major Australian libraries. The national union catalogue of monographs, maintained in card form, was commenced in 1960 and since then all the larger, and an increasing number of smaller libraries have reported their monograph accessions to the National Library. This catalogue is being published on microfilm, so duplicate copies can be held in major research and academic libraries in Australia, Papua New Guinea and New Zealand. Access is thus decentralise and speeded. The second major published union catalogue is the continually updated Serials in Australian Libraries, Social Sciences and Humanities, which complements another catalogue, Scientific Serials in Australian Libraries, published by the Commonwealth Scientific and Industrial Research Organization. Other union catalogues maintained and/or published by the National Library cover manuscripts, newspapers, music and oriental language material. All are described in the Guide to the National Union Catalogue of Australia which the Library periodically re-issues.

The Library has since 1969 operated a number of automated data bases which provide computer produced bibliographies of recent and current material to users either in printed form or on-line. It also provides access through international links to data bases operated elsewhere. Over 40 data bases are now accessible to Australian users through the National Library.

The National Library acts as a central library of documentary and educational films. Its lending collection of approximately 17,000 films contains both Australian and overseas material on a wide range of topics, whilst its historical collection constitutes the major holding of Australian film production since its beginning in 1896. Additions to the film lending collection are recorded in *Film Acquisitions* published quarterly, with annual cumulations.

The National Library's collections of Australian and overseas material contain over 1,625,792 volumes, 27,400 paintings, drawings and prints, 191,607 photographs, 134,112 reels of microfilm, 914,561 microfiche pieces, 268,824 microprint/microcard pieces, 2,370 metres of manuscripts, 18,153,000 metres moving picture film, 125,000 stills, 822,070 maps and aerial photographs, 27,256

music scores, 220,285 sound recordings and tapes, as well as 1,682 oral history tapes. It also has 3,400,000 data records used for producing published bibliographies and current awareness services in the bio-medical fields.

Patent Office Library. The Library of the Australian Patent Office, Canberra, contains approximately 17,500 books and a wide variety of periodicals and other literature relating to pure and applied science, industrial technology and the industrial property (patent, trade mark and design) laws and practice of most countries. Patent specifications of inventions are received from the principal countries of the world; present holdings are over 14,500,000. Indexes include a microfilm of a classified index to 3,000,000 U.S.A. patents and translations of abstracts of U.S.S.R. patents.

Commonwealth Scientific and Industrial Research Organization. The Central Library was brought into the newly formed CSIRO Central Information, Library and Editorial Section at the end of 1973. Its holdings cover the pure and applied sciences. In addition to the Central Library located in East Melbourne, each of the Divisions has specialised collections. The Library maintains a union catalogue of the holdings of all CSIRO libraries, and maintains the constantly updated Scientific Serials in Australian Libraries. With the Information Service, it publishes the monthly CSIRO Abstracts and Australian Science Index, and directories such as Australian Scientific Societies and Professional Associations and Scientific and Technical Research Centres in Australia.

The Information Service provides a question-and-answer service and operates the CSIRO Selective Dissemination of Information (SDI) System.

The Australian War Memorial Library, Canberra. In the War Memorial library are housed the documentary and pictorial records of Australia's fighting services in wars in which they have participated. The printed records section contains over 70,000 volumes, a large collection of military maps, newscuttings and newspapers, sound recordings, war posters, and postage stamps. The collection of official war photographs covering the 1914–18, 1939–45 and Korean wars numbers over 250,000, and a collection of official motion picture film depicts Australia at war. Adequate facilities exist for public research and requests for information are met where practicable.

The Australian Parliamentary Library. The Library's special function is to provide an information and research service to the Commonwealth Parliament. The two main sections are the Legislative Research Service and the Legislative Reference Service. The Research Service comprises six groups staffed by subject specialists who prepare analyses and interpretations of specific issues with which the Parliament is or may be concerned. The Reference Service staffed by Librarians answers questions and provides information. The library collection is concentrated on topical material, supported by a wide collection of standard references; it totals 40,000 titles, including 8,500 serial titles. The library publishes the Australian Parliamentary Handbook, which is a standard reference work, occasional annotated reading lists and, in alternate fortnights, Index to Current Information and Select Lists of Acquisitions.

Other Commonwealth Government libraries. Most Commonwealth Government authorities have specialised collections in their own fields and in addition draw largely on the National Library.

Library services in the Territories. The Northern Territory Library Service maintains five centres in the Territory; at Darwin, Nightcliff, Alice Springs, Tennant Creek and Katherine. At 30 June 1974, stocks totalled 67,124 volumes.

The National Library, through its Extension Services Section, conducts the Canberra Public Library Service to residents of the Australian Capital Territory. At 30 June 1975, 456,037 volumes were held.

State libraries

Most municipal councils in the States have libraries funded largely by State governments. A detailed description of State libraries is given on pages 685-690 of Year Book No. 59 and in each State year book.

Children's libraries and school libraries

Children's libraries exist in all States, usually as branches or extensions of State or municipal libraries. Further details of children's libraries and school libraries are given on pages 689 and 690 of Year Book No. 59.

University and college libraries

Since 1957 when the Commonwealth Government inaugurated a comprehensive program of university expansion, there has been notable development of university libraries, and similar development is now taking place in colleges of advanced education. Some current information on university libraries is given in the ABS annual publication *University Statistics—Part 2: Staff and Libraries* (13.8).

ARCHIVES 1019

Archives

Australian Archives

An account of the development of the Commonwealth Archives Office, renamed Australian Archives from 7 March 1974, and a detailed description of its functions appear on pages 543-4 of Year Book No. 55. Australian Archives functions as a central agency for the control of records created by the Commonwealth Government which are no longer required in the day-to-day business of government. At 30 June 1975 the total holdings of Australian Archives throughout Australia amounted to 210,000 shelf metres of records, including 80,000 metres of permanent material, such as files, manuscripts, registers, cards, books, maps, plans, models, paintings, films, photographs, microfilms, recordings and tapes. Australian Archives regulates access to all Commonwealth Government records, whether in its custody or held by departments, in accordance with the Government's access rules.

In 1971, the 50-year closed access period was reduced to 30 years. In January 1972 it was announced that the 30-year rule would apply to Cabinet papers also, with accelerated release of both Cabinet and departmental records created prior to 1 January 1946 to allow study of the Second World War as a whole.

Australian Archives provides an advisory service to inquirers, both official and public. During 1974-75, 700 official reference inquiries were received and 300,000 items lent to government departments. Some 600 research inquiries were also received. Extension services, promoting the use of archives in the field of education, and displaying material of interest for public exhibition, are envisaged. These facilities will be greatly improved when the National Archives building for the National Capital is erected.

The headquarters of Australian Archives is in Canberra, and there are branches in Sydney, Melbourne, Brisbane, Adelaide, Perth, Darwin, Hobart and Townsville. Australian Archives maintains liaison with similar organisations in overseas countries and is a national member of the International Council on Archives, established under the auspices of UNESCO.

State government archives

State government archives, dating from the beginning of European settlement in 1788, are held, in the case of New South Wales, Tasmania and Victoria, by archives offices established in 1961, 1965 and 1973 respectively, and, in other States, by the archives sections of State libraries.

Australian National University Archives of Business and Labour

The Australian National University Archives was established in 1954 when the records of the Australian Agricultural Company were acquired, and in 1959 its collecting activities were expanded to include records of employer and employee organisations. The aim is to gather primary source material to support advanced research within the university in economic history, history and political science. Records of over 100 businesses (153 deposits) and over 100 employer and employee organisations (242 deposits) are held.

The University Archives include deposits which have been microfilmed and pamphlet collections of interest to research workers in political history. In addition an archival program for the University's own records is being developed with the ultimate aim of creating a central University Archives.

Business Archives Council of Australia

The Business Archives Council of Australia works for the preservation of business records and promotes the writing of business history. The Council itself does not collect business records. The main collecting centres are the Archives of the Australian National University, the University of New England and University of Melbourne. The Australian National University and the University of Melbourne have strong collections covering a wide range of business activity, and are respectively notable for records of trade unions and mining companies. The University of New England concentrates on rural industries. The Archives of Wollongong University concentrates on collecting business and trade union records of the Wollongong region.

Other Australian archives

The Mitchell Library has been acquiring manuscript material since the early years of this century. More recently, the National Library, State libraries, some archives offices, a few public libraries and historical societies, the Australian Academy of Science, and the Australian War Memorial (which is also the archival authority for the custody and preservation of operational records of the armed services) have assembled important collections of private papers. Ecclesiastical archives have been set up by some of the churches. Some firms have established their own archives services and the Business Archives Council plays a co-ordinating role. State and local historical societies help to preserve regional, local and private historical material.

Botanical and zoological gardens

In addition to the zoological gardens referred to in the following paragraphs there are numerous privately owned zoos and sanctuaries, many of them at tourist resorts, which maintain collections of Australian flora and fauna. There are also various national parks, forests, reserves, etc., dedicated for public use, which are preserved largely in their natural condition. More detailed information is given in each State year book.

New South Wales: The Sydney Botanic Gardens are situated on the shores of Farm Cove, Sydney Harbour. They occupy 27 hectares and contain a large collection of flowering plants, shrubs and trees as well as hothouses of orchids and ferns.

The Zoological Gardens at Taronga Park, on the northern side of Sydney Harbour are administered by the Zoological Parks Board and occupy about 30 hectares including an aquarium. In 1974-75 paid admissions to the grounds were 849,130. The receipts of the zoological department amounted to \$1,157,112 in 1974-75 and expenditure was \$1,452,498. Exhibits at 30 June 1975 comprised 902 mammals, 1,628 birds, 288 reptiles and 819 invertebrates and fish.

An open range zoo, the Western Plains Zoo, is being constructed by the Board at Dubbo in Western New South Wales.

Victoria: The main botanical gardens in the State are the Royal Botanic Gardens, an area of 36 hectares within 1.6 kilometres of the centre of the City of Melbourne, containing over 12,000 species of plants, of which there are some 30,000 individual specimens. Many species of native birds breed on islands in lakes within the gardens. In October 1970, an extension was made to the Royal Botanic Gardens by the purchase of 160 hectares at Cranbourne on Mornington Peninsula for purposes of a Botanic Gardens and Research Institute devoted to the growing, display and study of Australian native plants.

The Zoological Gardens in Royal Park contain a wide selection of animals, birds and reptiles. A wild life sanctuary is also maintained at Healesville.

Queensland: Botanical gardens have been established in Brisbane and in several other cities. The Brisbane Botanic Gardens occupy approximately 18 hectares on the banks of the Brisbane River in the central city area and are noted for their collections of palms, tropical trees and shrubs, and succulents; they contain over 8,000 species.

Initial development has started on a new botanic gardens in the foothills of Mount Coot-tha, about 5 kilometres from central Brisbane. The area being developed is approximately 75 hectares.

South Australia: The Adelaide Botanic Garden covers 20 hectares and contains collections of Australian and exotic plants from low rainfall and sub-tropical regions. In glasshouses are collections of tropical, ornamental and economic plants. Special collections include cacti and succulents, bromeliads, and begonias. An up-to-date comprehensive botanical and horticultural library is maintained. The State Herbarium, established in 1952, contains about 250,000 specimens. Blackwood and Mount Lofty also have important plant collections.

The Zoological Gardens, opened in 1883, have an area of approximately 8 hectares, and contain a fine collection of animals, reptiles and birds.

Western Australia: A botanical garden and arboretum which contain approximately 1,200 species of native Western Australia plants and trees, are established in Kings Park, a reserve of about 400 hectares close to the centre of Perth.

The Zoological Gardens of 18 hectares at South Perth specialises in the collection of Australian and particularly Western Australian fauna.

Tasmania: The Royal Tasmanian Botanical Gardens adjoining Government House of the Queen's Domain, contain a fine collection of exotic trees and shrubs and a small ayiary.

The Launceston City Council keeps a small collection of animals and birds at City Park and there is a private wildlife sanctuary and zoo at Punch Bowl in Launceston.

Northern Territory: The Darwin Botanical Gardens occupy 30 hectares and feature 12 hectares of tropical plants of both native and overseas origin. Two hectares are used for an amphitheatre and contain a number of native and exotic plants. The Gardens are controlled by the Corporation of the City of Darwin. The Gardens were extensively damaged by Cyclone Tracy in December 1974 and, along with extensive planting of Palm Species, every effort will be made to restore and improve the Gardens.

Australian Capital Territory: The Canberra Botanic Gardens, a 40 hectare site on the lower slopes of Black Mountain have been under development since 1950. The Gardens, comprising Australian native plants, were officially opened in 1970.

FITNESS 1021

The Tidbinbilla Nature Reserve covers 4,650 hectares of the Upper Tidbinbilla Valley, about 40 kilometres from Canberra. It was declared a Nature Reserve under the Public Parks Ordinance in 1971. Attendances have risen from 42,700 in 1967 to approximately 200,000 in 1975.

The Nature Reserve at Jervis Bay consists of 4,420 hectares of coastal area. Although the area has been managed as a reserve over a number of years, it was only officially declared a reserve on 7 October 1971.

RECREATION

The Department of Environment, Housing and Community Development was established in December 1975 and assumed responsibility among other things, for co-ordinating such aspects of leisure as community recreation, fitness, sports development, and youth affairs.

A number of State governments have also established departments with special responsibilities for recreation. Some local government authorities are now employing recreation workers who are responsible for planning the use of recreation facilities, and for devising programs of community recreation.

Community recreation

The former Department of Tourism and Recreation, as part of its concern to encourage community involvement in recreation planning, assisted with the preparation of a number of regional plans. These plans comprised an inventory of existing and potential recreation resources, programs and leadership resources, and identification of future needs.

Other projects in the field of Community recreation have included examination of the educational needs of, and the demand for, recreation workers; detailed studies of aspects of community centre development and community requirements; and an examination of the possible integration of community centres with facilities at schools.

Capital assistance program

The Department administers a capital assistance program to meet some of the immediate needs for recreation facilities in the community. Any project which increases the range of leisure opportunities within a local area has been eligible for a grant under this program. Although development of specialist facilities is not excluded, emphasis is placed on facilities which encourage mass participation, e.g. multi-purpose facilities within which sporting, cultural and social programs can be pursued.

In 1974-75, an amount of \$14.4 million was allocated under this program. A total of 386 projects for the development of single and multi-purpose sporting and recreation complexes were approved for assistance.

Education for recreation workers

A study which was commissioned to examine policies for the future education of recreation workers in Australia was completed in 1973. It recommended the establishment of courses in recreation at diploma and graduate levels at colleges of advanced education. Three graduate diploma and four associate diploma courses have now commenced.

This study was extended to examine the demand for recreation workers. It showed that 754 recreation workers were employed throughout Australia at the end of 1973. By the end of 1978, a further 2,560 workers will need to be trained.

Voluntary workers

A program to assess the effectiveness of training voluntary recreation workers, and to identify their future needs is being conducted in co-operation with State governments departments. The program aims to educate voluntary recreation leaders in each State. The Department's advisory service is intended to provide voluntary workers with information, ideas and advice to enable them to develop more effective programs, and to exchange information about their activities. In addition the Department provides some assistance with innovative programs for special groups such as the handicapped, the aged, young people and women.

Fitness

National fitness movement

The Commonwealth Government initiated the National Fitness movement as a war time measure to improve the standard of fitness of Australian youth. Under the National Fitness Act 1941, the Government allocates funds to the various State National Fitness Councils to assist with the administrative costs of national fitness activities catering for the total community.

In 1974-75, Commonwealth Government assistance to the National Fitness movement, through the National Fitness Fund Trust Account, was \$850,000. Of this amount \$600,000 was directed to cover the operational expenditure of State Councils and \$150,000 was provided as capital assistance on a \$1 for \$2 subsidy basis to improve national fitness facilities. An amount of \$150,000 was also provided to develop sports training facilities at national fitness camps. In 1975-76, an amount of \$600,000 was allocated to assist with operational expenses.

Sports development

Sports assistance program

During 1974-75, national sporting organisations received more than \$969,000 in Commonwealth Government assistance through a sports assistance program. The program subsidises the organisation of and participation in national sporting events and international events both within Australia and overseas. Coaching programs, administrative improvements and selected projects of a cultural exchange nature have also received support.

The construction of sports facilities was also assisted by grants under the capital assistance program.

Life saving movement

Since 1951, the Commonwealth Government has provided grants for both the Royal Life Saving Society and the Surf Life Saving Association of Australia. In 1974–75, the Government provided \$50,000 to the Royal Life Saving Society for administrative purposes and \$280,000 to the Surf Life Saving Association. Of this amount, \$144,000 was provided on a dollar for dollar subsidy basis for the purchase of rescue equipment at club level, \$66,000 for administrative purposes, \$60,000 for the purchase of power rescue craft, and \$10,000 to assist needy clubs.

Australian Sports Council

In August 1974, the Commonwealth Government established an Australian Sports Council, consisting of 14 members, to give expert advice on the development of sport and physical recreation. The Council last met in September 1975 and its future is currently under review.

Youth affairs

Most youth activities and programs in Australia are provided by voluntary youth organisations, many of which are organised nationally. The Commonwealth Government provides financial assistance to these national organisations to enable them to better serve young people and the community in general. In 1974-75, \$250,000 was provided for national youth organisations.

In co-operation with all State government departments responsible for youth matters, the former Department of Tourism and Recreation conducted 'Youth Involvement Programs' in all States and the A.C.T. during 1974–75. These programs were designed to encourage young people to become creatively involved with their own communities.

The Department is also responsible for the operation of the Commonwealth Youth Program in Australia.

Tourism

The Department of Tourism and Recreation was established in 1972 and was responsible for the formulation of national policies to assist the development of tourism in Australia and to promote greater domestic travel within Australia. It aimed to attract more overseas visitors to Australia and to encourage them to travel more extensively in Australia by the development of Australia's tourist areas and tourist infrastructure. It is also the aim of the Department to encourage the development of a range of accommodation facilities for travellers, with particular emphasis on low-cost accommodation, and to obtain accurate statistical information on all aspects of tourism and travel.

In 1974-75, Commonwealth Government grants of \$2,438,000 were provided for the development of certain types of uniquely Australian tourism projects. Additional assistance of \$118,000 was provided for allocation to Youth Hostel Associations and similar organisations providing low-cost accommodation, as well as for regional surveys of tourist areas. Since the Department of Tourism and Recreation was abolished in December 1975, the responsibility for overseas and domestic tourism has been with the Department of Industry and Commerce.

TOURISM 1023

Australian Tourist Commission

The Australian Tourist Commission was established in 1967 as a statutory body to encourage people from other countries to visit and travel within Australia. It has nine commissioners including representatives of the Commonwealth and State governments and the tourist industry. In 1975-76 its budget was \$4.04 million.

The Commission engages in a wide variety of marketing activities including consumer and trade advertising, industry seminars and familiarisation visits for travel agents, journalists and photographers. The Commission has its head office in Melbourne and branch offices in London, Frankfurt, New York, Los Angeles, Tokyo, Auckland and Sydney.

Tourist Accommodation

Census of Tourist Accommodation Establishments. A Census of Tourist Accommodation Establishments was conducted by the ABS in respect of the year ended 30 June 1974 to identify and measure the amount, type and location of tourist accommodation available throughout Australia. The Census was abandoned in the Northern Territory due to the effects of Cyclone Tracy.

There is no generally accepted definition of a tourist accommodation establishment. For the purposes of the Census, tourist accommodation establishments have been defined as (i) hotels, motels (licensed and unlicensed) and guest houses, which provide predominantly short-term (i.e. for periods of less than two months) accommodation available to the general public and which provide breakfast; (ii) caravan parks and, for the State of Queensland only, holiday flats which provide predominantly short-term accommodation available to the general public.

The scope of the Census covered, in general, tourist accommodation establishments which were in operation at 30 June 1974. Excluded from the Census were establishments in which the number of guest rooms usually occupied by short-term guests was less than 40 per cent of the total number of guest rooms usually occupied and also, establishments which have provision for tourist accommodation but which had no takings from accommodation for the Census period. For a more detailed description of the Census see Census of Tourist Accommodation Establishments, Australia and Australian Capital Territory, Year Ended 30 June 1974 (11.50) and Census of Tourist Accommodation Establishments, 1973–74 published by the Deputy Commonwealth Statistician in each State.

CENSUS OF TOURIST ACCOMMODATION ESTABLISHMENTS, AUSTRALIA(a) 1973-74 SUMMARY OF OPERATIONS

| | 37 7 | | | Capacity | Capacity | | | | | |
|---|--|------------------------|---|---------------------------|--------------|---------|-----------------------------------|--|--|--|
| | Number of estab- | Number | *** | Number of | f guest room | ns | | | | |
| | lishments operating a: 30 June 1974 | employed at 30 June | Wages and salaries paid \$'000 | With facilities (c) | Other | Total | Number of bed spaces (d) | | | |
| | BY | TYPE OF | ESTABLIS | SHMENT | | | | | | |
| Licensed hotels | 4,111 | 68,441 | 217,076 | 22,435 | 35,649 | 58,084 | 107,473 | | | |
| Licensed motels | 480 | 11,514 | 33,688 | 19,066 | 757 | 19,823 | 54,854 | | | |
| Unlicensed motels. Private hotels and gues | 1,534 | 10,049 | 21,351 | .27,526 | 810 | 28,336 | 78,168 | | | |
| houses | 467 | 2,386 | 4,822 | 1,270 | 10,909 | 12,179 | 22,022 | | | |
| Total | 6,592 | 92,390 | 276,938 | 70,297 | 48,125 | 118,422 | 262,519 | | | |
| | ВҮ | SIZE OF | ESTABLIS | HMENT | | | | | | |
| 1- 15 guest rooms. | 4,236 | 43,419 | 115,646 | 13,613 | 22,131 | 35,744 | 73,510 | | | |
| 16- 25 guest rooms | 1,243 | 15,444 | 44,682 | 13,658 | 10,787 | 24,445 | 53,845 | | | |
| 26- 50 guest rooms | 801 | 15,754 | 48,821 | 19,738 | 7,693 | 27,431 | 65,424 | | | |
| 51-100 guest rooms | 227 | 7,031 | 25,598 | 10,470 | 4,639 | 15,109 | 34,566 | | | |
| 101 guest rooms and over | r 85 | 10,742 | 42,191 | 12,818 | 2,875 | 15,693 | 35,174 | | | |
| Total | 6,592 | 92,390 | 276,938 | 70,297 | 48,125 | 118,422 | 262,519 | | | |
| | | В | STATE | | | | | | | |
| New South Wales . | 2,277 | 28,211 | 83,020 | 26,831 | 17,491 | 44,322 | 99,581 | | | |
| Victoria | 1,397 | 22,518 | 64,390 | 14,285 | 9,238 | 23,523 | 52,633 | | | |
| Queensland | 1,443 | 16,985 | 54,642 | 13,613 | 9,782 | 23,395 | 52,603 | | | |
| South Australia . | 627 | 10,474 | 30,998 | 5,483 | 4,327 | 9,810 | 21,849 | | | |
| Western Australia . | . 566 | 9,848 | 30,382 | 6,854 | 5,453 | 12,307 | 24,010 | | | |
| Tasmania | . 282 | 4,354 | 13,504 | 3,231 | 1,834 | 5,065 | 11,843 | | | |
| Australia (d) . | 6,592 | 92,390 | 276,938 | 70,297 | 48,125 | 118,422 | 262,519 | | | |
| Australian Capital | 41 | 1.617 | 6.160 | 1 744 | 150 | 1 004 | 4.016 | | | |
| Territory . | . 41 | 1,617 | 6,160 | 1,744 | 150 | 1,894 | 4,916 | | | |

For footnotes see end of table.

SUMMARY OF OPERATIONS-continued

| | Gross takings (\$'00 | 0) | | | |
|--------------------------|----------------------|------------|------------------------|--------|-----------|
| | Accommodation | Meals | Beer, wine and spirits | Other | Total |
| | BY TYPE | OF ESTABLI | SHMENT | | |
| Licensed hotels . | . 82,137 | 114,344 | 827,493 | 57,571 | 1,081,540 |
| Licensed motels . | . 63,753 | 36,407 | 14,258 | 3,735 | 118,152 |
| Unlicensed motels . | . 69,816 | 17,126 | • • • | 2,377 | 89,318 |
| Private hotels and gues | st | • | | , | |
| houses | . 11,782 | 4,092 | •• | 989 | 16,864 |
| Total | . 227,490 | 171,957 | 841,753 | 64,673 | 1,305,873 |
| | BY SIZE | OF ESTABLI | SHMENT | | |
| 1-115 guest rooms | . 37,145 | 53,541 | 564,581 | 40,774 | 696,041 |
| 16- 25 guest rooms | . 40,169 | 26,043 | 131,771 | 10,191 | 208,176 |
| 26- 50 guest rooms | 60,319 | 36,584 | 88,822 | 7,041 | 192,766 |
| 51–100 guest rooms | 36,127 | 20,250 | 28,751 | 2,489 | 87,617 |
| 101 guest rooms and over | | 35,540 | 27,828 | 4,178 | 121,273 |
| Total · · | . 227,490 | 171,957 | 841,753 | 64,673 | 1,305,873 |
| | | BY STATE | | | |
| New South Wales · | . 89.523 | 42,994 | 250,139 | 19,666 | 402,321 |
| Victoria | 45,634 | 48,109 | 202,550 | 9,779 | 306,072 |
| Queensland | 43,263 | 31,308 | 181,124 | 14,474 | 270,170 |
| South Australia · | 18,390 | 21,056 | 91,215 | 6,864 | 137,525 |
| *** | 20,234 | 18,749 | 85,519 | 11,541 | 136,043 |
| Tasmania | . 10,446 | 9,744 | 31,203 | 2,352 | 53,745 |
| Australia(a) . | . 227,490 | 171,957 | 841,753 | 64,673 | 1,305,873 |
| Territory . | . 7,043 | 4,498 | 8,228 | 812 | 20,579 |

⁽a) Excludes Australian Capital Territory and Northern Territory.

(b) Includes working proprietors and part-time staff. (c) Guest rooms containing private bath or shower and toilet. (d) Refers to the maximum number of guests that could have been accommodated at 30 June 1974. Divans normally used as beds were included; double beds were counted as two bed spaces.

Surveys of Tourist Accommodation Establishments. Quarterly accommodation surveys were commenced in the September Quarter 1975 and data published from these surveys include available capacity, room occupancy, bed occupancy, takings from accommodation and employment.

The main purpose of the survey of tourist accommodation establishments is to measure the utilisation of available tourist accommodation.

The scope and coverage of the survey is similar to that of the Census except for the omission of caravan parks and holiday flats. For a more detailed description of the surveys see the quarterly publication Tourist Accommodation (11.48)

NUMBER, CAPACITY, OCCUPANCY RATES, TAKINGS FROM ACCOMMODATION AND EMPLOYMENT, AUSTRALIA(a)

| | | | | | | L.i an | | |
|----------------------|------|---|-----|-----|-------------------------------------|-----------------|-----------------------|---------|
| | | | | | icensed hotels, th facilities(b) | Motels, etc.(c) | without facilities | Total |
| | | | | | NUMBER | | | |
| December Quarter 19 | 75 | | | | | | | |
| Establishments . | | | | | 914 | 1,926 | 2,899 | 5,739 |
| Guest rooms . | | | | | 24,643 | 47.239 | 39,055 | 110,937 |
| Bed spaces . | | | | | 53,488 | 133,420 | 65,404 | 252,312 |
| March Quarter 1976- | _ | | | | , | , | , | • |
| Establishments . | | | | _ | 911 | 1,926 | 2,551 | 5,388 |
| Guest rooms . | - | • | - | | 24,292 | 47,785 | 33,947 | 106,024 |
| Bed spaces . | • | Ċ | : | • | 53,186 | 134,178 | 57,323 | 244.687 |
| June Quarter 1976— | • | • | • | • | 33,100 | 151,110 | 57,525 | , |
| Establishments . | | | | | 927 | 1.973 | 2,502 | 5,402 |
| Guest rooms . | • | • | • | • | 24,595 | 48,630 | 33,451 | 106,676 |
| Bed spaces . | • | • | • | • | 53,915 | 136,822 | 56,681 | 247,418 |
| September Quarter 19 | 76 | • | • | • | 33,71,3 | 130,022 | 50,001 | 247,410 |
| Establishments . | , 0— | | | | 931 | 1.995 | 2,476 | 5,402 |
| Guest rooms . | • | • | • | • | 24,614 | 49,214 | 33,283 | 107,111 |
| Bed spaces . | • | • | • | • | 54,110 | 137,641 | 56,580 | 248,331 |
| Bed spaces . | • | • | | • | 34,110 | 137,641 | J0,380 | |
| | | R | ООМ | OCC | UPANCY RA | ATES (per cent) | | |
| 1975—October . | | | | | 55.9 | 62.9 | 32.7 | 50.7 |
| November . | | | | | 53.0 | 58.2 | 31.3 | 47.6 |
| December . | | | | | 43.5 | 53.9 | 36.1 | 43.2 |
| 1976—January . | | | | | 54.9 | 69.3 | 35.2 | 55.1 |
| February . | | | - | | 52.8 | 56.4 | 30.6 | 47.3 |
| March . | | | • | | 53.8 | 58.1 | 30.4 | 48.2 |
| April | • | · | | - | 52.2 | 60.2 | 31.2 | 49.2 |
| May . | • | • | • | • | 52.9 | 63.3 | 31.0 | 50.7 |
| June | • | • | • | • | 47.1 | 53.3 | 28.4 | 44.0 |
| July | • | · | • | • | 46.3 | 53.0 | 27.9 | 43.6 |
| August . | • | • | • | • | 55.0 | 63.4 | 31.4 | 51.5 |
| September . | • | • | • | • | 56.3 | 64.2 | 31.6 | 52.3 |
| september . | • | • | • | • | 20.3 | 04.2 | 31.0 | 2. 2 ر |

For footnotes see end of table.

NUMBER, CAPACITY, OCCUPANCY RATES, TAKINGS FROM ACCOMMODATION AND EMPLOYMENT, AUSTRALIA(a)—continued

| | | | | Lio | ensed hotels | Į. | ensed hotels, private hotels guest houses without | | |
|--|----------------------------|---------------------------------|------|-------------|--|--|---|--|--|
| | | | | | | Motels, etc.(c) | facilities | Tota l | |
| | | В | ED (| OCCUPA | NCY RAT | ES(d) (per cent) | | | |
| 1975—October . | <u> </u> | | | | 38.2 | 38.1 | 25 2 | 34.8 | |
| November . | | | | | 35.4 | 34.4 | 23.7 | 31.9 | |
| December . | | • | • | • | 31.2 | 35.2 | 23.4 | 31.3 | |
| 1976—January . | | | | | 42.8 | 52.4 | 29.3 | 44.9 | |
| February . | | | | | 35.3 | 34.4 | 23.1 | 31.9 | |
| March . | | | | | 35.3 | 34.7 | 22.8 | 32.0 | |
| April | | | | | 36.5 | 38.5 | 24.4 | 34.8 | |
| May | | | | | 36.8 | 42.1 | 24.2 | 36.8 | |
| June | | | | | 30.7 | 31.8 | 21.4 | 29.2 | |
| July | | | | | 30.7 | 32.0 | 20.9 | 29.2 | |
| August . | | | | | 38.5 | 41.9 | 24.7 | 37.2 | |
| September . | • | • | • | • | 39.5 | 41.8 | 24.6 | 37.4 | |
| | | TAKI | NGS | FROM | ACCOMM | ODATION (\$'000 |)) | | |
| 1975—October . | - | | • | | 7,858 | 15,567 | 2,986 | 26,411 | |
| November . | | | | | 7,189 | 14,045 | 2,704 | 23,938 | |
| December . | | _ | | | 6,013 | 12 077 | A 550 | | |
| | | • | | • | 0,013 | 13,977 | 2,729 | 22,718 | |
| | | · | | | • | • | • | 22,718 | |
| 1976—January . | • | • | | • | 7,992 | 19,842 | 3,028 | 22,718 30,863 | |
| 1976—January . February . | | • | | • | 7,992 7,074 | 19,842 13,929 | 3,028 2,229 | 22,718 30,863 23,232 | |
| 1976—January . February . March . | • | : | • | · · · | 7,992 7,074 7,833 | 19,842 13,929 1 5 ,392 | 3,028 2,229 2,379 | 22,718 30,863 23,232 25,604 | |
| 1976—January . February . March . April . | : | | | · · | 7,992 7,074 7,833 7,531 | 19,842 13,929 15,392 16,255 | 3,028 2,229 2,379 2,514 | 22,718 30,863 23,232 25,604 26,300 | |
| 1976—January . February . March . | : | • | | | 7,992 7,074 7,833 | 19,842 13,929 1 5 ,392 | 3,028 2,229 2,379 2,514 2,528 | 22,718 30,863 | |
| 1976—January . February . March . April May June | : | | | | 7,992 7,074 7,833 7,531 7,928 6,610 | 19,842 13,929 15,392 16,255 17,945 14,171 | 3,028 2,229 2,379 2,514 2,528 2,172 | 22,718 30,863 23,232 25,604 26,300 28,400 22,952 | |
| 1976—January February March April May June July July . | | | | | 7,992 7,074 7,833 7,531 7,928 6,610 6,899 | 19,842 13,929 15,392 16,255 17,945 14,171 14,631 | 3,028 2,229 2,379 2,514 2,528 2,172 2,209 | 22,718 30,863 23,232 25,604 26,300 28,400 22,952 23,740 | |
| 1976—January . February . March . April May June | | | | | 7,992 7,074 7,833 7,531 7,928 6,610 | 19,842 13,929 15,392 16,255 17,945 14,171 | 3,028 2,229 2,379 2,514 2,528 2,172 | 22,718 30,863 23,232 25,604 26,300 28,400 22,952 | |
| 1976—January February March April May June July August . | : | | | | 7,992 7,074 7,833 7,531 7,928 6,610 6,899 8,525 | 19,842 13,929 15,392 16,255 17,945 14,171 14,631 18,570 18,340 | 3,028 2,229 2,379 2,514 2,528 2,172 2,209 2,642 | 22,718 30,863 23,232 25,604 26,300 28,400 22,952 23,740 29,738 | |
| 1976—January February March April May June July August . | : : : : : : | · · · · · · · | | EM | 7,992 7,074 7,833 7,531 7,928 6,610 6,899 8,525 8,594 | 19,842 13,929 15,392 16,255 17,945 14,171 14,631 18,570 18,340 | 3,028 2,229 2,379 2,514 2,528 2,172 2,209 2,642 2,598 | 22,718 30,863 23,232 25,604 26,300 28,400 22,952 23,740 29,738 29,531 | |
| 1976—January February March April May June July August September | : | | | EM | 7,992 7,074 7,833 7,531 7,928 6,610 6,899 8,525 8,594 PLOYMEN 32,794 | 19,842 13,929 15,392 16,255 17,945 14,171 14,631 18,570 18,340 T(e) | 3,028 2,229 2,379 2,514 2,528 2,172 2,209 2,642 2,598 | 22,718 30,863 23,232 25,604 26,300 28,400 22,952 23,740 29,738 29,531 | |
| 1976—January February March April May June July August September 31 December 1975 | : : : : : : | | | EM | 7,992 7,074 7,833 7,531 7,928 6,610 6,899 8,525 8,594 PLOYMEN | 19,842 13,929 15,392 16,255 17,945 14,171 14,631 18,570 18,340 | 3,028 2,229 2,379 2,514 2,528 2,172 2,209 2,642 2,598 | 22,718 30,863 23,232 25,604 26,300 28,400 22,952 23,740 29,738 29,531 | |

⁽a) Excludes Northern Territory. (b) Guest rooms containing private bath or shower and toilet. (c) Includes licensed or unlicensed motels, private hotels or guest houses with facilities. (d) Refers to the proportion of bed spaces occupied to the number of bed spaces available expressed as a percentage. (e) Includes working proprietors and part-

Summary information on foreign ownership and control of tourist accommodation establishments is shown in Chapter 11. More detailed statistics are available in *Foreign Ownership and Control of Tourist Accommodation Establishments*, 1973-74 (11.47).

TRAVEL

An article outlining the history and growth of travel and the structure of tourist organisations in Australia, prepared by the Australian National Travel Association, appeared in Year Book No. 52, pages 1158-84. The following pages contain statistics of internal travel and travel to and from Australia, together with some descriptive matter.

Internal travel

In 1973-74, the first national survey of the Australian travel market was undertaken. The survey showed that Australians took an average of two trips of at least one night duration away from home. Fifty per cent of these trips lasted two nights or less and approximately 85 per cent of trips were intra-State trips only. One quarter of all trips, and over one half of all trips classified as main holidays, were taken in December and January. Car travel was the means of transport for 86 per cent of all trips. Private house accommodation was used in over 40 per cent of trips, with hotels and motels accounting for a further 20 per cent.

Overseas travel

Statistics about travellers to and from Australia are classified in the first instance by the actual or intended length of stay in Australia or abroad; this classification distinguishes between permanent and temporary movement.

Statistics of permanent arrivals (immigrants) and permanent departures (emigrants) are shown in Chapter 7 Population.

Traveller statistics (overseas visitors and Australian residents)

Statistics of temporary arrivals and departures which are in the nature of travel statistics are included in this chapter. They comprise two main categories:

- (i) Short-term. Those who intend to stay or have stayed in Australia (overseas visitors) or overseas (Australian residents) for less than a year.
- (ii) Long-term. Those who intend to stay or have stayed in Australia (overseas visitors) or overseas (Australian residents) for a year or more, but not permanently. Before 1974, Australian residents travelling abroad were classified as long-term only if they spent at least 12 months in any one country.

Short-term movement excludes persons who arrive in and depart from Australia on the same ship's voyage or on the same flight (variously called direct transit or 'through' passengers) or who change flights without leaving the airport's transit area, passengers on pleasure cruises commencing and finishing in Australia (see page 1036), and all crew. However, it includes persons who pass through the Customs Barrier and declare the purpose of their visit to Australia to be 'in transit'. Short-term visitors are more numerous than long-term visitors and have come to be regarded as 'tourists' by many users of the statistics.

From October 1967 to December 1971, 276,885 United States troops came to Australia on rest and recreation leave. The last of them completed their leave in January 1972. For statistical purposes they were classified as short-term visitors travelling by air for holiday purposes and their country of residence and country of embarkation or disembarkation were shown as 'Asia—other'.

| | | | | Overseas | Visitors | | | Australian Residents | | | | | |
|--------------------------------------|---|--|------------|---|---|--|--|---|---|--|--|--|--|
| | | | Short-teri | n | Long-term | | Short-term | | Long-term | | | | |
| Year | | | | Arriving in Australia | Departing from Australia | Arriving in Australia | Departing from Australia | Departing from Australia | Returning to Australia | Departing from Australia | Returning to Australia | | |
| 1970 1971 1972 1973 1974 | : | | : | 416,128 432,393 426,403 472,124 532,683 | 431,039 450,022 441,320 481,901 515,378 | 31,194 30,500 26,559 27,370 26,984 | 18,727 21,433 24,251 21,506 24,401 | 352,526 413,917 504,519 638,141 769,650 | 351,929 412,598 490,962 620,842 752,218 | 64,215 67,699 66,853 64,964 66,228 | 42,099 47,782 54,278 65,021 63,320 | | |

TRAVELLER STATISTICS—SUMMARY, AUSTRALIA

In addition to the basic classification of travellers shown above, certain other characteristics are ascertained. These characteristics are: sex, age, marital status, country of citizenship, country of birth, occupation, intended and actual length of stay, purpose of journey, mode of transport, country of residence, country of embarkation or disembarkation, State of residence and State of embarkation or disembarkation.

The categories shown in the previous table are cross-classified by various characteristics listed above and resulting statistics are shown in considerable detail in the quarterly and annual bulletins Overseas Arrivals and Departures (4.1 and 4.23). Certain unpublished information is available on request. Selected traveller statistics are shown in the following tables.

Short-term travel is subject to marked seasonal variation, December being the peak month for the arrival of visitors and the departure of Australian residents.

OVERSEAS VISITORS AND AUSTRALIAN RESIDENTS: SHORT-TERM ARRIVALS AND DEPARTURES BY MONTH OF ARRIVAL OR DEPARTURE AND MODE OF TRANSPORT AUSTRALIA, 1974

| | (| Iversea. | s visitors | | | | Australian residents | | | | | | |
|---------------------------------|---|-------------------------|--------------------------------------|--------------------------------------|--------------------------|----------------------------|----------------------------|-------------------------|-----------------------------|--------------------------------------|----------------------------------|----------------------------|----------------------------|
| | 7 | Arriving | | - | Departing | | | Departing | | | Returning | | |
| Month | | By sea | By air | Total | By sea | By air | Total | By sea | By air | Total | By sea | By air | Total |
| 16 | : | 1,679 1,376 1,418 | 42,368 44,725 43,917 | 44,047 46,101 45,335 | 1,322 1,527 1,165 | 56,803 43,776 44,127 | 58,125 45,303 45,292 | 3,443 5,140 3,614 | 52,237 35,964 56,164 | 55,680 41,104 59,778 | 2.844 2,297 2,065 | 92,157 59,352 46,706 | 95,001 61,649 48,771 |
| June . | | 1,617 986 978 | 39,662 37,562 31,903 | 41,279 38,548 32,881 | 1,300 1,238 740 | 40,583 44,715 31,698 | 41,883 45,953 32,438 | 4,747 5,005 3,490 | 76,522 70,330 64,578 | 81,269 75,335 68,068 | 2,377 1,807 3,216 | 42,158 56,854 52,544 | 44,535 58,661 55,760 |
| July August September | | 1,052 266 711 | 36,551 44,102 36,932 44,827 | 37,603 44,368 37,643 45,608 | 720 173 561 503 | 31,660 42,910 39,850 | 32,380 43,083 40,411 | 2,822 1,232 1,828 | 53,278 78,263 48,994 | 56,100 79,495 50,822 45,806 | 2,703 1,137 2,428 2,063 | 53,315 66,916 84,297 | 56,018 68,053 86,725 |
| October November December | : | 781 1,343 2,496 | 49,524 65,907 | 50,867 68,403 | 812 651 | 40,170 46,689 41,685 | 40,673 47,501 42,336 | 1,901 2,101 2,745 | 43,905 48,657 102,690 | 50,758 105,435 | 2,675 3,060 | 72,342 54,352 42,553 | 74,405 57,027 45,613 |
| Total | | 14,703 | 517,980 | 532,683 | 10,712 | 504,666 | 515,378 | 38,068 | 731,582 | 769,650 | 28,672 | 723,546 | 752,218 |

The following tables show the stated purpose of journey and intended length of stay abroad of Australian residents departing temporarily and the stated purpose of journey and intended length of stay in Australia of overseas visitors arriving.

AUSTRALIAN RESIDENTS DEPARTING TEMPORARILY BY STATED PURPOSE OF JOURNEY AND INTENDED LENGTH OF STAY, 1974 (Persons)

| | Stated purpose of journey | | | | | | | | | | | |
|------------------------------|---------------------------|-----------------|----------|--|-----------------------|---------|-----------------|----------------|-------------------------------|---------|--|--|
| Intended length of stay | In transit | Con- vention | Business | Accom- panying business traveller | Visiting relatives | Holiday | Employ- ment | Edu- cation | Other and not stated | Total | | |
| Short-term movement— | | | | | | | | | | | | |
| Under 1 week | | 916 | 15,914 | 804 | 2,310 | 10,827 | 817 | 183 | 2,745 | 34,516 | | |
| 1 week and under 2 weeks. | | 3,531 | 16,962 | | 5,678 | 63,747 | 931 | 1,696 | 5,280 | 99,492 | | |
| 2 weeks and under 3 weeks | | 3,066 | 14,888 | 1,835 | 10,219 | 117,205 | 1,430 | 1,249 | 7,551 | 157,443 | | |
| 3 weeks and under 1 month | | 2,009 | 8,083 | 873 | 12,119 | 48,246 | 319 | 352 | 4,447 | 76,448 | | |
| 1 month and under 2 months | | 472 | 18,085 | 2,352 | 32,567 | 57,811 | 1,300 | 587 | 6,999 | 120,173 | | |
| 2 months and under 3 months | | 201 | 8,279 | 1,810 | 25,296 | 35,739 | 861 | 292 | 4,510 | 76,988 | | |
| 3 months and under 6 months | | 134 | 4,785 | 1,362 | 28,277 | 47,624 | 1,959 | 686 | 5,708 | 90,535 | | |
| 6 months and under 9 months | | 45 | 1,936 | 1,123 | 16,664 | 41,952 | 2,773 | 510 | 5,535 | 70,538 | | |
| 9 months and under 12 months | | 10 | 1,261 | 1,440 | 4,535 | 11,249 | 3,776 | 980 | 3,187 | 26,438 | | |
| Indefinite, not stated | | 89 | 1,200 | 581 | 2,690 | 8,309 | 720 | 203 | 3,287 | 17,079 | | |
| Total short-term move- | | | | | - | - | | | | | | |
| ment | | 10,473 | 91,393 | 13,847 | 140,355 | 442,709 | 14,886 | 6,738 | 49,249 | 769,650 | | |
| Long-term movement— | | - | | - | | - | • | | - | - | | |
| 12 months and over | | | 3,501 | 5,801 | 7,382 | 19,092 | 13,946 | 2,495 | 14,011 | 66,228 | | |
| Total Australian resi- | | | | | | • | • | | | | | |
| dents departing tem- | | | | | | | | | | | | |
| porarily | | 10,473 | 94,894 | 19,648 | 147,737 | 461,801 | 28,832 | 9,233 | 63,260 | 835,878 | | |

OVERSEAS VISITORS ARRIVING, BY STATED PURPOSE OF JOURNEY AND INTENDED LENGTH OF STAY, 1974

(Persons)

| | Stated p | ourpose | of journ | ey | | | | | | |
|----------------------------------|---------------|----------------------|---------------|--|---------------------------------|---------|----------------------|----------------|-------------------------------|-----------|
| Intended length of stay | In transit | Con- ven- tion | Busi- ness | Accom- panying busi- ness travel- ler | Visit- ing rela- tives | Holi- | Em- ploy- ment | Edu- cation | Other and not stated | Total |
| Short-term movement— | | | | | | | | | | |
| Under I week | . 73,093 | 931 | 22,292 | 1,226 | 5,664 | 35,997 | 1,258 | 37 | 5,203 | 145,701 |
| 1 | 3,512 | 3,275 | 21,801 | 1,934 | | | 536 | 189 | 4,524 | 85,644 |
| 2 weeks and under 3 weeks . | 1,388 | 1,969 | 11,674 | 1,049 | 14,498 | | | 330 | 3,679 | 66,443 |
| 3 weeks and under 1 month . | . 173 | 532 | 3,189 | 420 | 14,726 | | 76 | 238 | 1,741 | 37,762 |
| 1 month and under 2 months . | | | 6,676 | 736 | 29,154 | | 434 | 440 | 4,219 | 66,467 |
| 2 months and under 3 months . | | | 2,299 | 392 | | | 360 | 581 | 2,290 | 28,886 |
| 3 months and under 6 months . | | | 2,422 | 576 | 23,138 | 15,442 | 2,394 | 3,950 | 4,114 | 52,036 |
| 6 months and under 9 months. | | | 956 | 607 | 9,136 | 5,593 | 3,034 | 768 | 1,623 | 21,717 |
| 9 months and under 12 months. | | | 639 | 590 | 1,918 | 2,963 | 5,164 | 4,486 | 1,943 | 17,703 |
| TudeCuita not stated | | •• | 956 | 298 | 2,200 | 2,605 | 1,839 | 313 | 2,113 | 10,324 |
| Total short-term movement. | 78,166 | 6,707 | 72,904 | 7,828 | 123,096 | 185,886 | 15,315 | 11,332 | 31,449 | 532,683 |
| Long-term movement—12 months and | . | | 2,066 | 2,327 | 1,949 | 2.215 | 10,437 | 2,496 | 5,494 | 26,984 |
| | • • • | • • • | _,,,,, | -, | -, | _,~ | , | _, ., 0 | -, ., . | ,,,,,,,,, |
| Total overseas visitors arriving | 78,166 | 6.707 | 74,970 | 10.155 | 125.045 | 188,101 | 25.752 | 13.828 | 36.943 | 559,667 |

The average intended length of stay abroad of Australian residents departing in 1974 for short-term visits abroad was 71 days. The average intended length of stay in Australia by short-term visitors from overseas was 39 days. Of course, statistics for Australian residents refer to their total time away from Australia; for overseas visitors they refer only to the Australian portions of their trips.

In both cases, the majority of travellers are on holiday. A significantly higher proportion of overseas visitors are in Australia for the purpose of education, reflecting the number of students coming to Australia from South-East Asia.

Information about the countries of residence of short-term visitors, the countries of intended stay of Australian residents travelling overseas in the short-term, and intended lengths of stay, are of particular interest to the tourist industry.

OVERSEAS TRAVEL

OVERSEAS VISITORS ARRIVING BY COUNTRY OF RESIDENCE AND INTENDED LENGTH OF STAY, AND AUSTRALIAN RESIDENTS DEPARTING BY COUNTRY OF INTENDED STAY AND INTENDED LENGTH OF STAY: AUSTRALIA, 1974

| | Oversed | as visitors | arriving- | -intended | length of | stay | Austral | ian reside | nts depart | ing—inter | nded lengi | h of stay |
|--|---|--|--|---|---|--|--|---|---|---|---|--|
| Country of residence (visitors) and country of intended stay (residents) | Under 1 week | and under 1 | I month and under 3 months | 3 months and under 12 months | Indefin- ite, not stated etc. | Total | Under I week | 1 week and under 1 month | I month and under 3 months | 3 months and under 12 months | Indefin- ite, not stated etc. | Total |
| Africa— South Africa Other | 1,363 1,044 | 1,117 486 | 993 876 | 564 621 | 30 42 | 4,067 3,069 | 30 40 | 653 583 | 1,380 1,817 | 1,182 976 | 84 100 | 3,329 3,516 |
| Total, Africa | 2,407 | 1,603 | 1,869 | 1,185 | 72 | 7,136 | 70 | 1,236 | 3,197 | 2,158 | 184 | 6,845 |
| America— Canada United States of America Other | 2,631 25,937 946 | 6,827 34,753 996 | 4,101 9,390 532 | 3,354 5,486 555 | 203 807 145 | 17,116 76,373 3,174 | 9i i 30 | 1,830 23,513 1,190 | 3,075 19,552 2,074 | 1,910 7,208 1,909 | 191 1,040 113 | 7,006 52,224 5 316 |
| Total, America . | 29,514 | 42,576 | 14,023 | 9,395 | 1,155 | 96,663 | 941 | 26,533 | 24,701 | 11,027 | 1,344 | 64,546 |
| Asia— Hong Kong India Indonesia Israel Israel Japan Lebanon Malaysia Philippines Portuguese Timor Singapore Thailand Turkey (in Asia and | 2,021 708 1,743 125 11,294 18 1,653 592 417 1,754 506 | 2,981 831 1,256 176 9,436 112 2,101 558 92 2,820 748 | 2,012 375 1,417 550 1,614 216 1,699 441 40 1,268 380 | 1,413 549 2,399 284 1,343 248 2,826 276 216 856 408 | 102 39 126 31 185 18 78 59 6 83 51 | 8,529 2,502 6,941 1,166 23,872 612 8,357 1,926 771 6,781 2,093 | 1,580 90 713 30 301 10 661 350 430 2,337 301 | 15,573 970 10,293 300 6,595 120 17,632 2,935 2,148 29,305 3,970 | 3,270 1,761 4,806 1,703 4,059 352 3,176 1,244 209 3,518 1 012 | 1,008 566 1,912 938 620 4,442 1,650 389 90 1,308 397 | 405 65 293 72 202 164 426 101 50 660 98 | 21,836 3,452 18,017 3,043 11,777 5,088 23,545 5,019 2,927 37,128 5,778 |
| Europe) . Other and unspecified . | 39 1 560 | 109 1 251 | 68 905 | 398 1 642 | · 37 | 651 5 530 | 10 81 | 50 3,673 | 371 2,592 | 1 922 1,471 | 85 185 | 2 438 8,002 |
| Total, Asia | 22,430 | 22,471 | 10,985 | 12,858 | 987 | 69,731 | 6,894 | 93,564 | 28,073 | 16,713 | 2,806 | 148,050 |
| Austria France Germany(a) Greece Hungary Italy Malta Netherlands Poland Spain Switzerland United Kingdom and | 359 1,471 2,745 497 33 1,021 14 1,851 33 456 1,420 | 257 1,026 2,617 498 164 1,085 44 1,137 176 227 911 | 240 750 2,513 500 116 1,376 2,161 157 127 884 | 414 495 2,332 2,636 260 3,111 300 2,161 431 152 546 | 15 54 184 153 12 191 10 63 31 52 54 | 1,285 3,796 10,391 4,284 585 6,784 485 7,373 828 1,014 3,815 | 50 10 131 10 10 10 20 40 | 110 561 1,300 420 40 1,472 70 740 60 120 463 | 1,197 1,766 6,273 2,593 733 8,728 671 4,700 851 900 1,730 | 1,213 1,598 5,559 16,463 878 23,177 3,286 4,541 1,676 2,120 1,149 | 59 86 307 637 44 768 92 178 49 114 82 | 2,579 4,011 13,439 20,163 1,705 34,276 4,129 10,169 2,636 3,274 3,464 |
| Ireland | 14,427 181 136 2,131 | 14,312 188 88 1,722 | 19,785 184 348 1,261 | 22,266 128 1,048 1,010 | 865 46 42 124 | 71,655 727 1,662 6,248 | 301 10 30 70 | 8,659 80 71 703 | 59,058 384 2,789 4,651 | 53,616 312 11,161 6,000 | 2,477 14 478 279 | 124,111 800 14,529 11,703 |
| Total, Europe . | 26,755 | 24,452 | 30,519 | 37,290 | 1,896 | 120,932 | 682 | 14,869 | 97,024 | 132,749 | 5,664 | 250,988 |
| Oceana— Fiji New Caledonia Papua New Guinea New Hebrides New Zealand Norfolk Island Other | 2,036 2,042 5,778 301 46,200 180 1,226 | 2 086 2,028 7,730 300 79,458 337 744 | 1,121 2,070 9,868 223 19,923 190 556 | 1,669 972 6,709 161 17,656 32 840 | 71 154 208 26 1,694 25 61 | 6,983 7,266 30,293 1,011 164,931 764 3,427 | 3,918 1,310 4,883 170 12,544 750 412 | 33,509 6,647 9,264 2,158 123,771 7,920 2,112 | 1,590 488 5,002 259 28,040 416 918 | 702 131 4,578 171 12,443 182 456 | 814 225 452 78 3,578 234 108 | 40,533 8,801 24,179 2,836 180,376 9,502 4,006 |
| Total, Oceania . | 57,763 | 92,683 | 33,951 | 28,039 | 2,239 | 214,675 | 23,987 | 185,381 | 36,713 | 18,663 | 5,489 | 270,233 |
| Total, Other | 6,812 | 6,064 | 4,006 | 5,521 | 1,143 | 23,546 | 1,942 | 11,800 | 7,453 | 6,201 | 1,592 | 28,988 |
| Total | • | 189,849 | 95,353 | 94,288 | • | 532,683 | , | • | 197,161 | • | 17,079 | 769,650 |

⁽a) Comprises the German Democratic Republic and the Federal Republic of Germany.

CULTURAL ACTIVITIES, RECREATION AND TRAVEL

AUSTRALIAN RESIDENTS DEPARTING TEMPORARILY BY OCCUPATION AND SEX: AUSTRALIA, 1974

| | Short-ter | m movemei | nt | Long-term movement | | | |
|--|-----------|-----------|----------|--------------------|---------|---------|--|
| Occupational group | Males | Females | Persons | Males | Females | Persons | |
| Professional, technical and related workers | 71,435 | 45,706 | 117,141 | 7,444 | 5,525 | 12,969 | |
| Administrative, executive, and managerial | | | | | | | |
| workers | 84,530 | 12,728 | 97,258 | 3,078 | 510 | 3,588 | |
| Clerical workers | 19,671 | 53,065 | 72,736 | 1,794 | 5,935 | 7,729 | |
| Sales workers | 18,624 | 10,121 | 28,745 | 1,085 | 578 | 1,663 | |
| Farmers, fishermen, hunters, timber getters, | , | • | • | • | | | |
| and related workers | 12,059 | 1,570 | 13,629 | 562 | 41 | 603 | |
| Miners, quarrymen, and related workers | 1,286 | 10 | 1,296 | 190 | | 190 | |
| Workers in transport and communication | 15,422 | 2,863 | 18,285 | 1,131 | 234 | 1,365 | |
| Tradesmen and production-process workers | 51,004 | 6,520 | 57,524 | 5,611 | 487 | 6,098 | |
| Labourers (a) | 17,534 | 942 | 18,476 | 1,901 | 46 | 1,947 | |
| Service (protective and other), sport, and | - 1,001 | | , | -,,,,, | | -2- | |
| recreation workers | 14,471 | 12,803 | 27,274 | 2,235 | 1,007 | 3,242 | |
| Occupation inadequately described or not | 2 1,172 | 12,000 | , | 2,255 | 1,007 | -, | |
| stated | 10,791 | 7,331 | 18,122 | 853 | 639 | 1,492 | |
| Persons not in the labour force— | 10,771 | 7,551 | 10,122 | 033 | 037 | 2, | |
| Children and students | 62,751 | 61,805 | 124,556 | 8,316 | 7,811 | 16,127 | |
| Other | 21,262 | 153,346 | 174,608 | 613 | 8,602 | 9,215 | |
| Other | 21,202 | 155,540 | 17-1,000 | 013 | 0,002 | 2,213 | |
| Total | 400,840 | 368,810 | 769,650 | 34,813 | 31,415 | 66,228 | |

⁽a) Labourers (so described) not elsewhere classified, and freight handlers, including waterside workers.

CHAPTER 30

THE TERRITORIES OF AUSTRALIA

The internal Territories of Australia are the Northern Territory and the Australian Capital Territory. External Territories under the control of Australia are: Norfolk Island; the Territory of Heard and McDonald Islands; the Australian Antarctic Territory; the Territory of Cocos (Keeling) Islands; and the Territory of Christmas Island. There is also the Territory of Ashmore and Cartier Islands, deemed to form part of the Northern Territory.

Information on all Territories except Ashmore and Cartier Islands is contained in the following pages, and details of the acquisition of all the Territories will be found on pages 5, 22, and 23 of Chapter 1. More detailed statistics and additional descriptive matter are to be found in the Annual Reports of the Administrations of the various Territories and in the Northern Territory Statistical Summary (1.6) and the Australian Capital Territory Statistical Summary (1.7) issued by this Bureau. Statistics for the Northern Territory and the Australian Capital Territory are also included in chapters dealing with particular subjects.

THE NORTHERN TERRITORY

General description

Area

Upon the extension of New South Wales westwards to the 129th east meridian in 1825, the Northern Territory was incorporated in that colony, but in 1863 it was annexed by Royal Letters Patent to the province of South Australia. With the adjacent islands, it was transferred to the Commonwealth on 1 January 1911. The total area is 1,346,200 square kilometres.

Legislation and administration

On 1 January 1911 the Territory was transferred from South Australia to the Commonwealth. The terms were outlined in Year Book No. 15, page 940.

The Northern Territory (Administration) Act 1910 provides for an Administrator, appointed by the Govenor-General, to administer the Territory on behalf of the Commonwealth Government.

In 1974 the Act was amended to provide for the establishment of a Legislative Assembly for the Northern Territory to make Ordinances for the peace, order and good government of the Northern Territory. The Assembly consists of 19 elected members including a Speaker elected by the members. The first meeting of the new Assembly was held on 20 November 1974. The Assembly replaces the Legislative Council for the Northern Territory, which held its last meeting on 26 September 1974, and consisted of 6 official members and 11 elected members with a President elected from among the elected members.

Ordinances passed by the Legislative Assembly are presented to the Administrator for assent. The Administrator is required by the Act to reserve Ordinances relating to certain matters, including Crown Lands and the Aboriginal inhabitants of the Territory, for the Governor-General's pleasure; others he may assent to, withhold assent from or return to the Legislative Assembly with recommended amendments. The Governor-General may, within six months, disallow any Ordinance assented to by the Administrator and, in respect of an Ordinance reserved for his pleasure, he may assent, withhold assent, withhold assent to part of the Ordinance and assent to the remainder or recommend to the Administrator any amendments to the laws of the Territory that he considers desirable arising out of his consideration of the Ordinance. Ordinances passed by the Legislative Assembly, whether assented to or withheld partially or in full from assent, are to be laid before each House of Parliament as soon as practicable.

The Act also provides for an Administrator's Council to advise the Administrator on any matter referred to it, either by the Administrator or in accordance with the provisions of any Ordinance of the Territory. The Administrator's Council consists of the Administrator and 5 members of the Assembly.

The Territory elects one member to the House of Representatives and, since 1975, two Senators to the Senate.

There is a Commonwealth Department of the Northern Territory which carries out the day to day administration of the Territory together with other Commonwealth Departments—Attorney-General's, Health, Education and Aboriginal Affairs—and Territory Departments of the Administrator and the Legislative Assembly.

While the Legislative Assembly has legislative powers it does not have executive powers. The Government's objective is progressively to confer executive responsibility on the Legislative Assembly to advance the Territory to Statehood.

Following the devastation of Darwin by Cyclone Tracy on Christmas Day 1974, Australia's greatest natural disaster, the Darwin Reconstruction Commission was established by the Commonwealth Government for the purpose of rebuilding Darwin.

The Northern Territory has two Local Government Councils; the Corporation of the City of Darwin, established in 1957, and the Corporation of the Municipality of Alice Springs, established in 1971. The Darwin Corporation consists of the Mayor and 10 Aldermen and the Alice Springs Corporation consists of the Mayor and 8 Aldermen. Town Management Boards are established in Katherine and Tennant Creek, each consisting of 5 elected members and 4 members appointed by the Administrator. The function of each Board is to advise the Administrator on local matters.

The remaining centres of the Territory are administered under mining leases, by Aboriginal community councils, by church missions or directly by the Department of the Northern Territory,

Nhulunbuy township is administered under lease by the Nhulunbuy Corporation, a subsidiary company of Nabalco Pty Ltd, which conducts a large bauxite mining operation on Gove Peninsula. The Company employs a Town Administrator and the Government is represented by a Departmental Officer. A similar arrangement applies to mining operations on Groote Eylandt.

Physical geography

The Territory is within the torrid zone, with the exception of a strip about 300 kilometres wide which lies south of the Tropic of Capricorn.

The low flat coastline seldom reaches a height of 30 metres. Sandy beaches and mud flats, thickly fringed with mangroves, prevail. Sandstone, marl and laterite form the occasional cliffy headlands. The coastline of 6,200 kilometres is indented by bays and inlets and intersected by numerous rivers, many of which are navigable for considerable distances from their estuaries. The only practicable deep-water port for general use, however, is Darwin.

Inland the country generally is devoid of conspicuous landmarks. From the coast there is a general rise southwards to the vicinity of the seventeenth or eighteenth parallel of south latitude, where the higher lands form the watershed between the rivers that flow northwards to the sea and those that form the scanty supply for the interior system. Towards the centre of the continent the land over a wide area is of considerable elevation, and there are several mountain ranges, generally with an east and west trend.

Climate, fauna and flora

There are two main climatic divisions, the wet season, November to April, and the dry season, May to October, with uniform and regular changes of weather. Nearly all the rainfall occurs in the summer months.

The ordinary types of native Australian fauna inhabit the Territory. As elsewhere on the continent, the higher *Theria* are rare, but marsupials, birds, crocodiles, fresh-water tortoises, snakes (mostly non-venomous), and frogs abound. There are many varieties of fresh-water fish and littoral Mollusca. Butterflies and beetles are strongly represented. The termite is a pest which is capable of serious damage to wooden buildings unless special preventive measures are taken. Mosquitoes and sandflies are very troublesome in the "top end" particularly in the wet season. Most types of native fauna are protected and buffaloes exist in large herds on the northern coastal plains.

The vegetation is north Australian in type but a number of forms belong to the Malayan and Oceanic regions. The climate and generally poor soils associated with it give rise to tropical savannah vegetation, with the size and volume of woody material present being closely related to rainfall and the quality of the forests decreasing strikingly as one proceeds inland from the northern coastline. In the north, cypress pine which is termite resistant, ironwood, bloodwood and paperbark timbers are cut and milled for local building purposes. Further inland, particularly on the Barkly Tableland and parts of the Victoria River district, there are better grazing grasses and some shrubs, while the wide belt of sandy plain between the Barkly Tableland and the ranges in the Alice Springs area, carries mainly spinifex grass and low scrub. The plains of the Alice Springs district carry chiefly an acacia scrub known as mulga, spinifex and other sparse grasses. The principal families represented in the interior are *Gramineae*, *Chenopodiaceae*, *Compositae* and *Mimosaceae*.

Population

See also the chapters Population and Vital Statistics.

The population of the Northern Territory at the census of 30 June 1971, was 48,627 males, 37,763 females, 86,390 persons. These figures include an Aboriginal and Torres Strait Islander population of 11,774 males, 11,607 females, 23,381 persons. A total of 4,004 Aborigines were enumerated in urban areas of the Territory, the remainder were enumerated in areas classified as rural. While some Aborigines choose to live on reserves, a large area of reserved land (about 244,000 square kilometres) has been maintained to provide economic resources from which the Aborigines may benefit either directly or from royalty payments.

Aboriginal Affairs

Policy

Policy statements in recent years have been moving away from specific definitions such as 'assimilation' to a more open-ended approach in which the underlying principle is now self-management and self-sufficiency incorporating Aboriginal involvement in all stages of the development and implementation of policy.

In general, the Government aim is to remove legal, social and economic discrimination against Aborigines, and to provide opportunities to restore their lost power of self-determination in these areas.

Legal status

As Australian citizens Aborigines are entitled to equality before the law. The Department of Aboriginal Affairs and other Commonwealth government departments and agencies, for the purpose of administering various programs designed to benefit Aborigines, define an 'Aboriginal' or 'Torres Strait Islander' as a person of Aboriginal or Islander descent who identifies as an Aboriginal or Islander and is accepted as such by the community with which he is associated.

Special schools for Aborigines

The special schools for Aborigines were combined with the community schools in February 1973.

Land

There are 353 separate Aboriginal reserves in Australia, comprising about 541,300 square kilometres of which 244,000 are located in the Northern Territory.

Early in 1973 Mr Justice A. Woodward was appointed as sole Commissioner to enquire into Aboriginal land rights in the Northern Territory and to advise the Commonwealth Government. The final report of the Commission, issued in May 1974, recommends that land be vested in Aboriginal communities in fee simple and makes recommendations on a number of related matters.

At present, royalties from the mineral and timber activities carried on within reserves are paid into the Aborigines Benefits Trust Fund, established in 1952. Loans or grants are made from the fund to any Aboriginal or group of Aborigines in the Northern Territory on the advice of a special advisory committee which has an all Aboriginal membership. Moneys in the fund are used for a wide variety of purposes which benefit the Aboriginal people.

Aboriginal communities are also being assisted to purchase land off reserves, and a number of properties have been bought with Government assistance. An Aboriginal land fund has been established for this purpose. The nature of the fund and its use will alter slightly if legislation giving effect to Aboriginal land rights is passed by Commonwealth Parliament.

Community services and affairs

Government policy in the administration of Aboriginal affairs is to work as far as possible through existing State and Commonwealth Government departments and instrumentalities, and the Department of Aboriginal Affairs has primarily a policy planning and co-ordinating role. Responsibility for a variety of community services on Aboriginal reserves and in Aboriginal communities in the Northern Territory is being transferred from the Northern Territory Division of the Department to other appropriate authorities. The Departments of Education, Health, and Northern Territory have assumed full responsibility for education, health, and social welfare services respectively in Aboriginal communities in the Northern Territory, and for a number of other functions such as town services on reserves.

Special programs for Aborigines

To meet the needs of Aboriginal people throughout Australia the Commonwealth Government has developed, on a national basis, a variety of programs in fields such as health, education, housing, employment and vocational training, special works, regional projects and economic enterprises.

Attention is being given to changing the institutional character of Aboriginal reserve communities. Supervisory staff are being replaced by community development advisors, and managerial and technical staff are being replaced by consultants and workers employed by the communities themselves. Programs are designed to encourage and strenghten the capacity of Aborigines to manage their own affairs, to increase their economic independence, and to reduce existing social and other handicaps facing them. The Government is also able to support and encourage Aboriginal initiative by responding directly to individual communities which wish to develop their own social or economic projects. Grants may be made to communities to enable them to improve community facilities and amenities, and to help them to establish economic enterprises.

The Government policy is to provide Aboriginal primary school children in Aboriginal communities with education in their own languages as far as practicable. Bilingual education programs were initiated in five schools in Northern Territory Aboriginal communities in 1973 as a first step in implementing the new policy.

Production

See also the chapters dealing with particular subjects.

Land tenure

Nearly 60 per cent of the total area of land in the Northern Territory is held under various forms of lease or licence which are described hereunder. The remainder comprises unoccupied and unreserved areas (22.98 per cent), reserved (19.75 per cent) and freehold (0.06 per cent).

The Commonwealth Government has for some time been conducting a comprehensive review of pre-existing policies affecting land tenures and the interests of Aborigines in land holding. An enquiry into Aboriginal land rights was held by Mr Justice Woodward, who made a report to the Commonwealth Government in April 1974. Legislation arising from the report is to go before Parliament in 1976.

A Commission of Inquiry into Urban Land Tenures was also established, under the chairmanship of Mr Justice Else-Mitchell, and in November 1973 a first report was made. Various government Departments have studied the Report, and further submissions have been made to the Commission. A second and final report is expected to be presented to Commonwealth Parliament in 1976.

The various forms of lease or licence of lands are as follows:

Pastoral leases —granted for periods not exceeding 50 years.

Agricultural leases —granted in perpetuity over areas generally limited to a maximum of

40,470 hectares approximately.

Leases of town lands -granted in perpetuity.

Special purposes leases—granted for a term of years or in perpetuity, for purposes other than

pastoral, agricultural or mining, or private residential purposes within

Church lands leases —granted for church purposes at a nominal rent in perpetuity.

Miscellaneous leases —granted for any prescribed or approved purpose, for a term of years or

in perpetuity.

Grazing licences —granted to graze stock on Crown Lands for periods not exceeding one

year.

Occupation licences -- granted for manufacturing, industrial or any prescribed purposes for

periods not exceeding five years.

Miscellaneous licences —granted for periods not exceeding one year.

With the exception of leases within the Darwin Town Area or a municipality, which are granted at nominal rentals (10 cents per annum if and when demanded), the foregoing leases and licences are granted at specified rentals or rentals fixed by the Administrator and subject to reappraisement, and under various prescribed or specified conditions.

Pastoral and agricultural industries

Beef cattle production is the major rural industry in the Northern Territory. The beef industry has been characterised throughout its history by a slow rate of expansion due to the poor quality of native pastures and unsatisfactory market outlets. Developments in pasture improvement and the use of adapted Zebu cross-cattle in the northern areas, the opening in 1963 of the export abattoirs in Katherine and Darwin, better disease control coupled with better management techniques, and various incentives and research programs introduced by the Government to encourage developments of the pastoral industry, have resulting in an increase in turnoff figures and value of production during the late 1960's and early 1970's.

In the last 2 years markets for beef have been poor with prices lower than in previous years. Coupled with this, the closure of the Darwin abattoirs, has caused a depreciation in the buoyancy of the beef industry in the Northern Territory. Northern Territory cattle have also been affected by restricted overseas markets. The value of production and the numbers of cattle turned-off, have consequently fallen. This reduction of the market and favourable seasonal factors have resulted in a marked increase in the cattle population.

The expected increase in the commercial production of grain sorghum has so far occurred on only a few properties. Grain sorghum requires arable land and a considerable capital input. Sorghum is still at an early stage of testing; nevertheless, it promises to provide a more capital intensive primary industry.

Animal production has continued to be augmented by the buffalo meat industry. Interest in domestication has been developed on the sub-coastal plains properties and will need to continue if this industry is to be further advanced. Through the development of more intensive cattle production, utilising improved pastures, tropical legume seed production has received considerable impetus. Both the pig and poultry industries, unaffected by overseas marketing, have continued to expand.

Increasing private investment in rural development is leading to greater pressures upon the Government for extension services and research. The work of C.S.I.R.O. and the Department of the Northern Territory research stations and experimental farms is providing the basis for continuing rural development. As new knowledge is being gathered it will be followed by testing on farm scale. The research institutions in existence in the Northern Territory are as follows.

Arid Zone Research Institute—Aitce Springs. With the completion of the new research laboratory in 1967 more emphasis is being placed on arid zone research in the 'Centre' and the need to conserve valuable pastoral lands while achieving maximum productivity. Fields of work at the Institute include animal health, agriculture, soil conservation, botany, animal production and range management.

Coastal Plains Research Station. The station has 3 main roles, one as a regional station examining suitable pasture and animal production systems in the Coastal Plains/Darwin area, the second involving basic studies into breeding and breeds with wider implications and the third as the major centre for rice research. Its efforts have been largely devoted to the animal breeding investigations with some attention being paid to the development of improved pasture systems, including establishment, maintenance and the reaction to various grazing rates. Breeding trials are being conducted with Santa Gertrudis, Brahman and Africander cross-breds, and Shorthorns. Banteng cattle are being studied as a source of tropical blood for breeding cattle adaptable to Territory conditions and a small herd of cross-bred cattle has now been developed. Buffalo/Brahman comparison studies are also being undertaken.

Victoria River Experiment Station. This is the only Government Experiment Station in the rangelands of the Northern Territory. Work is being undertaken on genetic improvement of the local breed of Shorthorn cattle, evaluation of improved pastures, supplements, breed comparisons and range management studies.

Upper-Adelaide River Experiment Station. The station is mainly concerned with regional investigations of pasture and animal production for the Marrakai area including stocking rates on improved and native pastures, comparison studies of improved pastures and testing of new potential pastures, management of pastures on flood plains and feeding supplementation trials.

Berrimah Experiment Farm. The work of this farm has been mainly restricted to pasture and fodder crop investigations, plant introduction, sorghum breeding, fruit, vegetable and weed control trials and intensive animal studies.

Katherine Experiment Farm. This farm services the southern part of the Daly River Basin and has a larger component of cropping work than other stations. Work being conducted includes utilisation of Townsville stylo, pasture improvement and management, sorghum, peanut, guar, cowpea and bulrush millet trials and various aspects of cattle management.

Douglas-Daly Experiment Station. This station is concerned with developing animal production systems for the higher rainfall part of the Daly River Basin including evaluation of pastures under grazing/stocking rates, supplementary feeding, use of fertilisers, pasture establishment, and pasture/animal production trials.

Other research sites. Research and trials are also being conducted at selected sites on maize, soy-beans, sorghum, peanuts, Stylosanthes spp. and weed control.

NORTHERN TERRITORY: AREA AND PRODUCTION OF CROPS

| Crop | | | | | | 1970–71 | 1971–72 | 1972-73 | 1973–74 | 1974-75 |
|--------------------------------------|--------------|---|-----------|-----|------|---------------------|--------------|---------------|--------------|--------------|
| | | | | | | AREA(a) (hectares) | | | | |
| Fruit—Bananas | | | | | | (c) | 31 | 21 | 20 | 11 |
| Pineapples Other . | : | : | : | : | : | (c) 49 | 9 48 | 6 43 | 8 34 | (c) 21 |
| Total fruit | | | | | | 49 | 88 | 70 | 62 | 32 |
| Peanuts . | | | | • | | 23 | 40 | 13 | 23 | (c) |
| Sorghum for grain | | • | | | • | 1,309 | 5,638 160 | 11,032 170 | 3,990 182 | 4,235 131 |
| Vegetables for hum Other crops(b) | 1 a n | · | mpuo · | n . | • | 102 8 5 6 | 1,434 | 823 | 721 | 3,620 |
| Grand total | (a) | | | | | 2,339 | 7,360 | 12,108 | 4,978 | 8,018 |
| | | | | | 1 | PRODUCTION | ON | , · · · · · | | |
| Fruit—Bananas | | | | to | nnes | 170 | 228 | 242 | 274 | 138 |
| * * | | | | | ,, | (d) | 12 | 16 | 21 | 3 |
| Peanuts . | | | | | ** | 15 | 44 | 4 | 3 | |
| Sorghum (grain) | ٠ | • | • | • | ** | 1,525 | 13,806 | 17,041 | 6,674 | 6,784 |

⁽a) Excludes rice; details are not available for publication. (b) Principally fodder crops. (c) Not available for publication, included in Other crops. (d) Not available for publication.

NORTHERN TERRITORY: LIVESTOCK

| 31 M | arch | _ | | Horses | Cattle | Sheep | Pigs |
|------|------|---|---|---------|--------|-------|------|
| 1972 | | | • | (a) | 1,166 | 7 | 5 |
| 1973 | | | | (a) | 1,237 | 3 | 7 |
| 1974 | | | | (a) | 1,321 | 1 | 8 |
| 1975 | | | | (a) | 1,434 | 1 | 7 |
| 1976 | | | | 28 | 1,603 | 1 | 7 |

(a) Not collected.

Mining

During 1974-75 the mining industry continued to be the major contributor to the income of the Northern Territory. Mineral output was valued at \$80 million in 1972-73, at \$126 million in 1973-74 and at \$139 million in 1974-75.

The main minerals produced during 1974-75 were bauxite (including the production of alumina) on the Gove Peninsula, manganese from Groote Eylandt and gold, copper and bismuth from Tennant Creek. Production of iron ore ceased in December 1974, after cyclone Tracy severely damaged the ore loading facilities at the port of Darwin.

A bauxite mining and treatment plant is operated at Gove by Nabalco. Bauxite, including alumina production, was valued at \$62,486,616 in 1974-75. Of the bauxite produced 2,329,022 tonnes or 56 per cent was fed into the alumina plant, while of the remaining 1,848,959 tonnes (44 per cent), 875,971 tonnes were exported to Japan.

The production of manganese from the extensive deposits at Groote Eylandt supplies all Australia's requirements of metallurgical grade managanese ore. Approximately half of the manganese produced during 1974–75 was exported to Japan with smaller amounts exported to Europe, the U.S.A. and South Korea. Total shipments from Groote Eylandt amounted to 882,106 tonnes of lump ore and 569,806 tonnes of fines.

Most of the Northern Territory ore production is exported to Japan with the U.S.A. and various European countries being the other main buyers of Northern Territory ores.

Most of the Northern Territory gold and copper production is obtained from the copper-gold ores of the underground mines of Peko-Walsend Ltd at Tennant Creek. Currently (since February, 1975) only those mines producing ores with a high gold content are in operation, due to the unfavourable world prices for copper. The flash smelter for the production of blister copper, which commenced operations in Tennant Creek in December 1973 suspended operations in February 1975 while copper prices remain low.

The uranium ore deposits discovered in the Alligator Rivers area, about 240 kilometres east of Darwin (Ranger, Nabarlek, Jabiluka and Koongarra, to name the major finds), are still subject to environmental inquiries.

In the McArthur River District a pilot plant has been established to develop an economic ore treatment method for the extensive, low-grade, but extremely finely disseminated, lead-zinc sulphides deposits, which pose a major dressing problem.

NORTHERN TERRITORY: MINING ESTABLISHMENTS

| | | | | | | _ | 1972–73 | 1973-74 | 1974–75 |
|--------------------------------|--------|-------|-------|---|---|-----|---------|---------|---------|
| Establishments operating end | l of J | une | | • | • | No. | 15 | 15 | 15 |
| Persons employed(a) . | | | | | | No. | 1,473 | 1,495 | 1,180 |
| Wages and salaries . | | | | | | \$m | 10.8 | 12.9 | 15.9 |
| Turnover | | | | | | \$m | 66.0 | 87.7 | 91.6 |
| Opening stocks at 30 June | | | | | | \$m | 8.3 | 7.8 | 12.5 |
| Closing stocks at 30 June | | | | | | \$m | 7.8 | 12.4 | 17.5 |
| Purchases, transfers in and se | electe | d exp | enses | | | \$m | 16.4 | 22.0 | 27.4 |
| Value added(b) | | | | | | \$m | 49.1 | 70.2 | 69.2 |
| Fixed capital expenditure(c) | | | | | | \$m | 10.3 | 6.2 | 14.7 |

⁽a) At end of June. Includes working proprietors. less purchases, transfers in and selected expenses.

Petroleum and natural gas

Off-shore operations represented the main activity in petroleum exploration during 1974-75. At 30 June 1975, there were 5 oil permits covering 126,428 square kilometres, 2 oil licences covering 593 square kilometres and 14 exploration permits covering 2,246 blocks. Two oil leases covering 280 square kilometres are under application.

During 1974-75, seven off-shore wells were completed with the Sunrise No. 1 well having shows of gas. No wells were drilled on-shore during 1974-75.

Forestry

Forestry activities in the Northern Territory commenced in 1959 when the Forestry and Timber Bureau established a northern regional station in Darwin. In the same year the Legislative Council of the Northern Territory passed a Forestry Ordinance to regulate the harvesting of forest produce and the management of forests. Activities during the first 10 years were largely devoted to assessing the native forest resource, establishing species trials to determine what species were suitable for plantation establishment and examining the silviculture of native forests. Some forest development work was carried out under the terms of two Cabinet approvals. This work mainly took place within Aboriginal reserves in order to provide employment for Aborigines and included plantation establishment, the protection of native forests from fire to encourage regeneration and the training of Aborigines in sawmilling.

In 1970 a new five year forest development program was commenced which expanded forestry activities both within Aboriginal reserves and in forest reserves and potential forest reserves. It has been estimated that 75 per cent of the potentially productive forest land in the Northern Territory occurs within Aboriginal reserves.

The program provides for the extension of fire protection and forest management activities within cypress pine and other native forest in Arnhem Land and on Melville Island. A major objective of the program is to provide fire protection and forest management to 40,000 hectares of

⁽b) Turnover plus increase (or less decrease) in the value of stocks (c) Outlay on fixed tangible assets less disposals.

mixed cypress pine forest within Arnhem Land. The program also provides for the setting aside of forest areas to be managed for multiple use purposes including timber production, recreation and the protection of soil and water sheds. The annual establishment of 400 hectares of coniferous plantation is included in the present program. Forest assessment activities are to be continued and fire control activities are to be expanded within forestry, pastoral and agricultural areas as well as tree planting activities for conservation in the arid zone. The development of a second 5 year forestry development program due in 1976 has been delayed in the aftermath of Cyclone Tracy and uncertainty concerning the final format of Aboriginal Land Rights Legislation.

The consumption of sawn timber in the Northern Territory during 1973-74 was estimated at 25,000 cubic metres. It is not possible to obtain accurate statistics because of the substantial, but unknown quantity of sawn timber which enters the Northern Territory by road. Local production during 1973-74 was 900 cubic metres. Timber consumption following Cyclone Tracy, remained at approximately the same level as in previous years.

The effects of Cyclone Tracy on the Forests Resource of the Territory was minor. Forests in the land in the immediate Darwin environs were extensively damaged but these forests have value only in the aesthetic sense. Damage was restricted to a band some twenty kilometres wide reaching fifty kilometres inland.

Resource investigations have shown there are three areas within the Northern Territory with significant pulpwood resources which may be suitable for exploitation. These areas are within the present Aboriginal reserves. There has been some interest by Japanese paper industries in the past, and it is likely that this will increase in the next decade due to the rapidly increasing Japanese demand for paper and paper products.

The tropical Eucalyptus forests in the Northern Territory are comparatively low in timber productivity per unit area. Forest policy within the Northern Territory provides for multiple use management where feasible in order to optimise other forest values including soil and water conservation, forest recreation, grazing and the conservation of flora and fauna. The financial yields from forest areas can be increased through this form of management.

The total revenue derived from the forest is related to the levels at which royalties and fees are set. In principle, direct forest revenues should be adequate for the establishment, management and protection of the forest area. The forests provide renewable resources on which industries can be based and which will develop substantially greater income than direct revenues from the forest.

Fishing

Following preliminary surveys which indicated the existence of valuable prawn resources off the Northern Territory coast, prawning operations were approved in 1968 in waters adjacent to the Territory. Two prawning companies are now operating, both of which are joint Australian-Japanese ventures. One prawn processing plant is in operation in Darwin and another operates on Groote Eylandt. Boats and equipment valued at \$24 million were based in the Northern Territory in 1974–75. During 1974–75, 2.1m kilograms live weight of prawns were caught by Northern Territory prawning ventures. The Territory exported 0.8m kilograms (processed weight) valued at \$2.45 million. The other main fishery in the Territory is that based on barramundi in estuaries and inshore areas. This species also provides good sport fishing in inland areas. Commercial catches of barramundi totalled 194,000 kilograms (filleted weight) for the calendar year 1975.

NORTHERN TERRITORY: PRINCIPAL FISHERIES

| | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974–75 |
|--------|----------------------------|--|---|--|---|
| | | | | | |
| tonnes | 4,108 | 2,629 | 2,584 | 3,998 | 2,060 |
| \$'000 | 3,083 | 2,562 | 4,005 | 5,791 | 3,080 |
| | | | | | |
| tonnes | 253 | 391 | 619 | 846 | 781 |
| \$'000 | 139 | 191 | 380 | 749 | 613 |
| | | | | | |
| | 127 | 130 | 163 | 276 | 194 |
| | 542 | 532 | 561 | 788 | 638 |
| | \$'000 tonnes \$'000 | tonnes 4,108 \$'000 3,083 tonnes 253 \$'000 139 | tonnes 4,108 2,629 \$'000 3,083 2,562 tonnes 253 391 \$'000 139 191 | tonnes 4,108 2,629 2,584 \$'000 3,083 2,562 4,005 tonnes 253 391 619 380 | tonnes 4,108 2,629 2,584 3,998 \$'000 3,083 2,562 4,005 5,791 tonnes 253 391 619 846 \$'000 139 191 380 749 |

Secondary Industries

The types of secondary industries that have developed in the Northern Territory have been largely service industries based on demand for local markets together with the processing of primary production for export including the processing of mined ores, prawns and beef. The isolation of the Northern Territory from the major population areas of Australia and the resultant high transporttion costs make other than local market expansion difficult. However such isolation also provides a protected market for some aspects of secondary industry.

The extent of importation of commodities into the Northern Territory, significant underdeveloped raw resources and a growing population (and hence market) would suggest that potential exists for industrial expansion. Some see the proximity of South East Asian markets to Darwin as providing considerable future potential for export orientated secondary industry development.

In recent years, the effects of Cyclone Tracy on the City of Darwin, the general downturn in economic activity in the Australian economy, and the beef industry slump have had a significant effect on secondary industry in the Northern Territory. Some rapid growth in secondary industry associated with the building industry in Darwin has occurred, but growth in other areas is largely dependent on improvement in the general economic climate.

The following table shows preliminary results of the Manufacturing Censuses taken in respect of the years 1973-74 and 1974-75.

| | | | | | _ | | 1973-74 | 1974-75(a) |
|-----------------------------|-------|--------|--------|---|---|-------------|---------|------------|
| Establishments at 30 June | | | | | | No. | 102 | 68 |
| Persons employed(b) . | : | | · · | : | | No. | 2,450 | 2,308 |
| Wages and salaries . | | | | | | \$m | 18.0 | 22.0 |
| Turnover | | | | | | \$m | 87.0 | 94.7 |
| Opening stocks at 30 June | | | | | | \$m | 16.6 | 17.6 |
| Closing stocks 30 June. | | | | | | \$m | 26.0 | 34.1 |
| Purchases, transfers in and | selec | ted ex | penses | | | \$ m | 45.8 | 61.4 |
| Value added(c) | | | - | | | \$m | 50.6 | 49 8 |

NORTHERN TERRITORY: MANUFACTURING ESTABLISHMENTS

Tourism

Tourism has become one of the Territory's major industries in recent years and is likely to play an increasingly important role in the Territory's economy. Prior to Cyclone Tracy the industry had sustained growth rates of the order of 12 per cent per annum. In 1971, visitors numbered 112,800; with 12,000 of these coming from overseas. Ayers Rock provides the most reliable long-term visitor figures which show that from a visitor total of 5,000 in 1961, numbers have increased to 38,000 in 1971, and to 54,000 in 1975. Despite the setback in the Top End suffered as a result of Cyclone Tracy, the industry there already shows signs of resurgence, while the Centre has experienced continued growth.

In 1974-75 the Northern Territory Tourist Board spent \$530,770 in development of the industry. Bureaux are currently in operation in Sydney, Melbourne, Adelaide, Darwin and Alice Springs.

Action is under way for a detailed study of the Territory's tourist industry and tourist potential to identify future development options and evaluate these in terms of implications for the Northern Territory economy, its people and the environment. This is seen as necessary to provide a framework for possible future private and government planning and investment covering not only the tourist industry but general urban and regional development in the Territory, given the major role that tourism could play in this.

National Parks and Reserves

About 43,000 square kilometres have been set aside as wildlife sanctuaries under the Wildlife Conservation and Control Ordinance. They are controlled by the Chief Inspector of Wildlife who is an officer of the Department of the Northern Territory. Wildlife protected areas total 236,000 square kilometres, the bulk of which consists of Aboriginal reserves.

⁽a) From 1974-75 all manufacturing establishments owned by multi-establishment enterprises and single establishment manufacturing enterprises with four or more persons employed.
(b) Average over whole year. Includes working proprietors.
(c) Sales, transfers out and other operating revenue plus increase (or less decrease) in the value of stocks, less purchases, transfers in and selected expenses.

The Northern Territory Reserves Board administers some 37 national parks and reserves covering an area of over 249,926 hectares. The Board is responsible under the National Parks and Gardens Ordinance for the care, control and management of these reserves, and its functions include the preservation and protection of natural and historical features and the encouragement of public use and enjoyment of land set aside in such reserves.

Trade, transport and communication

Trade

No comprehensive record is kept of the trade between the States and the Territory. The following table shows the values of the principal commodities imported into and exported from the Northern Territory from or to overseas countries.

NORTHERN TERRITORY: PRINCIPAL OVERSEAS IMPORTS AND EXPORTS

(\$'000)

| Commodity | 1971-72 | 1972–73 | 1973–74 | 1974-75 | 1975-76 |
|--|----------|---------|---------|---------|---------|
| | IMPORTS | \ | | | |
| Petroleum and shale spirit— | | | | | |
| Automotive spirit | 1,108 | 1,399 | 192 | 3,801 | 4,786 |
| Automotive distillate | 1,437 | 1,185 | 1,507 | 3,772 | 3,780 |
| Furnace fuel | 1,847 | 2,233 | 8,505 | 13,407 | 19,332 |
| Other(a) | 2,124 | 1,732 | 129 | 2,441 | 6,662 |
| Chemical elements and compounds | 2,887 | 3,282 | 2,144 | 7,760 | 6,834 |
| Timber | 546 | 771 | 1,235 | 1,754 | 1,887 |
| Machinery and transport equipment(b) . | 9,049 | 32,827 | 17,579 | 7,332 | 7,314 |
| Other articles | 6,868 | 6,161 | 7,141 | 8,628 | 8,564 |
| Total imports | 25,866 | 49,590 | 38,432 | 48,895 | 59,159 |
| | EXPORTS(| c) | | | |
| Meats | 5,744 | 7,375 | 6.047 | 2,698 | 2.076 |
| Fresh prawns and shrimps | 1,052 | 4,479 | 4,162 | 3,140 | 3,005 |
| Iron ore and concentrates | · | 5,656 | 4,939 | 1,549 | 606 |
| Other metalliferous ores and metal scrap . | | 22,918 | 27,149 | 37,379 | 53,825 |
| Inorganic chemicals elements metallic | • | , | • | • | • |
| oxides, etc | 52 | 22,258 | 35,775 | 56,786 | 83,374 |
| Ships, boats and floating structures | 8,230 | 14,881 | 3,185 | 11,519 | 322 |
| Other articles | 7,463 | 18,131 | 5,525 | 3,993 | 8,643 |
| Total exports | 49,243 | 95,698 | 86,782 | 117,064 | 151,851 |

⁽a) Includes industrial and marine diesel fuel, oil for use as refinery stock, etc. (b) Includes value of oil search equip ment (floating structures, etc.) which were brought to the Northern Territory for temporary operation and moved overseas after the planned exploration activities were completed. (c) Includes domestic exports and re-exports.

Railways

The Australian National Railways operates the Central Australia Railway from Port Augusta in South Australia to Alice Springs over a distance of 1,226 kilometres of which about 322 kilometres are in the Northern Territory. The line is standard gauge from Port Augusta to Marree, a distance of 357 kilometres and narrow (1,067 mm) gauge from Marree to Alice Springs. The Commonwealth Government has approved the construction of a standard gauge line between Tarcoola and Alice Springs, to replace the Marree-Alice Springs section of the Central Australia Railway and survey work has commenced. The Australian National Railways also operates the North Australia Railway between Darwin and Birdum on a narrow (1,067 mm) gauge over a distance of 510 kilometres. The two inland terminals, Alice Springs and Birdum are about 1,014 kilometres apart and are connected by road transport along the Stuart Highway. Larrimah, on the highway and 10 kilometres north of Birdum, is the point of trans-shipment for passengers and goods and is, at present, the effective terminal. A road-rail freight service operates between Adelaide and Darwin via Alice Springs.

Roads

The Stuart Highway is the principal north-south axis route for the Northern Territory connecting Alice Springs, Katherine, Tennant Creek and Darwin to Adelaide. The section Darwin-Alice Springs is 1,535 kilometres long and sealed over its full length. The section south of Alice Springs is sealed for 207 kilometres to Erldunda with work proceeding to seal the remainder as far as the border with South Australia. This is expected to be completed by December 1976.

The Barkly Highway is the principal route to and from Queensland via Mt. Isa. It is 648 kilometres long and is sealed. Running approximately east-west it connects to the Stuart Highway some 26 kilometres north of Tennant Creek.

The Victoria Highway, the principal access route to and from Western Australia via Kununurra, is 467 kilometres long and is sealed.

These highways are used to carry the various freight including cattle, particularly between the railheads of Mt. Isa, Alice Springs and Larrimah. They provide access to meatworks at Wyndham (Western Australia), Cloncurry (Queensland) and Katherine. In addition they play a particularly important part in the Northern Territory economy in their association with the tourist industry.

The first of a number of programs for upgrading the Stuart and Barkly Highways is nearly complete and a second has been approved by Parliament.

The fourth principal Northern Territory road is the Arnhem Highway which has been sealed for 210 kilometres. It commences some 34 kilometres south of Darwin at the Stuart Highway and leads eastwards to the uranium exploration and development areas of the Alligator Rivers district.

Development roads serving the more remote outback communities have received attention. At 30 June 1975 there were 19,962 kilometres of roads in the Northern Territory. These comprise 4,534 kilometres sealed, 1,597 kilometres gravel, 4,762 kilometres formed and 9,069 kilometres unformed.

Shipping

Shipping services to Darwin are provided from the eastern states by the Australian National Line using one vessel on a six weekly service and from Western Australia by West Australian State Shipping Service using three vessels providing three services a month. Tankers from Australian and overseas ports deliver oil products to Darwin. General cargo vessels from overseas ports also visit Darwin. The prawning and fishing industry accounts for a significant portion of the shipping entries into the port.

John Burke Pty. Ltd. operates a regular shipping service from Brisbane to the Gulf of Carpentaria ports which serves Aboriginal communities as well as the mining centres of Melville Bay (Gove) and Milner Bay (Groote Eylandt). Other shipping services to Milner Bay and Melville Bay bring supplies for the mining operation and bulk carriers load ore and other mining products for delivery to ports in Australia and overseas.

Powered barges provide services from Darwin to Aboriginal communities and ports along the coast.

Air services

At 1 January 1976, there were 127 aerodromes in the Territory, six of which are maintained by the Australian Department of Transport, Air Transport Group. Following the destruction by Cyclone Tracy of the facilities for international passengers in the Darwin terminal building, overseas passenger flights ceased. The Merpati Nusantara service (Darwin to Kupang) resumed during 1975 and on 31 March 1976, Qantas re-introduced a service to Hong Kong and London. Regular internal services to Darwin, with, in some cases, intermediate stops at Territory centres, are operated by Trans-Australia Airlines and Ansett Airlines (from Adelaide, Sydney, Melbourne and Brisbane), and MacRobertson-Miller Airways Ltd (from Perth). Connair Pty Ltd operate a network of air services throughout the Territory, the company's base being at Alice Springs, in addition, MacRobertson-Miller Airways Ltd operate from Darwin to Gove and Alice Springs. The Northern Territory Aerial Medical Service has aircraft based at Darwin, Gove and Alice Springs, whilst the Royal Flying Doctor Service operates from Alice Springs, Charter services are available at a number of centres including Darwin, Alice Springs, Katherine, Tennant Creek, Gove and Groote Eylandt.

Posts, telegraph, telephones, radio and television

Postal communication is maintained by road, rail and air transport between major Northern Territory towns and the capital cities of Australia. Large centres receive surface mails by two major road mail services operating via Alice Springs and Mount Isa. The more remote centres are served by the aerial services. Direct mails are despatched to several overseas countries but direct despatches are received only from London, Bangkok and Djakarta.

Trunk telephone links to Darwin extend from Townsville via a broadband microwave radio relay system and from Adelaide via carrier systems superimposed on the overland telegraph lines.

These systems also carry telegram and telex traffic and serve the towns along the routes. Subscriber trunk dialling facilities from Darwin and Nhulunbuy (Gove Peninsula), were made available during 1974.

High frequency radio telephone exchanges at Katherine and Alice Springs provide connections to the telephone network for some of the remote properties in the Northern Territory. The majority of homesteads on pastoral leases are equipped with radio transceivers operating through the Royal Flying Doctor base at Alice Springs or the Telecom Australia Outpost Radio base in Darwin, which provide a message passing and emergency communications service.

Regional national broadcasting stations are situated at Darwin, Alice Springs, Tennant Creek, Katherine and Gove and there are commercial broadcasting stations located at Darwin and Alice Springs. Two television stations ABD Channel 6 of the national broadcasting system and NTD Channel 8, a commercial station, operate in Darwin. The Darwin ABD 6 national program is also broadcast in Katherine (ABKN 7) and Tennant Creek (ABTD 9) with a translator (ABTD 9-10) to give coverage of the mining residential area at Warrigo. A national television station ABAD Channel 7 operates in Alice Springs.

EDUCATION

See also the chapter Education.

The Commonwealth Department of Education through its Northern Territory Division is responsible for the education administration in the Northern Territory.

This responsibility includes the following:

- (i) Development of curricula for use in all Northern Territory schools; education research; in-service and pre-service education of teachers; development of a teaching resources centre.
- (ii) Special projects covering the range of educational facilities in the Northern Territory, including education programs for Aborigines, migrant education and services for handicapped children.
- (iii) Planning and controlling the capital works program of educational buildings in the Northern Territory.
- (iv) Administration of capital assistance to non-government schools.

Much of this is carried out at a local level by staff of regional offices in Alice Springs, Tennant Creek and Katherine.

Schools in the Northern Territory

At August 1975 there were 98 schools in the Northern Territory catering for approximately 22,000 students.

About 3,000 of these students attend private or mission schools. The phase-out of South Australia's education commitments planned for the period 1971-75 is now completed, including the transfer of responsibility for recruiting and employing teachers to the Commonwealth Teaching Service. Staffing organisational patterns are unique to the Territory and are based on locally perceived needs. Professional staff are recruited by the Commonwealth Teaching Service as requested by the Northern Territory Authority.

The curricula of Northern Territory urban schools are basically derived from the South Australian pattern, but they are changing. For instance, the secondary schools are developing their own certification and matriculation assessment procedures, an exercise which is complicated by the fact that there is no university or college of advanced education in the Territory.

There are two Schools of the Air in the Northern Territory, one at Alice Springs and one at Katherine. Plans are under way at both centres to relocate the Schools in new buildings in late 1976 and to include in each a residential wing to allow students from remote areas to attend their home school for approximately one week each term. In 1974 the Schools assumed responsibility from the South Australian Correspondence School, for primary correspondence lessons for children living in isolated areas of the Northern Territory. Aerial patrols using a teacher pilot and regular road patrols in the dry season maintain teacher/pupil/parent contact.

A continuing development has been the interest in Indonesian and South-East Asian studies in secondary schools in the Northern Territory. Student and teacher exchange schemes now operate each year between Bali and Territory high schools.

New open-plan primary schools in urban areas have been opened recently, exciting local interest in fresh approaches to education. Current flexible-space designs reflect the desirability of alternative approaches to teaching techniques with a multi-cultural and heterogeneous student population. The area school concept in smaller urban communities is yielding to population growth and new primary and high school facilities are being provided.

Aboriginal education

The great majority of Northern Territory Aborigines live away from the town centres. Education for Aboriginal children is provided in various settings, including mission schools, Government schools on or near missions, Government schools in or near Aboriginal townships or in schools on pastoral properties.

In late 1973, as a result of a survey of educational buildings in Aboriginal communities (the Sebac Report) the Government initiated a major five-year program to upgrade buildings and facilities in these communities. However, a recent movement on the part of some Aboriginal family groups to leave central locations for a more traditionally oriented life style has posed new problems as regards providing educational facilities for these decentralised communities or 'out-stations' and a major project is under way to develop a new form of schooling compatible with the wishes of the communities. One means of providing physical facilities in this situation is the use of mobile 'caravan schools'.

The Government schools for Aboriginal children in out-of-town centres provide tuition at preschool and primary school level, a number of them have some post-primary classes as well.

For Aboriginal children who wish to proceed to secondary school, there are three residential, transitional colleges. Yirara, Kormilda and Dhupuma Colleges are regionaly-based, but sited near urban centres. They provide students from bush locations with the opportunity to become bicultural, and prepare them for entry to secondary school programs in towns.

A development that has attracted wide interest and is likely to assume relatively large proportions is a bilingual education program whereby Aboriginal children are taught, in their early years of schooling, in their native tongue. Eleven languages have been analysed sufficiently to allow bilingual programs to be mounted, and initial literacy to be in local vernaculars. The extension of bilingual programs to the majority of Aboriginal children is hampered by the fact that there are over 130 languages and dialects in use.

The School of Australian Linguistics, which is training Aborigines as linguists, works closely with the Bilingual Education Section of the Northern Territory Division of the Commonwealth Department of Education.

Adult education is provided in Aboriginal townships and on missions. Most adult education activity takes the form of classes conducted by local instructors. Classes include song and dance, folklore, art and craft, English, civics, basic mathematics, hairdressing, mechanics, dressmaking, domestic science, health and nutrition, budgeting and manual arts. The Department of Education has developed a variety of short term courses to assist Aboriginal people to overcome problems of social concern, including elections and voting procedures. Intensive courses are conducted in major centres with visiting instructors, but Aborigines also conduct courses.

Darwin Community College

The Darwin Community College is presently the only institution which provides post-secondary education in the Northern Territory. The College was opened in 1974 and is an autonomous, multipurpose institution. It has schools of business and management, general studies (including teacher education), creative and applied arts, technology and science, trades and linguistics. As well as courses leading to awards, the College provides a wide range of non-award general interest classes. It provides tutorial assistance to external students enrolled at the University of Queensland. The College has established a regional campus at Alice Springs and has annexes at Katherine, Nhulunbuy and Tennant Creek. The School of Australian Linguistics is established at Batchelor. During first semester 1976 the Darwin Community College recorded 5,437 course enrolments, the highest number in its brief history.

Though the Darwin Community College's role is primarily to cater for the Northern Territory's needs, it does have a national significance in that it is the first multi-level institution of its kind in Australia. Because of its unique educational nature it is constantly attracting visitors from interstate educational institutions and from overseas.

Apprenticeship training

Since March 1974 the formal training of apprentices in the Northern Territory has been coordinated through the Darwin Community College. Courses are conducted at the Casuarina and Alice Springs Campuses for the majority of trades. These courses are either day or block release. Trades that are less popular are serviced by interstate block courses.

Finance

Details of receipts and outlay of the Territory for the years 1970–1971 to 1974–75 are shown in the table following. In this table identifiable receipts and outlay of the Northern Territory have been classified into a National Accounts form. The table covers transactions relating to the Northern Territory in the Commonwealth Government Consolidated Revenue Fund and the following trust funds: Aborigines Benefits, Northern Territory Government Settlements Canteens, Northern Territory Housing Loans, Northern Territory Transport and Northern Territory expenditure from the Aboriginal Advancement Trust Account. Details of the financial transactions of the following Northern Territory semi-government authorities also included: the Northern Territory Port Authority and the Northern Territory Housing Commission. Details of the financial transactions of the Darwin City Council are also incorporated in the table. Revenue derived by the Commonwealth Government from income taxes, customs duties, etc., levied in the Northern Territory and expenditure by the Commonwealth Government in the Northern Territory on such items as defence, civil aviation, railways, etc., payments to residents from the National Welfare Fund and advances from the Aboriginal Loans Commission are not included.

NORTHERN TERRITORY: RECEIPTS AND OUTLAY (\$'000)

| | | | 1970–71 | 1971-72 | 1972–73 | 1973–74 | 1974-7. |
|---------------------------------|----------|--------|------------|---------|---------|---------|---------|
| | | | RECEIPTS | | | • | |
| Taxation— | | | | | | | |
| Rates on land | | | 698 | 1,041 | 1,099 | 1,227 | 1,64 |
| Vehicle registration fees | | | 646 | 784 | 816 | 859 | 83 |
| Liquor taxes(a) | | | 366 | 443 | 486 | 589 | 56 |
| Payroll tax | | | | 1,587 | 1,957 | 2,684 | 5,11 |
| Stamp duties | | | 176 | 158 | 184 | 330 | 25 |
| Other taxes, fees, fines, etc. | | | 574 | 695 | 731 | 978 | 1.06 |
| Interest, rent, etc | | | 1,598 | 1,488 | 1,542 | 2,085 | 1,83 |
| Public enterprises income | | | 3,505 | 3,928 | 3,753 | 4,683 | -4,32 |
| Net sale of local authority an | d publi | c cor- | -, | -, | -, | ., | ., |
| | | | 399 | 288 | 157 | 239 | 28 |
| Other receipts(b) | | | 1,773 | 6 | 975 | 928 | -4.11 |
| Net charge to Commonwealth | budget | | 87,623 | 109,948 | 122,431 | 155,792 | 276,33 |
| Total receipts . | | | 97,358 | 120,366 | 134,131 | 170,394 | 279,51 |
| | | | OUTLAY | | | | |
| Final consumption expenditur | е— | | | | | | |
| Law, order and public safet | | | 3,326 | 3,607 | 5,440 | 7,410 | 12,53 |
| Education | • | | 7,813 | 9,491 | 12,818 | 19,420 | 31,03 |
| Health | | | 9,417 | 12,069 | 14,673 | 19,882 | 27,89 |
| Social security and welfare | | | 8,028 | 8,478 | 10,570 | 11,462 | 20,22 |
| Other | | | 13,416 | 17,116 | 18,795 | 24,787 | 77,48 |
| Expenditure on new fixed asset | s and st | ocks | • | • | , | • | • |
| Education | | | 5,126 | 7,671 | 12,036 | 9,005 | 12,23 |
| Health | | | 2,089 | 9,457 | 5,274 | 8,991 | 14.56 |
| Social security and welfare | | | 455 | 348 | 623 | 220 | 50 |
| Housing and community an | | | 12,183 | 16,592 | 17,876 | 16,031 | 25,84 |
| Roads | | | 11,908 | 11,636 | 14,627 | 14,779 | 16,45 |
| 0.1 | | | 6,107 | 7,879 | 7,345 | 6,367 | 16,23 |
| Electricity, gas and water | | | 10,083 | 8,960 | 8,032 | 9,191 | 11,69 |
| Net purchase of existing assets | s. | | 45 | 280 | -, | 3,729 | 9,06 |
| Interest paid | | | 154 | 226 | 238 | 252 | 23 |
| Cash benefits | | | 204 | 201 | 257 | 64 | 1,75 |
| Subsidies | | | 460 | 620 | 505 | 657 | 23 |
| Net advances to the private se | ctor— | • | | | | | |
| Housing and community an | nenities | | 4,608 | 3,749 | 1,163 | 8,252 | -15,92 |
| Other | | | -95 | 83 | 68 | 1 | 1,65 |
| Net advances to public finance | | | | • • • | | • | 2,75 |
| Grants for private capital pur | | | 2,031 | 1,903 | 3,791 | 9,894 | 13,02 |
| Total outlay | | | 97,358 | 120,366 | 134,131 | 170,394 | 279,51 |

⁽a) Estimated for years prior to 1972-73.

⁽b) Includes movements in cash, investments, etc.

THE AUSTRALIAN CAPITAL TERRITORY

General description

The Constitution provides that the Seat of Government of the Commonwealth of Australia shall be in the State of New South Wales but distant not less than 100 miles (160 kilometres) from Sydney. After a number of alternative sites were considered, an area of 2,359 square kilometres lying approximately 320 kilometres south-west of Sydney was transferred to the Commonwealth as from 1 January 1911. A further 73 square kilometres at Jervis Bay were transferred as from 4 September 1915 to serve as a port for the Territory.

The primary responsibility for administering the Australian Capital Territory lies with the Department of the Capital Territory, whose functions include housing, public transport, police and municipal services. Education, public health, justice, and the provision of basic physical services including water supply, sewerage and roads, are the responsibility of the Departments of Education, Health, Attorney-General's, and Construction. The National Capital Development Commission has the responsibility for the planning and development of the Canberra city area.

During 1974 the A.C.T. Advisory Council which had been in existence since 1930 was replaced by the A.C.T. Legislative Assembly. The first Assembly was elected on 28 September 1974 and held its first meeting on 28 October 1974.

The Assembly is constituted under the Legislative Assembly Ordinance 1936, Section 10 of which defines its role as follows:

'The Assembly may advise the Minister (for the Capital Territory) in relation to any matter affecting the Territory including the making of new Ordinances or the repeal or amendment of existing Ordinances.'.

Although the Assembly's present role is simply an advisory one the fact of its establishment has been seen by some as evidence of a move towards self-government for the Territory.

The Assembly consists of 18 Members (9 from each of the electoral divisions of Canberra and Fraser) and its procedure is modelled on that of the House of Representatives. Its Members serve on a part-time basis and sittings usually take place on two evenings each fortnight. During 1975 the Assembly held 24 sittings, comprising 33 sitting days.

The Assembly normally considers (and sometimes introduces) Ordinances which are proposed for the Territory and also passes resolutions on matters affecting the Territory. It is represented on a number of boards, authorities and committees, such as the Canberra Commerical Development Authority, the A.C.T. Electricity Authority, the Interim Schools Authority, the Capital Territory Health Commission, the Liquor Licensing Board and the Australian Constitutional Convention.

At the census of 30 June 1976 the population of the Australian Capital Territory was 197,578. See also the chapters Population and Vital Statistics.

National Capital Development Commission

The National Capital Development Commission Act 1957 provides for a Commission to undertake and carry out the planning, development and construction of the City of Canberra as the National Capital of the Commonwealth. The year 1974–75 was the seventeenth year of the Commission's operations. Construction work was carried out by means of agency arrangements with the Department of Construction and private consultants. Expenditure by the Commission in recent years is as follows: 1971–72 \$59.5 million; 1972–73 \$74.4 million; 1973–74 \$99.7 million. Total expenditure in 1974–75 was \$147.5 million comprising: land development and services \$33 million; water, sewerage and stormwater, services and headworks \$18.2 million; housing, flats and other accommodation \$23.2 million; educational facilities \$16.3 million; roads, bridges and traffic control \$8.6 million; city works and associated facilities \$9.9 million; Commonwealth Government offices \$21.4 million; national works \$3.2 million; others \$13.7 million.

The following major works were completed during the 1974-75 financial year by the Commission: land servicing projects in Charnwood, Macgregor, Flynn, Spence, Chapman, Garran, various medium density housing sites and streetlighting and underground electricity mains in various localities; reservoirs at Belconnen and Mount Stromlo; 54 inch trunk sewer Ginninderra Creek, Belconnen; 12 housing contracts in various localities; Primary schools at Flynn, Holder, Holt, Melba, Duffy, Weetangera; Waramanga/Weston Creek High school stage 1 and Melrose High school, Pearce assembly hall and library; stage 2 Tuggeranong Parkway; Tuggeranong arterial stage 1; Village Creek arterial stage 1; Weston Horticulture Centre; Phillip Transport Depot; Belconnen Town Centre—roads and hydraulic services; Campbell Park Offices stage 1—buildings 1 and 2; Russell Offices—building No. 10; Administrative Building—fire escape facility; Parliament House extensions.

Major works under construction at the commencement of the 1975-76 financial year; roads and services in Charnwood, Garran, Hawker, Spence, Stirling, Kaleen, Kambah, Fraser, Tuggeranong North, Wanniassa, Giralang; Googong Dam and associated works; bulk water supply main from Stromlo to Belconnen; South Taylor Reservoir No. 2 and associated supply mains; Weetangera Reservoir; Lower Molonglo Water Quality Control Centre; Tuggeranong Interceptor Sewer; Molonglo Valley Interceptor Sewer; Giralang trunk sewer; Village Creek trunk stormwater; Mount Taylor and Wanniassa catch drain and trunk drain; Tuggeranong Creek main drain and sewer; 31 major housing contracts; Canberra School of Music; Primary schools in Chapman, Charnwood, Evatt, Hawker, Kaleen, Kambah, 'Neighbour', 'Urambi' and 'Village Creek', Macgregor, Wanniassa 1; High schools in Holder (stage 1), Holt (Ginninderra High), Kambah, Melba, Wanniassa; Colleges in Hawker (Belconnen College), Phillip (Woden College), Stirling (Weston Creek College), Narrabundah -conversion from High School; Telopea Park library and canteen; Canberra Technical College-Reid: (i) School of Automotive Engineering, (ii) Food school, (iii) School of Graphic Arts, (iv) General Purpose Classrooms; Ginninderra Drive state 2, 3 and 4, Gundaroo Road North stage 1, Canberra Avenue duplication-Fyshwick to Queanbeyan, Lake Ginninderra-embankment and associated works, Drakeford Drive, Erindale Drive; Belconnen Police station and Interim Remand Centre; Phillip—Motor Vehicle Testing station; Belconnen Town Centre stormwater drainage; roads and services in Crace and Group Centres at Charnwood, Kippax and Weston; Lyneham—Showground grassed paceway; Phillip-Woden District Library; Kambah-Community Health Centre; Narrabundah-ninety-six bed Nursing Home; Phillip-Health and Welfare Centre; Tidbinbilla National Fitness Camp; Barton—Trade Group Offices; Belconnen Western offices stages 1, 2 and 3; Belconnen -Cameron offices; Campbell Park offices state 2; Canberra City—A.C.T. Health Services Building; Parkes—computer building; Parkes—The Treasury computer installation; Phillip—Fishburn House; Phillip-Woden East offices stage 1; Russell Building No. 12; Tuggeranong offices state 1; Parkes-Australian National Gallery and High Court building; Parkes-National Library, Lower Ground Floor 1.

Works and services

Housing

Until the period following the 1939–45 War most houses and flats in the Australian Capital Territory were built and rented by the then Department of the Interior. More recently, an increasing number of houses and flats have been built by private enterprise, and as a result the proportion of houses and flats in the Australian Capital Territory occupied by tenants of the Department of the Capital Territory (formerly the Department of the Interior) has fallen from 79.7 per cent of total occupied houses and flats in 1954 to 58.3 per cent in 1961, 38.8 per cent in 1966 and 28.1 per cent in 1971. Although the bulk of rented accommodation is provided by public authorities, and this situation will continue thus in the foreseeable future, there has been a considerable increase in the proportion of home ownership in the Australian Capital Territory since 1954. The proportion of houses and flats owned or being purchased by instalments has risen from 19.5 per cent in 1954 to 29.0 per cent in 1961, 45.6 per cent in 1966 and 51.8 per cent in 1971. Home building activity in the Woden Valley and Weston Creek, south-west of the former city area and Belconnen, north-west of the former city area, has continued to expand, and at June 1971 there were 11,280 occupied dwellings in the Woden Valley and Weston Creek area, and 5,145 occupied dwellings in the Belconnen area. See also the chapter Housing and Building.

Municipal services

Since its establishment, Canberra has been developed as a garden city. The development of new areas of parkland and the maintenance of existing tree and lawn areas is the responsibility of the City Parks Administration of the Department of the Capital Territory. During the six years ended 30 June 1975, some 2.2 million trees and shrubs have been propagated by the Department for planting out in the city. The area of parks, gardens and sports grounds under maintenance at 30 June 1975 was about 5,100 hectares. Municipal services are also provided by the Department of the Capital Territory.

The water supply, sewerage and drainage systems in the Australian Capital Territory are under the control of the Department of Construction.

At 30 June 1975, 51,504 meters were connected to the city water supply, drawn through 31 reservoir installations, 3 of which comprises a pair of reservoirs, from 3 storages on the Cotter River with a total capacity of nearly 91,000 megalitres. In 1974-75, some 42,005 megalitres of water were consumed in Canberra serving a population of 185,000, and in addition the system supplied 2,656 megalitres to Queanbeyan, New South Wales, to an estimated population of 20,000. Treatment works at Weston Creek, Belconnen and Fyshwick dispose of Canberra's sewage. At 30 June 1975, 1,610 kilometres of sewers, 14 kilometres of rising sewerage mains, 1,717 kilometres of stormwater drains and a total length of 1,623 kilometres of water lines were laid.

Production

See also the chapters dealing with particular subjects.

I ande

Reference has been made in earlier issues of the Year Book to the general conditions of land tenure in the Territory and to the area of alienated and leased land, and the chapter Rural Industry of this issue contains statistical information on the subjects. (See also § 1. Canberra: Fifty Years of Development, page 123 of Year Book No. 49.)

Under the Seat of Government (Administration) Act 1910, no Crown lands in the Territory may be sold or disposed of for any estate in freehold except in pursuance of some contract entered into before the commencement of the Act. In general, leases of land in the city area are granted under the City Area Leases Ordinance 1936. In special circumstances land may be leased for purposes other than business or residential under the Leases (Special Purposes) Ordinance 1925 and for church purposes under the Church Lands Leases Ordinance 1924. As considerable areas of Government owned land in the Territory are not immediately required in connection with the establishment of the City, they have been leased for agricultural or grazing purposes under the Leases Ordinance 1918 for terms consistent with the expected growth of Canberra. Some lands in the Territory, in areas generally remote from the City, remain in private ownership under freehold title. A program of progressive acquisition of this land is being implemented.

The Australian Territory at Jervis Bay, comprising about 73 square kilometres, was acquired from New South Wales for the possible provision of port facilities in connection with the Australian Capital Territory. A portion of the area is occupied by the Royal Australian Naval College (H.M.A.S. Creswell) and a Royal Australian Navy airfield. Several blocks fronting Sussex Inlet have been leased for guest houses and holiday camps, etc., under the Leases Ordinance 1918, and an area of land in the Murray's Beach area has been set aside for possible use as an atomic power station under the control of the Australian Atomic Energy Commission. Apart from picnic and camping areas, experimental planting, afforestation and soil conservation activities, the remainder of the area is being maintained in its natural state.

Forestry

Forestry field operations in the Australian Capital Territory began in 1915 with the planting of pines of the denuded slopes of Mount Stromlo to arrest soil erosion and improve visual quality of the landscape. In 1926 a program for development of commercial forests was approved following a comprehensive review of the Territory's potential for forest development. Major reviews of this program were made in 1932, 1954 and 1967, always however retaining the basic policy of systematic conservation and development. Much of the better native forest has been placed under management and forestry operations including fire protection treatment have been extended to some 44,500 hectares of natural forest in the Cotter Catchment and adjacent areas. The more productive stands in these areas were harvested extensively to provide timber for Canberra's post-war expansion and were subsequently treated to promote regeneration and protect the quality of water harvested

The policy of forest management in the Australian Capital Territory has been formulated to cater not only for commercial timber production but also to provide recreation facilities and an attractive visual environment for the national capital and to protect the water supply. These policies can be broadly summarised as follows.

- (a) Manage and develop plantations and hardwood forest area in the Australian Capital Territory and Jervis Bay for production of timber and arrange sales of all forest produce.
- (b) Initiate and maintain a variety of growth and environmental experiments to produce information for management decisions.
- (c) Develop and implement viable multiple use policies for forest areas with particular emphasis on recreation potential and facilities, quality of water harvest in catchments and conservation of the environment.

The forest authority is charged with the management of some 65,000 hectares of land in the Australian Capital Territory. Of this some 47,000 hectares carry native forest or woodland. As at 31 December 1974 the total area of coniferous plantations in the Australian Capital Territory and Jervis Bay was 14,400 hectares. Of 250 hectares at Jervis Bay the majority consists of *Pinus radiata* (Monterey Pine) and *Pinus elliottii* (Slash Pine). The plantations in the Australian Capital Territory consist mainly of *Pinus radiata* and *Pinus ponderosa* (Yellow Pine). Total area of *Pinus radiata* was 13,200 hectares.

In 1974-75 there was no significant commercial production of hardwood timber from the Australian Capital Territory and Jervis Bay. Currently hardwood logging is restricted to incidental production from silvicultural operations. However, the volume of softwood cut decreased to 120,344

cubic metres (130,744 cubic metres in 1973-74). The total value of this unprocessed timber unloaded at the mill (milldoor value) was \$1,635,000. This returned \$786,000 in royalties (value of unprocessed timber at stump).

Agricultural, pastoral and secondary industries

During 1973-74 the production of the more important items of the agricultural and pastoral industry was: wheat 355 tonnes; wool 539,000 kg; whole milk 2,841,000 litres; meat (carcass weight), fresh 7,674 tonnes. The numbers of livestock depastured at 31 March 1974 were: cattle 19,049; sheep 125,800; pigs 43.

As in the Northern Territory, the secondary industries established in the Australian Capital Territory are largely the service industries associated with the growth of the Territory.

The following table shows preliminary results of the Manufacturing Censuses taken in respect of the years ended 30 June 1974 and 1975.

AUSTRALIAN CAPITAL TERRITORY MANUFACTURING ESTABLISHMENTS(a)

| | | | | | | | 1973-74 | 1974-75 |
|-------------------------|------|--------|---------|------|-----|-----|---------|---------|
| Establishments operat | ing | durir | ig year | ٠. | | No. | 139 | 104 |
| Persons employed(b) | . ` | | • | | | No. | 3,704 | 3,678 |
| Wages and salaries | | | | | | \$m | 22.3 | 27.1 |
| Turnover | | | | | | \$m | 75.6 | 94.6 |
| Opening stocks at 30. | June | | | | | \$m | 5.5 | 8.9 |
| Closing stocks at 30 J | une | | | | | \$m | 8.2 | 10.3 |
| Purchases, transfers in | an | d sele | cted e | xpen | ses | \$m | 36.8 | 46.7 |
| Value added(c). | | | | ٠. | | \$m | 41.6 | 49.2 |

⁽a) From 1974-75 all manufacturing establishments owned by multi-establishment enterprises and single establishment manufacturing enterprises with four or more persons employed. (b) Average over whole year. Includes working proprietors. (c) Sales, transfers out and other operating revenue plus increase (or less decrease) in the value of stocks, less purchases, transfers in and selected expenses.

Transport and communication

Canberra is connected with the railway system of New South Wales at Queanbeyan by a line 8 kilometres long. This line was opened for goods traffic on 25 May 1914 and for passenger traffic on 15 October 1923. Direct or linking services operate between Canberra and Sydney and Canberra and Melbourne. Two airlines provide many services daily each way on the Sydney-Canberra-Melbourne route. Regular motor-coach services link Canberra with towns in New South Wales, Victoria and South Australia. The total length of roads in the Territory at 30 June 1974 was: bitumen and concrete, 1,344 kilometres; gravel, 378 kilometres; other formed roads, 42 kilometres; total, 1,764 kilometres. There are four radio broadcasting stations in the Territory, 2CY and 2CN of the national broadcasting system and two commercial stations, 2CA and 2CC, and two television stations, ABC Channel 3 of the national broadcasting system and CTC Channel 7, a commercial station.

Social

See also the chapters Education; Public Health; and Law, Order and Public Safety.

Schools

The Education Ordinance 1937 provides for the compulsory attendance at school of children between the ages of six and fifteen years. At the beginning of 1974 the Commonwealth Department of Education assumed complete responsibility for the operation of Australian Capital Territory government schools taking over the areas of staff and curriculum previously carried out by the New South Wales Department of Education. The actual running of the schools is being controlled by an Interim A.C.T. Schools Authority, representative of teachers, parents and the community, with the Department retaining legal responsibility until the Authority attains permanent status. There were approximately 2,500 teachers in the Australian Capital Territory at February 1976, an increase of 200 over 1975.

The Interim A.C.T. Schools Authority has established the A.C.T. Schools Accrediting Agency which accredits courses and administers student assessment procedures for years 11 and 12. These procedures will replace the New South Wales Higher Schools Certificate examination from the end of 1976.

In February 1976 there were 15 government high schools in the Australian Capital Territory and 4 secondary colleges, which commenced operations in 1976. Secondary colleges will cater for years 11 and 12 and high schools for years 7 to 10. Secondary students enrolled numbered 12,796.

Sixty-two schools provide courses at infants and primary levels, 3 of these being in rural districts and 1 in the Jervis Bay area. The number of pupils enrolled in primary grades of government schools at February 1976 was 22,875.

Hartley Street School for physically handicapped children is located at Turner Primary School. It incorporates a pre-school section, Special units for deaf children are situated at Ainslie and Mawson Primary schools and Telopea Park High School.

Blind children attend Turner Primary School and partially sighted children enrol in the home school and are provided with special equipment by the Interim A.C.T. Schools Authority. Classes for mildly intellectually handicapped children are provided at Ainslie, Curtin South and Scullin Primary Schools, Lyneham High School and the Woden School. Three special schools, incorporating preschool sections, serve the needs of moderately and some severe intellectually handicapped children. Nine primary schools cater for children of junior primary age who are unable to adjust to a normal class situation. One of these classes specialises in the care of children with severe language and communication disorders. Two reading centres operate, at Yarralumla and North Ainslie Primary Schools. Special English classes for migrant children are available at fifteen primary schools, four high schools and one secondary college. A number of physically and mildly intellectually handicapped and partial hearing children are being integrated into neighbourhood schools. Educational guidance services are provided by the Education Clinic and through counselling staff.

The 66 pre-schools including 2 in the Jervis Bay area and a mobile unit which visits outlying areas of the Australian Capital Territory provide pre-school facilities for approximately 5,000 children between the ages of 3 and 5 years. Provision is made at all pre-schools for the additional enrolment of children who have minimal problems, such as speech, behavioural and family problems. Five new primary and pre-schools were opened in 1975, at Charnwood, Chapman, Village Creek, 'Mount Neighbour', and 'Urambi', and at Giralang and Hawker in 1976. A pre-school at Wanniassa is scheduled to open in late 1976. Holder High School was opened in 1975, while Kambah and Melba High Schools opened in 1976.

At February 1976 there were 26 non-government schools in Canberra including 8 secondary schools. At the same date 7,176 pupils were enrolled in the primary grades of non-government schools and 5,539 pupils were enrolled in the secondary forms of non-government schools.

Other educational institutions

The Interim A.C.T. Technical and Further Education Authority was established in September 1975 to administer technical and further education in the A.C.T. The New South Wales Department of Technical and Further Education is however continuing to provide educational services for Canberra Technical College and the Canberra School of Art.

The Canberra Technical College provides trade, post-trade, certificate, and craft and leisure-type courses at the main campus and several annexes. At April 1976, 21 schools of study catered for 10,237 students in 172 courses.

The Canberra School of Art became a separate institution under the control of the Interim A.C.T. TAFE (Technical and Further Education) Authority in 1976. It offers diploma and certificate studies as well as non-vocational art and ceramic courses.

The Canberra School of Music is administered by the Commonwealth Department of Education and provides a four year full-time course and individual study in a range of instruments and voice. In March 1976 enrolments totalled 1,094. A new school to cater for between 1,000 and 1,200 students has been occupied in 1976.

The Canberra College of Advanced Education is administered by a Governing Council constituted under an Act of Parliament and offers courses in 6 schools—Administrative Studies, Applied Science, Liberal Studies, Teacher Education, Information Sciences and Environmental Design. Courses have a professional or vocational orientation and lead to undergraduate degrees, associate and graduate diplomas and a degree of Master of Education. An enrolment of 5,500 students is expected by the end of 1976.

The Australian National University consists of a School of General Studies and an Institute of Advanced Studies.

The School of General Studies is composed of Faculties of Arts, Asian Studies, Economics, Law and Science. It carries out both undergraduate and post-graduate training and research.

The Institute of Advanced Studies is a centre for research and training in research. It includes the John Curtin School of Medical Research and Research Schools of Physical Sciences, Social Sciences, Pacific Studies, Chemistry, Biological Sciences and Earth Sciences.

The University has established the following centres: Centre for Resource and Environmental Studies, Humanities Research Centre, North Australia Research Unit (based in Darwin), Survey Research Centre, Centre for Continuing Education, Computer Centre, Office for Research in Academic Methods, and the National Health and Medical Research Council Social Psychiatry Research Unit.

Continuing education

The Centre for Continuing Education, which is run by the Australian National University, is intended to foster the 'learning society' by enriching the contacts between the university and the community to their mutual advantage. The Centre offers a wide range of courses in the natural and social sciences and the humanities.

The Canberra Evening College is a continuing education service of the Interim A.C.T. Schools Authority and provides courses leading to the New South Wales Higher School Certificate and the Public Service Qualifying Examinations. The College also offers a variety of craft and cultural courses.

The Canberra Technical College offers courses in various forms of arts and crafts, including home crafts, shorthand and typing and several unit courses in Home Science.

Adult migrant education

Free part-time day and evening classes in English are being conducted in various primary and high schools throughout Canberra and Queanbeyan. The former Narrabundah Infants School is being used as the Migrant Education Centre for the 1976 and future programs. An innovation during 1975 was a special English class at the Woden Hospital Rehabilitation Centre for migrants who had been injured in industrial and other accidents.

Accelerated English tuition on a full-time basis of 300 hours over ten weeks is available to permanent residents and *bona fide* immigrants to Australia. Selection for these courses is made by the Department of Education on the basis of economic need.

Migrants can also apply to learn English by correspondence if this is more convenient. Home tutor kits are available from the Good Neighbour Council for individual tuition in private homes.

Apprenticeship training

At 30 June 1975, 1,840 apprentices were in training in the 72 declared apprenticeship trades in the Australian Capital Territory. Apprentices were employed by 775 approved employers of which 111 were new employers. During 1974–75 there were 1,052 new applications for apprenticeship. Seven hundred and twenty-eight new indentures were registered, representing an increase of 23.4 per cent in new indentures on 1973–74 totals. In this period 279 apprenticeships were completed and 212 cancelled. Trade courses at the Canberra Technical College are supplemented, where required, by remedial classes in Mathematics and English.

Health

Canberra Hospital and Woden Valley Hospital serve the population of Canberra and the surrounding region. At 30 June 1974, Canberra Hospital had 581 beds, a visiting medical staff of 196, a salaried medical staff of 68 and a nursing staff of 866. At 30 June 1974 Woden Valley Hospital had 304 beds, a salaried medical staff of 45 and a nursing staff of 362. The hospital will become fully operational in stages, eventually having 600 beds.

During 1974 another two community health centres opened in Canberra. A centre in Kambah serving the people of the Tuggeranong area was opened in August and another centre in the Canberra City area was opened in March.

The five community health centres operating in Canberra during 1974 offered primary care provided by health worker teams which may include doctors, nurses, social workers, psychologists, physiotherapists, infant welfare sisters, dentists and pharmacists.

Law, order and public safety

The Australian Capital Territory has a Supreme Court and a Court of Petty Sessions. The Territory is policed by the Australian Capital Territory Police Force which at 30 November 1975, had an authorised numerical strength of 570 officers and men of various ranks. The distribution is

Commissioner (1), Deputy Commissioner (1), Superintendent (5), Senior Inspector (1), Inspector First Class (3), Inspector Second Class (14), Sergeant First Class (17), Sergeant Second Class (20), Sergeant Third Class (53), Senior Constable (52), Constable First Class (80) and Constable (323). The Force is divided into two General Duties Divisions, a Criminal Investigation Division, a Management Services Division, a Recruitment and Training Division, a Traffic Division, a Legal Division and a Community Affairs and Press Liaison Division. These in turn are divided into a number of Sections and Squads including Scientific, Breath Analysis, Fraud, Licensing, Criminal and Traffic Adjudication, Water Police, Accident Investigation, Jervis Bay, Police Youth and Citizens' Club, Rural Patrol, Search and Rescue, Underwater Recovery, Armed Offenders and Anti-Hi-jacking, Drugs, Emergency Mobile Communications, Safety Education, Process Serving, Highway Patrol, Motor Cyclists, Driver Training, Amphometer, Motor Squad, Fingerprints, Information, Gazette and Operations Room. At present the Force operates from Police Stations at Civic Centre (Headquarters), Woden Town Centre and Jervis Bay with Water Police Headquarters at Yarralumla Bay. A Station will be established at Belconnen Town Centre in 1976.

Finance

In the following table identifiable receipts and outlay relating to the Australian Capital Territory have been classified in a National Accounts form. The table covers transactions of the Commonwealth Government in respect of the Australian Capital Territory in the Consolidated Revenue Fund and the following trust funds: Australian Capital Territory Forestry, Australian Capital Territory Housing, Australian Capital Territory Transport and Australian Capital Territory Suspense. In addition, details of the financial transactions of the following public corporations are also covered: Australian Capital Territory Electricity Authority, Commonwealth Brickworks, National Capital Development Commission, the Canberra Theatre Trust, and the Canberra College of Advanced Education. Revenue derived by the Commonwealth Government from income taxes, sales tax, etc. levied in the Australian Capital Territory and outlay on items of a national character such as defence, civil aviation, railways, etc., and payments to residents from the National Welfare Fund are not included.

AUSTRALIAN CAPITAL TERRITORY: RECEIPTS AND OUTLAY (\$'000)

| | (\$'000) | | | | |
|---|---------------|---------|---------|-------------|---------|
| | 1970-71 | 1971-72 | 1972-73 | 1973–74 | 1974–75 |
| | RECEIPT | 5 | | | |
| Taxation— | | | | | |
| Rates on land | 1,383 | 4,362 | 5,166 | 6,134 | 7,135 |
| Liquor | 340 | 387 | 458 | 589 | 710 |
| Vehicle registration fees | 937 | 1,090 | 1,236 | 1,818 | 2,751 |
| Payroll tax | | 1,974 | 3,136 | 4,922 | 10,318 |
| Stamp duties | 2,475 | 2,561 | 3,589 | 3,995 | 3,433 |
| Other taxes, fees, fines, etc | 258 | 318 | 1,046 | 1,283 | 1,353 |
| Interest, rent, etc | 7,208 | 7,689 | 11,904 | 13,728 | 13,463 |
| Income from public enterprises | 1,696 | 3.048 | 3,351 | 2,485 | 905 |
| Net sale of public corporation securities . | 588 | 432 | -38 | -102 | -214 |
| Other receipts | 2,342 | 2,219 | 653 | 1,018 | 643 |
| Net charge to Commonwealth Government | 2,342 | 2,217 | 055 | 1,010 | 043 |
| budget | 84,430 | 91,577 | 97,630 | 166,576 | 261,909 |
| Tradel manifests | 101 689 | 115,658 | 128,131 | 202,446 | 302,406 |
| Total receipts | 101,658 | 113,036 | 120,131 | 202,440 | 302,400 |
| · | OUTLAY | · | | | |
| The | _, | | | | |
| Final consumption expenditure— | 3,244 | 4,671 | 6,083 | 7,390 | 10,421 |
| Law, order and public safety | 13,352 | 15,828 | 22,022 | 32,026 | 49,021 |
| Education | | 7,743 | , | | , |
| Health, social security and welfare . | 6,514 | | 9,453 | 15,948 | 23,853 |
| Other | 19,680 | 19,575 | 30,202 | 29,035 | 43,042 |
| Expenditure on new fixed assets and stocks— | 0.400 | 0.050 | 10.041 | 4.7.00.7 | 22.110 |
| Education | 8,682 | 9,952 | 10,041 | 15,385 | 22,110 |
| Health, social security and welfare | 5,174 | 8,359 | 8,344 | 4,935 | 11,004 |
| Housing | —1,058 | -6,151 | -8,392 | -4,344 | 8,029 |
| Community and regional development. | 13,016 | 16,946 | 19,312 | 25,668 | 36,726 |
| Protection of the environment | 1,064 | 2,545 | 4,889 | 8,198 | 17,301 |
| Recreation and culture | 1,955 | 1,169 | 1,768 | 3,630 | 4,850 |
| Electricity, gas and water | 3,647 | 3,945 | 3,415 | 5,718 | 5,648 |
| Roads | 7,894 | 5,511 | 7,775 | 9,432 | 10,264 |
| Other | 14,003 | 13,391 | 23,295 | 23,417 | 28,602 |
| Net purchase of existing assets | -15,466 | -15,500 | -38,467 | -4,935 | -5,486 |
| Interest paid | 498 | 558 | 634 | 587 | 664 |
| Cash benefits | 62 | 60 | 64 | 24 | 19 |
| Subsidies | 26 | 28 | 38 | 67 | 120 |
| Net advances for housing | 18,435 | 26,053 | 26,601 | 29,076 | 29,591 |
| Grants for private capital purposes | 936 | 976 | 1,054 | 1,189 | 6,627 |
| Total outlay | 101,658 | 115,658 | 128,131 | 202,446 | 302,406 |

NORFOLK ISLAND

General description

Norfolk Island, discovered by Captain Cook in 1774, is situated in latitude 29° 03′ S., longitude 167° 57′ E. approximately. Its total area is approximately 36 square kilometres, the island being about 8 kilometres long and 5 kilometres wide. It is 1,677 kilometres from Sydney and 1,069 kilometres from Auckland. The length of the coast line is 32 kilometres, and its form that of an irregular ellipse. Except for a portion on the south side and the landing place at Cascade on the northern side, almost inaccessible cliffs rise from the water's edge. The climate is equable, the average daily maximum temperature varying between 18°C and 26°C. The average annual rainfall is 1,372 millimetres. The resident population is about 1,900.

The island served as a penal station from 1788 to 1813 and from 1825 to 1855. In 1856, 194 descendants of the *Bounty* mutineers were transferred there from Pitcairn Island.

Administration

In 1856 the island was created a distinct and separate settlement under the jurisdiction of the Governor of New South Wales. In 1897 it was made a dependency under the Governor of that Colony, and finally, by the passage of the Norfolk Island Act 1913, became a Territory of Australia. It is controlled by the Minister for Administrative Services through an Administrator. The Norfolk Island Council was established pursuant to the Norfolk Island Act 1957 and is constituted in accordance with the provisions of the Norfolk Island Council Ordinance 1960. The Council may consider and tender advice to the Administrator on any matter affecting the peace, order and good government of Norfolk Island, and must be consulted on certain legislative and financial matters. The Council comprises the Administrator as ex officio chairman and voting member and eight members elected biennially.

Economic activity

The major economic activity of the island is tourism. Primary production is not fully adequate for local needs and foodstuffs are imported from New Zealand and Australia, mainly for the tourist trade.

Primary industries. The soil on the island is particularly fertile, the climate equable and the rainfall fairly evenly distributed except for a pronounced dry period in November. This enables a wide range of temperate and semi-tropical products to be cultivated. However, the island's comparative isolation presents trading difficulties, and there is only very limited production of export crops.

Fish abound off the island. In the past a number of ventures have been formed to exploit this resource, but they have been short-lived, mainly because of the lack of a sheltered harbour. A modern whaling station was started on the island in 1955, and production commenced during the second half of 1956. Owing to a marked scarcity of whales after 1961, however, the station was closed down

An active forestry program is being carried out to increase the resources of Norfolk Island pine and to introduce suitable types of eucalypts.

Tourists. Regular sea and air services to the island are available for those who seek a quiet holiday in surroundings of beauty and historic interest. There are at present, apart from flats and unlicensed guest houses, hotels and licensed guest houses, and further accommodation is being built to meet the steadily increasing number of visitors.

Employment. A large proportion of the population derives its income from various aspects of the tourist industry including the operation of hotels and duty-free stores. The Commonwealth Government provides services through staff from the Departments of Transport and Science (Bureau of Meteorology) and teachers are seconded by the N.S.W. State Education Department. A number of clerical and other positions are available to islanders in the Norfolk Island Administration. Very few people rely for their income entirely on agricultural pursuits.

Trade, transport and communication

Imports to Norfolk Island since the 1939-45 War have risen from \$65,000 in 1945-46 to \$6.2 million in 1974-75. The major proportion (\$3 million) in 1974-75 came from Australia and the Pacific Islands while New Zealand supplied \$0.7 million. Exports in 1974-75 amounted to \$0.6 million. Exports to Australia and the Pacific Islands, the principal market, amounted to \$0.4 million, while exports to New Zealand amounted to \$140,000. No duties are chargeable on goods imported into Australia from Norfolk Island if the goods are produced or manufactured in Norfolk Island and shipped direct to Australia, and not goods which if manufactured or produced in Australia would be subject to excise duty.

Three shipping companies operate four services to Norfolk Island at approximately monthly intervals linking the Island with Australia, New Zealand and other islands in the South Pacific area.

A passenger and air freight service between Sydney and Norfolk Island is operated by Qantas Airways Ltd three times a week, and more frequently in peak periods. Air New Zealand Limited provides a service three times a week to the Island from Auckland.

There are approximately 80 kilometres of motor roads on the island. A substantial section of the population possesses private motor cars. Hire cars, taxis and scooters are available.

The island has an automatic telephone service and a radio telephone link with Sydney. A local broadcasting service is operated by the Administration.

Education

Education is free and compulsory between the ages of 6 and 15 years. The school, which is conducted for the Administration by the New South Wales Department of Education, conforms to the Australian standard of public education, ranging from kindergarten to the School Certificate (Fourth Form) examination. The number of scholars enrolled at 30 June 1975 was 308.

Some bursaries, subject to a means test, are available for pupils who wish to attend a mainland school either to continue their studies beyond the School Certificate level or undertake high school courses not available on the Island. A limited number of trainee scholarships are available for pupils who have left school and wish to undertake apprenticeship or similar training away from the Island.

Judiciary

The judicial system of Norfolk Island consists of a Supreme Court and a Court of Petty Sessions. The Supreme Court is the highest judicial authority in the Territory and is a superior court of record with original criminal and civil jurisdiction. The jurisdiction of this Court is exercised by one judge sitting in Court or, to the extent and in the cases provided by or under ordinance, sitting in Chambers. The jurisdiction of the Court of Petty Sessions is exercised by the Chief Magistrate or any three magistrates other than the Chief Magistrate.

Finance

Since Norfolk Island became a territory of the Commonwealth Government in 1913 the revenue of the territory has been supplemented by annual grants from the Commonwealth Government as internal revenue alone has not been sufficient to meet the cost of public works and services. The principal items of revenue and expenditure in recent years were as follows.

NORFOLK ISLAND: REVENUE AND EXPENDITURE (\$'000)

| | | | | (\$7000) | | | | |
|---------------------------------|---------|-----|---|-----------|---------|---------|------------|---------|
| | | -" | | 1970-71 | 1971–72 | 1972-73 | 1973-74 | 1974-75 |
| | | | | REVENUI | E | | | |
| Government grant | | | | 66 | 66 | 120 | 120 | 126 |
| Customs duty | | | | 146 | 158 | 180 | 319 | 410 |
| Liquor profit | | | | 69 | 82 | 107 | 121 | 149 |
| Company fees | | | | 51 | 89 | 164 | 145 | 198 |
| Sale of stamps | | | | 234 | 226 | 107 | 175 | 348 |
| Vehicle registration and licens | ce fees | · . | | 19 | 22 | 23 | 42 | 43 |
| Government advance (repaya | able) | | | | | 90 | | |
| All other | | • | • | 86 | 106 | 83 | 115 | 134 |
| Total revenue . | • | • | | 671 | 749 | 874 | 1,037 | 1,408 |
| | - | | E | EXPENDITU | RE | | | |
| Administration | | | | 166 | 183 | 204 | 233 | 240 |
| Education services | | | | 99 | 44 | 126 | 165 | 146 |
| Health and welfare services | | | | 64 | 79 | 91 | 8 <i>5</i> | 98 |
| Repairs and maintenance | | | | 136 | 176 | 132 | 149 | 211 |
| Postal services | | | | 122 | 75 | 58 | 108 | 150 |
| Capital works and services | | | | 142 | 154 | 197 | 63 | 128 |
| Miscellaneous services . | ٠ | | • | 31 | 30 | 30 | 32 | 104 |
| Total expenditure . | | | • | 760 | 741 | 838 | 835 | 1,077 |

HEARD ISLAND AND McDONALD ISLANDS

These islands, about 4,100 kilometres south-west of Fremantle, were transferred from the Unite d Kingdom to Australia as from 26 December 1947. The laws of the Australian Capital Territory were declared to be in force in the Territory of Heard Island and McDonald Islands by the Heard and McDonald Islands Act 1953. In 1968, the responsibility for the administration of this Act was transferred from the Minister for External Affairs to the Minister for Supply, and in 1972 the responsibility was transferred to the Minister for Science.

In December 1947 an Australian scientific station was established on Heard Island, and meteorological investigations were conducted until the station was closed in March 1955 following the establishment of Mawson station on the Antarctic mainland. Australian expeditions have since visited the island from time to time. Heard Island is about 43 kilometres long and 20 kilometres wide. The McDonald Islands are 43 kilometres to the west of Heard Island. They are small, rocky and precipitous. The first known landing on McDonald Island, the largest of the group of the same name, took place on 27 January 1971 when two members of the Australian National Antarctic Research Expeditions (ANARE) paid a short visit on their way to the Heard Island station.

AUSTRALIAN ANTARCTIC TERRITORY

An Imperial Order in Council of 7 February 1933 placed under Australian authority all the islands and territories other than Terre Adèlie situated south of 60° S latitude and lying between 160° E longitude and 45° E longitude. The Order came into force with a Proclamation issued by the Governor-General on 24 August 1936 after the passage of the Australian Antarctic Territory Acceptance Act 1933. The boundaries of Terre Adèlie were definitively fixed by a Franch Decree of 1 April 1938 as the islands and territories south of 60° S latitude lying between 136° E longitude and 142° E longitude. The Australian Antarctic Territory Act 1954 declared that the laws in force in the Australian Capital Territory, are so far as they are applicable and are not inconsistent with any ordinance made under the Act, in force in the Australian Antarctic Territory. In 1968, responsibility for the administration of this Act was transferred from the Minister for External Affairs to the Minister for Supply, and in 1972 the responsibility was transferred to the Minister for Science.

On 13 February 1954 the Australian National Antarctic Research Expeditions (ANARE) established a station on MacRobertson Land at latitude 67° 36′ S and longitude 62° 53′ E. The station was named Mawson in honour of the late Sir Douglas Mawson and was the first permanent Australian station to be set up on the Antarctic continent. Meteorological and other scientific research is conducted at Mawson, which is a centre for coastal and inland survey expenditions.

A second Australian scientific research station was established on the coast of Princess Elizabeth Land on 13 January 1957 at latitude 68° 35′ S and longitude 77° 58′ E. The station was named in honour of the late Captain John King Davis, second-in-command of two of Mawson's expeditions and master of several famous Antarctic ships. The station was temporarily closed on 25 January 1965 and re-opened on 15 February 1969. On 4 February 1959 the Australian Government accepted from the United States Government custody of Wilkes station, which was established by the United States on 16 January 1957 on Vincennes Bay at latitude 66° 15′ S and longitude 110° 32′ E. The station was named in honour of Lieutenant Charles Wilkes who commanded the 1838–42 United States expedition to the area. The station was closed on 19 February 1969 when activities were transferred to Casey station built about 2 kilometres south of Wilkes. Casey station, which was opened on 19 February 1969, was named in honour of Baron Casey, former Governor-General of Australia, in recognition of this long association with Australia's Antarctic effort.

On 1 December 1959 Australia signed the Antarctic Treaty with Argentine, Belgium, Chile, France, Japan, New Zealand, Norway, South Africa, the U.S.S.R., the United Kingdom, and the United States of America, Poland, Czechoslovakia, Denmark, the Netherlands and Romania have subsequently acceded to the Treaty. The Treaty reserves the Antarctic area south of 60° S latitude for peaceful purposes, provides for international co-operation in scientific investigation and research, and preserves, for the duration of the Treaty, the status quo with regard to territorial sovereignty, rights and claims. The Treaty entered into force on 23 June 1961. Since then the Antarctic Treaty powers have held several consultative meetings under the Treaty, the first at Canberra in July 1961.

COCOS (KEELING) ISLANDS

General description

The Cocos (Keeling) Islands, two separate atolls comprising some twenty-seven small coral islands with a total area of about 14 square kilometres, are situated in the Indian Ocean in latitude 12° 05′ S and longitude 96° 53′ E. They lie some 2,750 kilometres north-west of Perth and 3,700 kilometres almost due west of Darwin.

The main islands of the Territory are West Island, the largest, about 10 kilometres long, on which are the airport, the Administration and the community of mainland recruited employees; Home Island, where the headquarters of the Clunies-Ross Estate and Cocos Malay community are located; Direction Island; South Island; and Horsburgh Island, North Keeling Island, which forms part of the Territory, lies about 24 kilometres to the north of the group and has no inhabitants.

The main atoll is low-lying, flat, and thickly covered by coconut palms, and surrounds a lagoon which has an anchorage in the northern part but which is extremely difficult for navigation.

The climate is equable and pleasant, usually being under the influence of the south-east trade winds for about three-quarters of the year. However, the winds vary at times, and meteorological reports from the Territory are particularly valuable for those engaged in forecasting for the eastern Indian Ocean. The temperature varies between 21°C and 32°C, and the average yearly rainfall is about 2,513 mm. There are occasional violent storms. The estimated population at 30 June 1975 was 604.

History and administration

Summarised particulars of the discovery of the islands and their history up to 1946, when they became a dependency of the Colony of Singapore, are given in Year Book No. 51, page 140, and in earlier issues. On 23 November 1955 the Cocos Islands ceased to form part of the Colony of Singapore and were placed under the authority of Australia. The transfer was effected by an Order in Council made by Her Majesty Queen Elizabeth the Second under the Imperial Act entitled the Cocos Islands Act 1955 and by the Cocos (Keeling) Islands Act 1955 of the Commonwealth Parliament whereby the islands were declared to be accepted by Australia as a Territory to be known as the Territory of Cocos (Keeling) Islands.

Responsibility for the administration of the Territory rests with the Minister for Administrative Services. An Administrator was appointed to administer the Territory on behalf of Australia on 23 July 1975 under the Cocos Administration Ordinance. This Ordinance provides for an upgrading of the level of Government representation in the Territory. Until 23 July 1975, an official Representative, appointed by the Minister under the then Official Representative Ordinance 1955, exercised such powers and functions in relation to the Territory as were delegated to him by the Minister under the Cocos (Keeling) Islands Act 1955 or were otherwise conferred on him under that Act or under any other law of the Territory. The laws of the Colony of Singapore which were in force in the islands immediately before the date of the transfer were, with certain exceptions, continued in force by the Cocos (Keeling) Islands Act 1955. They may be amended or repealed by Ordinances made under the provisions of that Act which empower the Governor-General to make Ordinances for the peace, order and good government of the Territory.

Transport and communication

There is an airport at West Island of international standard, controlled by the Department of Administrative Services, under licence from the Department of Transport. There is a regular 3 weekly charter service routed Perth-Cocos (Keeling) Islands-Christmas Island-Perth. Under charter arrangements, a shipping service operates to the Territory at intervals of about six months. A radio teletype link with Perth is maintained by the Administration. There are local postal and telephone services, and a non-commercial broadcasting station.

CHRISTMAS ISLAND

Christmas Island is an isolated peak situated in the Indian Ocean in latitude 10° 25′ S, longitude 105° 40′ E. It is approximately 360 kilometres south from Java Head at the south entrance to Sunda Strait, 1,300 kilometres from Singapore and 2,600 kilometres from Perth. Christmas Island covers an area of about 140 square kilometres. It consists of a central plateau about 150 to 250 metres above sea level with several prominent rises up to 360 metres high. The plateau descends to the sea in a series of steep slopes alternating with terraces. Sea cliffs over 200 metres high run along a considerable portion of the coastline except in a few places, the chief of which is Flying Fish Cove, where the principal settlement is located and which is also the only anchorage.

The climate is pleasant, and the prevailing winds come from the south-east to east-south-east from May to December, but from then to April (the wet season) they occasionally shift round to between north and west. The average yearly rainfall is about 2,673 mm with a marked summer incidence. The porous nature of the ground prevents the formation of pools of water, but there are several good springs which maintain an adequate supply of fresh water for the small population and the installations. The mean average temperature is about 27°C, and does not vary greatly throughout the year.

The economy of the Territory is based entirely on the mining and extraction of phosphate, but prospects for its diversification are being explored.

At 30 June 1975 the estimated population was 3,032 (2,177 males and 855 females).

Education

From January 1975, the Government implemented in the Territory a series of new education arrangements which based the education system on an Australian curriculum. A summary of the previous arrangements are given in Year Book No. 60, page 1088, and in earlier issues.

Under the new arrangements, the Christmas Island Area School provides pre-school, primary and secondary education. The Christmas Island Technical Education Centre conducts trades and commercial courses, and also provides adult education classes and supervision of correspondence courses from the Western Australian Education Department's Technical Extension Service.

At 30 June 1975, 625 children were enrolled at the Area School and 521 students were enrolled at the Technical Education Centre.

At the end of 1975, the approved teaching staff establishments were 52 at the Area School and 6 at the Technical Education Centre.

History and administration

Summarised particulars of the history of Christmas Island up to its administration by the United Kingdom as a separate Crown Colony from 1 January 1958, pending transfer to Australia, are given in Year Book No. 51, page 141, and in earlier issues. On 1 October 1958 the island was transferred to Australia by the Christmas Island Act 1958 and an Official Representative was appointed to administer the Territory. In 1968 an Administrator was appointed, replacing the Official Representative and upgrading the level of Government representation. Responsibility for the administration and government of the Territory rests with the Minister for Administrative Services, and the Administrator manages day to day affairs in the Territory under delegation from the Minister. The laws which were in force on the island at 30 September 1958 were continued as the laws of the Territory after its transfer to Australia. They may be amended or repealed by Ordinances or by laws made under Ordinances of the Territory.

Phosphate deposits

The only commercial activity carried out is the mining of phosphate. The British Phosphate Commissioners act as managing agents for the Christmas Island Phosphate Commission. Phosphate is mined at several locations on the Island. During 1974–75, 1,411,002 tonnes of phosphate were exported to Australia and New Zealand. In addition 364 tonnes of phosphate dust were exported to South-East Asia and 1,804 tonnes went to Australia.

Transport and communication

Transport to and from the island is maintained by vessels operated under charter by the British Phosphate Commissioners as managing agents for the Christmas Island Phosphate Commission. One vessel makes regular trips between Christmas Island and Singapore-Malaysian ports, and other vessels carry phosphate to Australian ports and New Zealand.

A post office is staffed and operated by the Administration. The British Phosphate Commissioners operate an internal telephone system. A radio station is used for messages via Perth and Singapore and for communication with ships at sea. A limited power broadcasting station, VLU 2, also operates.

Regular air charter flights commenced in 1974. The charter operates every 3 weeks from Perth via the Cocos (Keeling) Islands. Charter flights also operate approximately every two weeks alternatively from Singapore and Kuala Lumpur.

CORAL SEA ISLANDS

The Coral Sea Islands were declared to be a Territory of Australia by the Coral Sea Islands Act 1969 which was slightly amended in 1973. The scattered reefs and islands, often little more than sandbanks, spread over a sea area of 1 million square kilometres with only a few square kilometres of actual land area, between the Great Barrier Reef, latitude 12°S and longitude 157° 10′ E. The Territory which is administered by the Minister for Administrative Services, has no permanent inhabitants. There is a manned weather station on Willis Island, some 500 kilometres east of Cairns and a number of unmanned facilities on various other islands in the Territory.



CHAPTER 31

MISCELLANEOUS

This chapter comprises statistics and other descriptive information not directly related to the subjects of the preceding chapters, or which it is convenient to assemble in single sections, arranged as follows: Value of Australian primary commodities produced; Indexes of agricultural production; Consumption of foodstuffs; Internal trade (retail and wholesale trade); Enterprise statistics; Industry concentration statistics; Interstate trade; Statistical organisation in Australia.

VALUE OF AUSTRALIAN PRIMARY COMMODITIES PRODUCED

The figures published in the following tables have been compiled by the Statisticians in the various States from the latest and best data available and are on a substantially uniform basis. However, marketing costs are not on a completely comparable basis between States and, in addition, accurate information is difficult to obtain for many items. In consequence, differences between States in the relationships of local to gross value should be treated with some reserve.

The classification categories Pastoral, Dairying, Poultry and Bee-farming, previously employed have been replaced by a more appropriate classification, Livestock slaughtering and other disposals, and Livestock products. Statistics relating to net value of production have been discontinued. For more detailed statistics on the value of crop production, livestock slaughtering and livestock products, refer to Chapter 22 Rural Industry.

Explanation of terms used

The following is a brief explanation of the terms used.

- (a) Gross value of production is the value placed on recorded production at the wholesale price realised in the principal markets. In general, the 'principal markets' are the metropolitan markets in each State. (In cases where commodities are consumed locally, or where they become raw material for a secondary industry, these points are presumed to be the principal markets.)
- (b) Local value (i.e. gross value of commodities produced at the place of production) is ascertained by deducting marketing costs from the gross value of commodities produced. Marketing costs include freight, cost of containers, commission, and other charges incurred in marketing.

Gross and local values of primary commodities produced involve some duplication, as they include certain primary commodities which are consumed as raw materials to produce other primary commodities (e.g. hay consumed by livestock). Values include any relevant subsidy and bounty payments.

Value of primary commodities produced, Australia

GROSS AND LOCAL VALUE OF PRIMARY COMMODITIES (EXCLUDING MINING): AUSTRALIA 1974-75 (\$'000)

| Industry | Gross production valued at principal markets | Local value— gross production valued at place of production |
|-----------------------------------|--|--|
| Crops | 3,193,393 | 2,843,948 |
| Livestock slaughterings and other | | |
| disposals(a) | 1,019,213 | 910,177 |
| Livestock products | 1,655,124 | 1,505,364 |
| Total agriculture | 5,867,730 | 5,259,489 |
| Forestry | 212,639 | 195,445 |
| Fishing | 107,775 | 99,796 |
| Hunting | 13,762 | 12,323 |
| Total forestry, fishing and | | |
| hunting | 334,176 | 307,565 |
| Total primary (excluding mining) | 6,201,906 | 5,567,054 |

⁽a) Includes adjustment for net exports (overseas and interstate) of live animals.

Gross value of primary commodities produced

GROSS VALUE OF PRIMARY COMMODITIES (EXCLUDING MINING) 1974-75 (\$'000)

| Industry | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust |
|--|---------------------------|--------------------|-------------------------|-------------------------|---------------------------|------------------------|----------------|--------------|------------------------------|
| Crops | 822,280 | 533,868 | 868,191 | 434,707 | 483,573 | 49,476 | 960 | 338 | 3,193,393 |
| Livestock slaughterings and other disposals(a) Livestock products | 337,539 492,793 | 241,425 506,829 | 193,273 163,790 | 102,786 169,943 | 102,497 258,388 | 31,707 58,588 | 9,722 1,020 | 264 3,773 | 1,019,213 1,655,124 |
| Total agriculture . | 1,652,612 | 1,282,122 | 1,225,254 | 707,436 | 844,458 | 139,771 | 11,702 | 4,375 | 5,867,730 |
| Forestry | 51,216 24,609 4,016 | 10,684 | 25,163 12,606 700 | 16,311 14,083 868 | 19,995 35,130 1,663 | 50,021 6,928 428 | 3,736 · · | 1,142 | 212,639 107,775 13,762 |
| Total forestry, fishing and hunting. | 79,841 | 65,551 | 38,469 | 31,262 | 56,788 | 57,377 | 3,7 47 | 1,142 | 334,176 |
| Total primary (ex- cluding mining) . | 1,732,453 | 1,347,673 | 1,263,723 | 738,698 | 901,246 | 197,148 | 15,449 | 5,517 | 6,201,906 |

⁽a) Includes adjustment for net exports (overseas and interstate) of live animals.

GROSS VALUE OF PRIMARY COMMODITIES (EXCLUDING MINING) AUSTRALIA

(S'000)

| Industry | 1970-71 | 1971-72 | 1972-73 | 1973-74 | 1974-75 |
|----------------------------------|-------------------|----------------|-----------|-----------|-----------|
| Crops | 1,477,425 | 1,585,084 | 1,569,723 | 2,846,095 | 3,193,393 |
| disposals(a) | 1,009,928 | 1,134,383 | 1,542,166 | 1,695,956 | 1,019,213 |
| Livestock products | 1,078,998 | 1,237,122 | 1,834,035 | 1,859,020 | 1,655,124 |
| Total agriculture | 3, <i>566,351</i> | 3,956,592 | 4,945,926 | 6,401,071 | 5,867,730 |
| Forestry | 137,168 | 151,177 | 170,574 | 193,344 | 212,639 |
| Fishing | 77,235 | 91,776 | 100,281 | 108,602 | 107,775 |
| Hunting | 10,152 | 10,185 | 12,051 | 12,451 | 13,762 |
| Total forestry, fishing and | | | | | |
| hunting | 224,555 | <i>253,138</i> | 282,906 | 314,397 | 334,176 |
| Total primary (excluding mining) | 3,790,906 | 4,209,730 | 5,228,832 | 6,715,468 | 6,201,906 |

⁽a) Includes adjustment for net exports (overseas and interstate) of live animals.

INDEXES OF AGRICULTURAL COMMODITIES PRODUCED

(In issues of the Year Book prior to No. 60, these indexes were referred to as 'indexes of farm production'. In issue No. 60., these indexes were referred to as 'indexes of agricultural production'). The two tables in this section present indexes of quantum of agricultural commodities produced, and unit value of agricultural commodities produced, by industrial groups.

Indexes of quantum of agricultural commodities produced

The quantum indexes of crops (excluding pastures), livestock slaughterings and other disposals and livestock products are indexes of the gross value of agricultural commodities produced at constant prices. The quantum index of agricultural output is an index of value of agricultural output at constant prices. The latter index relates to that part of agricultural commodities produced sold outside the agricultural sector and excludes the production of seed, feed and fodder consumed or retained on farms.

Indexes of the value of agricultural commodities produced and output at constant prices are measure of change in value after the direct affects of price changes have been eliminated. Measures of this type are, of necessity, subject to approximations and assumptions and they should not be interpreted in any precise quantitative sense.

In the main, the method used in compiling the quantum indexes has been to apply to current year quantities for individual farm commodities the corresponding average unit gross values for the weighting base period. Aggregates at constant prices (e.g. for livestock slaughterings) are then obtained by summation and converted to index numbers by dividing by the corresponding values in the reference base period. Indexes so derived may be described as fixed weights indexes, the weights of individual commodities in the aggregate measures being determined by their relative prices in the weighting base period. As prices do not all move in the same proportion or even in the same direction the choice of a particular weighting base period may affect the trend of the indexes.

In the original published series the period 1923-24 to 1927-28 was adopted as the base for revaluing each agricultural product. This series, using the fixed weights: average unit values for the period 1923-24 to 1927-28; re-computed to the reference base: average 1936-37 to 1938-39 = 100; was published in earlier issues of the Year Book (see No. 43, page 1051). For 1936-37 and later years the original series was replaced in December 1952 by a revised series in which the fixed weights of average unit values for the period 1936-37 to 1938-39 were used (with reference base; average 1936-37 to 1938-39 = 100). The regimen used for that revised series was extended and modified to include all agricultural commodities (as defined by Australian Statisticians). Certain other refinements were incorporated in those revised indexes, the principal of which was the omission of quantities of crops fed to livestock in Australia in calculating the "all farming" index.

This issue of the Year Book continues the revised series introduced in issue No. 60. The revised series was introduced in March 1974, for 1959-60 and later years, using the reference base: year 1968-69 = 100; and using as fixed weights: average unit values for the period 1968-69 to 1970-71.

INDEXES OF QUANTUM OF AGRICULTURAL COMMODITIES PRODUCED AND OUTPUT, AUSTRALIA(a)

BASE OF EACH INDEX: YEAR 1968-69 = 100

| | | | | | 1970-71 | 1971–72 | 1972–73 | 1973-74 | 1974-75 |
|--|-------|------|------|------|----------------------------------|----------------------------------|---|---|---|
| Crops— | - | _ | | | | | | | _ |
| Barley for grain . | | | | | 142.8 | 186.3 | 104.9 | 145.6 | 152.8 |
| Oats for grain . | | | | | 94.3 | 74.6 | 43.0 | 64.7 | 51.1 |
| Wheat for grain . | | | | | 53.2 | 58.0 | 44.3 | 80.4 | 76.6 |
| Other grain cereals | | | | | 241.0 | 219.5 | 192.0 | 209.1 | 187.1 |
| Sugar cane(b) . | | | | | 94.4 | 103.6 | 101.2 | 102.9 | 108.8 |
| Fruit and nuts . | | | | | 117.6 | 107.5 | 111.7 | 98.2 | 103.0 |
| Grapevines . | | | | | 105.4 | 142.5 | 105.5 | 94.9 | 123.6 |
| Vegetables . | | | | | 104.0 | 111.9 | 101.2 | 89.4 | 105.5 |
| All other crops(c) | | | | | 94.3 | 111.4 | 86.6 | 101.7 | 93.9 |
| Total | | | | | 85.1 | 92.1 | 75.2 | 93.9 | 93.7 |
| | | | | | | | | | |
| Livestock slaughtering posals— | gs an | d o | ther | dis- | | | | | |
| | gs an | id o | ther | dis- | 111.7 | 124.4 | 153.3 | 139.4 | 163.3 |
| | gs an | id o | ther | dis- | 111.7 120.0 | 124.4 135.5 | 153.3 101.8 | 69.1 | 78.8 |
| posals— Cattle and calves(d) | s an | id o | ther | dis- | | | | | |
| posals— Cattle and calves(d) Sheep and lambs | s an | | | dis- | 120.0 | 135.5 | 101.8 | 69.1 | 78.8 |
| posals— Cattle and calves(d) Sheep and lambs Pigs | s an | | | : | 120.0 112.0 | 135.5 119.9 | 101.8 145.6 | 69.1 130.1 | 78.8 108.0 |
| posals— Cattle and calves(d) Sheep and lambs Pigs Poultry | s an | | | : | 120.0 112.0 138.8 | 135.5 119.9 149.5 | 101.8 145.6 147.3 | 69.1 130.1 177.2 | 78.8 108.0 173.5 |
| posals— Cattle and calves(d) Sheep and lambs Pigs . Poultry . Total(e) | s an | | | : | 120.0 112.0 138.8 | 135.5 119.9 149.5 | 101.8 145.6 147.3 | 69.1 130.1 177.2 | 78.8 108.0 173.5 |
| posals— Cattle and calves(d) Sheep and lambs Pigs Poultry Total(e) Livestock products— | s an | | | : | 120.0 112.0 138.8 115.2 | 135.5 119.9 149.5 | 101.8 145.6 147.3 | 69.1 130.1 177.2 127.4 | 78.8 108.0 173.5 |
| posals— Cattle and calves(d) Sheep and lambs Pigs Poultry Total(e) Livestock products— Wool | s an | | | : | 120.0 112.0 138.8 115.2 | 135.5 119.9 149.5 127.9 | 101.8 145.6 147.3 142.1 | 69.1 130.1 177.2 127.4 | 78.8 108.0 173.5 142.1 |
| posals— Cattle and calves(d) Sheep and lambs Pigs Poultry Total(e) Livestock products— Wool Milk | | | | : | 120.0 112.0 138.8 115.2 | 135.5 119.9 149.5 127.9 | 101.8 145.6 147.3 142.1 83.2 101.1 | 69.1 130.1 177.2 127.4 79.3 98.8 | 78.8 108.0 173.5 142.1 89.8 93.4 |

⁽a) Indexes of value of constant prices (i.e. at average unit gross value of the 3 years ended 1970-71). (b) Sugar cane cut for crushing and planting. (c) Includes pastures and grasses. Excludes crops for green feed or silage. (d) Includes dairy cattle slaughtered. (e) Component series based on carcass weight. (f) Includes honey and beeswax. (g) Excludes seed, feed and fodder consumed or retained on farms.

Indexes of average unit gross value of agricultural commodities produced

(In issues of the Year Book prior to No. 60, these indexes were referred to as 'indexes of farm production'. In issue No. 60, these indexes were referred to as 'indexes of unit gross value of agricultural production').

The average unit value indexes of crops, livestock slaughterings and other disposals and livestock products shown in the following table measure changes in the average unit gross values of the included commodities. The average unit value index of agricultural output measures changes in average unit gross values of commodities sold outside the agricultural sector.

The average unit gross values used for each commodity in each year in the group indexes are obtained by dividing gross value of commodities produced by the quantity produced or marketed in that year. In the agricultural output index, the exclusion of production of seed and fodder crops retained within the farm sector may alter these average unit values slightly (as well as the weights) but otherwise the average unit values are the same.

The unit gross values are average amounts realised at 'principal markets' for the total quantities of relevant commodities produced or marketed in each year. In general, the 'principal markets' are metropolitan markets in each State. The average unit gross values relate to agricultural commodities produced or marketed in a particular year irrespective of the period in which payment is received by producers.

These indexes are not price indexes in the generally accepted sense because they measure not only the effects of price changes, but reflect also the effects of variations in the quality and composition of the commodities.

The indexes have been calculated by the fixed weights aggregative method. In the original published series of 'Production Price Index Numbers' the average quantities of the relevant commodities produced in the period 1923-24 to 1927-28 were used as fixed weights. This series, re-computed to

the price base: average 1936-37 to 1938-39 = 100, was published in earlier issues of the Year Book (see No. 43, page 1050). For 1936-37 and later years the original series was replaced in December 1952 by a revised series in which average quantities of each product marketed during the period 1946-47 to 1950-51 were used as fixed weights (with price base: average 1936-37 to 1938-39 = 100). In that revised series the regimen was extended and modified to include all agricultural commodities (as defined by Australian Statisticians). Certain other refinements were also incorporated in those revised indexes, the principal of which was the omission from the weights used for the 'all farming' index of quantities of crops marketed for livestock feeding in Australia.

This issue of the Year Book continues the revised series introduced in issue No. 60. The revised series was introduced in March 1974, for 1959-60 and later years, using the reference base: year 1968-69 = 100, and using as fixed weights: average quantities of the relevant commodities produced or marketed in the three years ended 1970-71. The quantity weights for the agricultural output index have been adjusted to exclude seed, feed and fodder consumed or retained on farms.

The series 'Farm products for food use: indexes of quantum' as published in previous year books, has now been discontinued.

INDEXES OF AVERAGE UNIT GROSS VALUE OF AGRICULTURAL COMMODITIES PRODUCED AND OUTPUT AUSTRALIA(a)

Base of each Index: Year 1968-69=100.

| | | | • | 1970–71 | 1971–72 | 1972–73 | 1973–74 | 1974-75 |
|------------------------------------|-----|---|------|---------|---------|---------|---------|---------|
| Crops— | | | | | | | | |
| Barley for grain | | | | 110.0 | 94.5 | 122.8 | 185.5 | 238.4 |
| Oats for grain | | | | 97.9 | 85.3 | 124.7 | 175.6 | 198.5 |
| Wheat for grain | | | | 103.9 | 109.1 | 108.6 | 223.6 | 225.4 |
| Other grain cereals . | | | | 87.7 | 86.2 | 124.1 | 170.2 | 170.2 |
| Sugar cane(b) | | | | 117.8 | 128.3 | 145.8 | 136.1 | 288.2 |
| Fruit and nuts | | | | 102.3 | 104.7 | 123.2 | 138.2 | 159.7 |
| Grapevines | | | | 96.5 | 105.7 | 138.9 | 203.4 | 180.4 |
| Vegetables | | | | 116.5 | 102.1 | 128.5 | 196.6 | 177.4 |
| All other $crops(c)$. | • | | | 91.6 | 85.9 | 129.5 | 135.3 | 145.3 |
| Total | | | | 103.4 | 103.6 | 121.8 | 181.8 | 204.0 |
| Livestock slaughterings disposals— | and | 0 | ther | | | | | |
| Cattle and calves (d) . | | | | 102.7 | 102.8 | 119.1 | 136.7 | 57.1 |
| Sheep and lambs . | | | | 81.0 | 84.5 | 160.7 | 263.7 | 128.4 |
| Pigs | | | | 107.9 | 106.8 | 97.8 | 153.1 | 189.6 |
| Poultry | | • | | 93.5 | 92.6 | 94.9 | 115.3 | 124.2 |
| Total (e) | | | | 97.9 | 98.6 | 123.9 | 163.1 | 89.9 |
| Livestock products— | | | | | | | | |
| Wool | | | | 63.9 | 79.0 | 178.1 | 184.8 | 126.5 |
| Milk | | | | 107.0 | 118.0 | 120.4 | 123.9 | 145.0 |
| Eggs | • | | • | 85.6 | 87.6 | 95.4 | 126.5 | 144.6 |
| | | | | | | 164.3 | 1/2 2 | 111 |
| Total(f) | | • | | 78.4 | 91.2 | 154.3 | 162.3 | 133.6 |

⁽a) Component unit gross values are weighted together using average quantities for the three years ended 1970-71.
(b) Sugar cane cut for crushing and planting. (c) Includes pastures and grasses. Excludes crops for green feed or silage.
(d) Includes dairy cattle slaughtered. (e) Component series based on value per unit of carcass weight. (f) Includes honey and beeswax. (g) Excludes seed, feed and fodder consumed or retained on farms.

APPARENT CONSUMPTION OF FOODSTUFFS

Apparent consumption

The estimates of total consumption and consumption per head of population in Australia in the two tables which follow have been compiled by deducting net exports from the sum of production and imports and allowing for recorded movements in stocks of the respective commodities. The absence of particulars for stocks of certain commodities has resulted in some inaccuracies in the estimates of annual consumption. Consumption of foodstuffs is measured in general at 'producer' level. As a result, no allowance is made for wastage before the foodstuffs are consumed. In recent years wastage of foodstuffs has possibly been less than previously because of more efficient distribution and storage methods. Furthermore, it is likely that the quantities of foodstuffs shown in the following pages as available for consumption have been supplemented by production by householders for their own requirements. In most cases broad estimates of non-commercial (householders') production have been made. Except in few special cases, no adjustment has been made for changes in stocks held by wholesalers and retailers. Where no allowance is made it is considered unlikely that these stocks would make any appreciable difference to consumption estimates. It is felt that the foregoing deficiencies do not seriously impair the accuracy of the estimates compiled.

The estimates of consumption per head of population shown in the second of the following tables have been derived by dividing the total apparent consumption of each commodity or commodity group in a given year by the mean population of Australia in the same period.

More detailed information on the consumption of foodstuffs is contained in the statistical bulletin: Apparent Consumption of Foodstuffs and Nutrients (10.10), issued by this Bureau.

The following tables show the apparent average annual consumption during the three-year periods ended 1938-39, 1948-49 and 1958-59, together with the data for recent years.

APPARENT CONSUMPTION OF FOODSTUFFS

APPARENT CONSUMPTION OF FOODSTUFFS: AUSTRALIA

| | Average t | hree years e | nded— | | | |
|---|----------------|---------------|----------------|----------------|----------------|--------------|
| Commodity | 1938-39 | 1948-49 | 1958-59 | 1972-73 | 1973-74 | 1974-75 |
| Grain products— | | | | | | |
| Flour (including wheatmeal for baking | | | | | | |
| and sharps) | s 583.2 | 700.8 | 801.7 | 980.2 | 1,036.4 | 1,025. |
| Ontarial and polled onto | , 12.5 15.6 | 3.0 13.8 | n.a. 13.5 | 29.0 9.4 | 27.4 8.7 | 32.3 |
| 0.1 . 1 1 | , 17.5 | 32.7 | 46.4 | 80.1 | 80.9 | n.a 88.6 |
| Other Dreaman rooms from Brain . , | • | | | | 00.5 | |
| Total grain products | , 639.8 | 759. 4 | n.a. | 1,101.0 | 1,156.7 | n.a |
| | . 331.8 | 415.4 | 492.9 | 664.4 | 666.0 | 660.9 |
| Pulse and nuts— Dried pulse | 4.6 | 7.5 | 11.3 | n.a. | n.a. | n.a |
| Decision Constability | , 4.6 , 4.3 | 13.1 | 10.9 | 24.0 | 20.7 | 24. |
| Vegetables (fresh equivalent weight)— | ,, | | , | | 20 | |
| Potatoes— | | | | | | |
| | ,, 323.6 | 431.1 | 503.4 | 635.9 | 571.2 | 707. |
| | ,, 7.5 | 5.4 | 6.2 | 7.9 | 8.0 | 8. |
| | ,, n.a. | 146.0 | 155.3 | 219.8 | 233.3 | 240. |
| Y . C | ,, 48.8 | 87.7 156.5 | 126.4 174.9 | 224.6 265.6 | 201.3 264.7 | 137. 296. |
| | ,, n.a. | 165.4 | 181.3 | 198.4 | 199.5 | 296. 209. |
| Other vegetables | ,, n.a. | 103.4 | 101.3 | 170.4 | 199.3 | 209. |
| Total vegetables | ,, n.a. | 992.1 | 1,147.3 | 1,552.2 | 1,478.0 | 1,600. |
| Fruit and fruit products— | | | | | | |
| Citation County - | ,, 99.4 | 129.2 | 156.2 | 399.7 | 421.7 | 503. |
| Other fresh fruit | . 292.8 | 302.3 | 346.9 | 474.3 | 452.4 | 447. |
| Jams | ,, 35.7 | 43.2 | 38.1 | 33.1 | 29.5 | 34. |
| Dried fruit | ,, 25.1 | 30.4 | 27.0 | 30.9 | 32.3 | 24. |
| Canned fruit | ,, 32.4 | 37.9 | 60.4 | 136.9 | 137.1 | 114. |
| Total fruit (fresh equivalent) . | ,, 540.8 | 617.7 | 702.5 | 1,197.5 | 1,205.3 | 1,249 |
| Meat (carcass weight)— | | | | | | |
| | ,, 437.2 | 378.7 | 547.0 | 511.9 | 540.4 | 868 |
| Muttan | ,, 187.1 | 156.5 | 225.2 | 193.1 | 109.0 | 115 |
| Tomb | ,, 46.7 | 87.5 | 129.7 | 244.2 | 210.4 | 242 |
| Diament | ,, 26.6 | 24.7 | 44.3 | 102.8 | 90.3 | 70 |
| Total carcass weight | ,, 697.6 | 647.3 | 946.2 | 1,052.1 | 950.1 | 1,296 |
| Samuel Community (chick) | 6.6 | | 18.2 | 22.7 | 32.4 | 10 |
| Canned meat (canned weight) Bacon and ham (cured carcass weight) | " 32.0 | 9.1 40.5 | 31.0 | 33.7 71.8 | 72.9 | 30. 67. |
| Total processed meat (carcass | | | | | | |
| agriculant maight) | ,, 58.5 | 70.6 | 74.3 | 142.4 | 140.0 | 129 |
| | | | | 474.0 | 402.0 | 400 |
| Coultry (dressed weight) Eggs and egg products (eggs in shell | ,, n.a. | n.a. | n.a. | 174.0 | 183.9 | 186 |
| weight)— | | | | | | |
| In shell | ,, 80.0 | 87.9 | 93.6 | 152.8 | 155.0 | |
| Pulp | ,, 2.9 | 8.7 | 5.8 | 8.3 | 8.9 | 8 |
| Powder | ,, | | 0.2 | 0.9 | 1.1 | 1 |
| Total case and our medicate | 82.9 | 06.6 | 99.6 | 162 1 | 165.0 | 167 |
| Total eggs and egg products . { mil doz | | 96.6 162.3 | 167.3 | 162.1 237.6 | 242.0 | 167 245 |
| • | _ | | | | | |
| ish— Fresh and frozen (edible weight) . '000 tonne | es 18.4 | 17.9 | 23.2 | 41.5 | 50.4 | 38 |
| Ailk and milk products— | .5 10.4 | 17.5 | 23.2 | 44.5 | 30.1 | 30 |
| Fluid whole milk mil litre | es 731.9 | 1,059.2 | 1,254.7 | 1,607.4 | 1,591.8 | 1,522 |
| Condensed, concentrated and evaporated | | • | • | • | • | |
| milk | es 13.4 | 26.0 | 45.3 | 56.6 | 55.0 | 56 |
| Powdered milk | ,, 8.2 | 13.1 | 22.0 | 79.3 | 66.6 | 73 |
| Infants and invalids foods | ,, 3.0 | 4.4 | 9.6 | 18.3 | 20.1 | 29 |
| Cheese | ,, 13.6 | 19.1 | 25.4 | 60.6 | 63.2 | 69 |
| Oils and fats— Butter | 103.0 | 86.1 | 120.3 | 109.0 | 104.2 | 98 |
| Margarine | ,, 103.0 | 00.1 | .20.3 | | 107.2 | |
| Table | ,, 2.8 | 3.0 | n.a. | 21.6 | 23.3 | 30 |
| Other | " 12.4 | 19.0 | 21.5 | 53.4 | 54.6 | 52 |
| leverages— | | | | | | |
| Tea | ,, 21.4 | 22.5 | 26.5 | 27.0 | 26.1 | 26 |
| Coffee(b) | . 2.0 | 3.5 | 6.0 | 16.5 | 18.5 | 15 |
| Reer . mil litre | es 364.0 | 588.6 | 1,004.6 | 1,719.8 | 1,874.3 | 1,921 |
| | 501.0 | | | | | |
| Wine mil litre Spirits mil litres alcohe | ., 19.3 | 44.7 6.2 | 50.6 7.3 | 130.0 14.3 | 148.1 16.7 | 168 16 |

⁽a) In terms of refined sugar; includes sugar content of manufactured products consumed. (b) Coffee and coffee products in terms of processed whole or ground pure coffee.

APPARENT CONSUMPTION OF FOODSTUFFS PER HEAD OF POPULATION: AUSTRALIA

| | | Average th | ree years e | nded | | | |
|--|--------|---------------|--------------|--------------|--------------|--------------|-----------|
| ommodity | | 1938-39 | 1948-49 | 1958-59 | 1972-73 | 1973-74 | 1974-75 |
| irain products— | | | | | | | |
| Flour (including wheatmeal for baking | | | | | | | |
| and sharps) | kg | 84.9 | 91.6 | 82.3 | 74.9 | 78.1 | 76. |
| Rice, whole milled | " | 1.8 2.3 | 0.4 1.8 | n.a. 1.4 | 2.2 0.7 | 2.1 0.7 | 2. |
| Oatmeal and rolled oats Other breakfast foods from grain . | ** | 2.5 | 4.3 | 4.8 | 6.1 | 6.1 | n.: 6. |
| _ | " | | 99.2 | | | | |
| Total grain products | " | 93.1 | | n.a. | 84.2 | 87.2 | 85. |
| ugar(a) ulse and nuts— | ,• | 48.3 | 54.3 | 50.6 | 50.8 | 50.2 | 49. |
| Dried pulse | ,, | 0.7 0.6 | 1.0 1.7 | 1.2 1.1 | n.a. 1.8 | n.a. 1.6 | n. 1 |
| egetables (fresh equivalent weight)- | ,, | 0.0 | • • • | | 1.0 | •.• | • |
| Potatoes— | | | | | | | |
| White | ** | 47.1 | 56.3 | 51.7 | 48.6 | 43.1 | 52 |
| Sweet | ** | 1 . 1 n.a. | 0.7 19.1 | 0.6 15.9 | 0.6 16.7 | 0.6 17.6 | 0 17 |
| Other root and bulb vegetables | " | 7.1 | 11.5 | 13.0 | 17.2 | 15.2 | ió |
| Leafy and green vegetables | " | n.a. | 20.5 | 17.9 | 20.3 | 20.0 | 22 |
| Other vegetables | " | n.a. | 21.6 | 18.6 | 15.1 | 15.0 | 15 |
| Total vegetables | ,, | n.a. | 129.7 | 117.7 | 118.5 | 111.5 | 118 |
| ruit and fruit products— | " | | | | | | |
| Citrus fruit | | 14.5 | 16.9 | 16.1 | 30.6 | 31.8 | 37 |
| Other fresh fruit | " | 42.6 | 39.5 | 35.6 | 36.3 | 34.1 | 33 |
| Jams | " | 5.2 3.7 | 5.6 | 35.6 3.9 | 2.5 | 2.2 2.4 | - 2 |
| Dried fruit | " | 3.7 | 3.9 | . 2.7 | 2.4 | 2.4 | , 1 |
| Canned fruit | 17 | 4.7 | 5.0 | 6.2 | 10.5 | 10.3 | ' 10 |
| Total fruit (fresh fruit equivalent) | ** | <i>78.7</i> | 80.7 | 71.5 | 91.5 | 90.9 | 92 |
| leat (carcass weight)— | | 62.6 | 49.5 | 66.3 | 39.1 | 40.7 | 64 |
| Beef and veal | ** | 63.6 27.2 | 20.5 | 56.2 23.1 | 14.8 | 8.2 | 8 |
| • 11 1• 1 | " | 6.8 | 20.5 11.4 | 13.3 | 18.7 | 15.9 | 18 |
| Pigmeat | " | 3.9 | 3.2 | 4.6 | 7.9 | 6.8 | * ? |
| Total carcass weight | ,, | 101.5 | 84.6 | 97.2 | 80.4 | 71.6 | 96 |
| anned meat (canned weight) | ,, | 1.0 | 1.2 | 1.9 | 2.6 | 2.4 | 2 |
| acon and ham (cured carcass weight) . | " | 4.6 | 5.3 | 3.2 | 5.5 | 5.5 | |
| Total processed meat (carcass | | 8.5 | 9.2 | 7.6 | 10.9 | 10.6 | 9 |
| equivalent weight). | " | 0.5 | 9.2 | 7.0 | 10.9 | 10.0 | - |
| oultry (dressed weight) ggs and egg products (eggs in shell weight)— | ,, | n.a. | n.a. | n.a. | 13.3 | 13.9 | 13 |
| In shell | ,, | 11.7 | 11.5 | 9.6 | 11.7 | 11.7 | 13 |
| Pulp | ,, | 0.4 | 1.1 | 0.6 | 0.6 | 0.7 | 4 |
| Powder | ,, | • • • | • • | • • • | 0.1 | 0.1 | , |
| Total eggs and egg products . [| »." | 12.1 | 12.7 255 | 10.2 206 | 12.4 218 | 12.4 219 | 1 |
| | No. | 243 | 233 | 200 | 210 | 217 | • |
| ish— Fresh and frozen (edible weight) . | kg | 2.7 | 2.4 | 2.4 | 3.2 | 3.8 | |
| filk and milk products— Fluid whole milk | litres | 106.4 | 138.7 | 128.7 | 122.8 | 120.0 | 10 |
| Condensed, concentrated and evaporated | nues | 100.4 | 130.7 | 120.7 | 122.0 | | |
| milk | kg | 2.0 | 3.4 | 4.7 | 4.3 | 4.1 | |
| Powdered milk | ,, | 1.2 | 1.7 | 2.3 | 6.1 | 5.0 | ١ : |
| Infants and invalids foods | ,, | 0.5 | 0.6 | 1.0 | 1.4 | 1.5 | |
| Cheese | ,, | 2.0 | 2.5 | 2.6 | 4.6 | 4.8 | |
| oils and fats— | | 14.9 | 11.2 | 12.3 | 8.3 | 7.9 | ı |
| Butter | " | 14.9 | 11.2 | 12.3 | 0.3 | 1.9 | |
| Table | | 0.4 | 0.4 | n.a. | 1.6 | 1.8 | 1 |
| Other | " | 1.8 | 2.4 | 2.2 | 4.1 | 4.1 | |
| leverages— | " | | | | | | |
| Tea | ** | 3.1 | 2.9 | 2.7 | 2.1 | 2.0 | |
| Coffee(b) | ** | 0.3 | 0.5 | 0.6 | 1.3 130.5 | 1.4 141.3 | 14 |
| Beer | litres | 53.2 2.7 | 76.8 5.9 | 103.2 5.0 | 130.5 | 141.3 | |
| Wine | lookai | 0.5 | 5.9 0.8 | 0.8 | 1.3 | 1.3 | 1 |
| | | | | | | | |

⁽a) In terms of refined sugar; includes sugar content of manufactured products consumed. (b) Coffee and coffee products in terms of processed whole or ground pure coffee.

Level of nutrient intake

The next table shows details of the estimated supplies of nutrients available for consumption in Australia during recent years in comparison with the annual averages for the three-year periods ended 1938-39, 1948-49 and 1958-59. The table has been compiled by the Nutrition Section of the Commonwealth Department of Health and is based on the estimates of the quantity of foodstuffs available for consumption per head of population shown in the preceding table.

ESTIMATED SUPPLY OF NUTRIENTS AVAILABLE FOR CONSUMPTION: AUSTRALIA (Per head per day)

| | Average th | aree years end | ded— | | | |
|------------------------------|------------|----------------|---------|------------|------------|------------|
| Nutrient | 1938-39 | 1948–49 | 1958–59 | 1971-72(a) | 1972-73(a) | 1973-74(a) |
| Protein- | | | | | | |
| Animal g | 58.7 | 57.4 | 59.6 | 68.3 | 65.3 | 60.5 |
| Vegetable " | 30.9 | 35.3 | 32.3 | 32.7 | 32.8 | 33.0 |
| Total " | 89.6 | 92.7 | 91.9 | 101.0 | 98.1 | 93.5 |
| Fat (from all sources) . " | 133.5 | 121.7 | 131.7 | 121.6 | 115.1 | 113.0 |
| Carbohydrate ,, | 377.4 | 424.8 | 416.7 | 409.6 | 402.0 | 423.4 |
| Calcium mg | 642.0 | 785.0 | 817.0 | 1,008.0 | 1,003.0 | 962.7 |
| Iron , | 15.4 | 15.1 | 14.0 | 14.6 | 14.0 | 13.4 |
| Vitamin A (Retinol Activity) | 4,905 | 4,630 | 4,568 | (b)1,644 | (b)1,563 | (b)1,206 |
| Vitamin C (Ascorbic acid) mg | 86.0 | 96.0 | 89.0 | 98.0 | 97.0 | 89.4 |
| Thiamin , | 1.4 | 1.5 | 1.3 | 1.6 | 1.6 | 1.6 |
| Riboflavin " | 1.7 | 1.9 | 1.8 | 2.8 | 2.8 | 2.9 |
| Niacin , | 18.7 | 17.6 | 18.6 | 20.6 | 19.6 | 19.0 |
| Energy value kilocalories | 3,117 | 3,245 | 3,297 | 3,295 | 3,176 | 3,223 |

⁽a) Not comparable with years prior to 1968-69. Figures are based on conversion factors calculated from the revised and enlarged edition of 'Tables of Composition of Australian Foods'. (b) Micrograms.

Note. One international unit (i.u.) of vitamin A is equivalent to 0.3 micrograms of retinol.

INTERNAL TRADE

Extensive statistics of retail trade have been collected and published over many years. The first full census of wholesale trade, however, was conducted as part of the integrated economic censuses of 1968-69, outlined briefly below. For a detailed description of these censuses, reference should be made to Year Book No. 56, 1970, Chapter 31.

Economic Censuses, 1968–69

For the year ended 30 June 1969 the censuses of Wholesale Trade, and of Retail Trade and Selected Services, were conducted for the first time on an integrated basis with censuses of Mining, Manufacturing, and Electricity and Gas Production and Distribution. The integration of these economic censuses was designed to increase substantially the usefulness and comparability of the kinds of statistics already being collected and published by the Bureau and to form a basis for the sample surveys which supply current economic statistics from quarter to quarter, particularly those which provide data for the quarterly national income and expenditure estimates.

The integration of these economic censuses meant that for the first time they were being collected on the basis of a common framework of reporting units and data concepts and in accordance with a standard industrial classification. As a result, the statistics for the industries covered by the censuses are now provided with no overlapping or gaps in scope, and in such a way that aggregates for certain important economic data such as value added, employment, salaries and wages. fixed capital expenditure and stocks can be obtained on a consistent basis for all sectors of the economy covered by the censuses.

The standardisation of census units in the integration of economic censuses means that the basic census unit (the establishment) in general now covers all the operations carried on under the one ownership at a single physical location. The retail establishment is thus one predominantly engaged in retailing, and the wholesale establishment one predominantly engaged in wholesaling, but the data supplied for them now cover, with a few exceptions, all activities at the location.

Establishment statistics, other than the number of establishments, also include data relating to separately located administrative offices and ancillary units serving the establishment and forming part of the business (enterprise) which owns and operates the establishment. These units, such as head offices, storage premises, transport depots and motor vehicle repair and maintainance workshops, were formerly excluded from censuses.

The summary tables shown in this section include final figures from the 1968-69 censuses of wholesale and retail trade. Further and more detailed statistics are included in separate bulletins published by the Central and State offices of this Bureau.

Wholesale Trade

The term wholesale trade is used in the wholesale census in the broad sense to include the resale (by agents or principals) of new or used goods to retailers or other wholesalers or to institutional (including government), professional or other business users (including farmers and builders). The more important types of business engaged in wholesale trade are wholesale merchants, who take title to the goods they sell; manufacturers' sales branches; commission agents, including import and export agents and purchasing agents; petroleum products distributors; and co-operative and marketing boards engaged in marketing farm products.

Each establishment in the integrated censuses is identified in terms of a particular location and all sales, employment, etc., are recorded for that location, regardless of the size of the sales territory covered, i.e. the location of customers. For this reason, all of the sales, etc., of the wholesale establishments located in the State of Victoria, for example, are credited to Victoria even though the sales territories may extend over several States.

In the tables which follow, wholesale establishments have been classified by type of operation according to the nature of the functions performed and by industry according to the Australian Standard Industrial Classification. The basis of the broad type of operation classification is the description of 'type of operation' reported by businesses for each individual wholesale establishment.

WHOLESALE ESTABLISHMENTS: SUMMARY OF OPERATIONS BY BROAD TYPE OF OPERATION: AUSTRALIA, 1968-69

| Broad type of operation | Number of estab- lish- ments at 30 June 1969 | Persons em- ployed (a) | • Wages and salaries | Turn- over | Stocks at 30 June 1968 | 1969 | Pur- chases, transfers in and selected expenses | Value added (b) | Total whole- sale sales |
|---|--|---------------------------------|-------------------------------|---------------|------------------------------|---------|--|-----------------------|----------------------------------|
| Primary produce dealers or | No. | No. | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| agents | 3,468 | 37,603 | 102.5 | 1,846.0 | 304.0 | 523.5 | 1,827.5 | 238.0 | 4,025.4 |
| Wholesale merchants— Import and/or export mer- | | | | | | | | | |
| chants | 3,171 | 35,515 | 111.5 | 2,197.1 | 300.2 | 346.0 | 1,926.9 | 316.0 | 2,411.5 |
| Other wholesale merchants | 18,489 | 210,300 | 590.8 | 8,198.0 | 1,015.6 | 1,103.0 | 6,880.7 | 1,404.8 | 8,263.2 |
| Manufacturers sales branches | | | | • | • | | | | |
| holding stocks | 1,751 | 31,464 | 101.4 | 1,550.1 | 163.8 | 187.2 | | 300.1 | 1,947.6 |
| Commission agents or brokers | 3,426 | 16,847 | 47.0 | 361.9 | 33.3 | 36.5 | 248.2 | 116.8 | 2,514.6 |
| Petroleum distributors | 2,387 | 22 186 | 77.4 | 1,660.8 | 124.6 | 141.9 | 1,339.1 | 339.0 | 2,811.3 |
| Repairers and lessors of | • | | | | | | - | | • |
| machinery and equipment . | 664 | 4,896 | 14.7 | 85.3 | 4.1 | 5.3 | 28.1 | 58.4 | 27.5 |
| Total wholesale trade . | 33,356 | 358,811 | 1,045.3 | 15,899.1 | 1,945.5 | 2,343.4 | 13,524.0 | 2,773. 0 | 22,001.1 |

For footnotes see next page

WHOLESALE TRADE

WHOLESALE ESTABLISHMENTS: 1968-69

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|---------|---------|---------|---------|---------|-------|------|--------|----------|
| Establishments at 30 June . Persons employed(a) | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| | 11,882 | 9,189 | 4,912 | 3,159 | 2,950 | 920 | 113 | 231 | 33,356 |
| | 130,387 | 102,021 | 50,521 | 32,462 | 32,192 | 8,775 | 879 | 1,574 | 358,811 |
| Wages and salaries Turnover | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| | 399.5 | 307.1 | 135.0 | 87.0 | 85.6 | 23.6 | 2.8 | 4.8 | 1,045.3 |
| | 5,749.8 | 5,120.7 | 2,130.3 | 1,226.9 | 1,271.8 | 308.6 | 35.7 | 55.4 | 15,899.1 |
| 1968 | 644.8 | 759.1 | 214.4 | 135.8 | 143.1 | 39.1 | 4.3 | 4.9 | 1,945.5 |
| | 718.2 | 1,035.1 | 230.0 | 144.9 | 162.4 | 42.4 | 4.9 | 5.6 | 2,343.4 |
| selected expenses Value added(b) Total wholesale sales | 4,769.4 | 4,571.3 | 1,795.5 | 1,006.7 | 1,057.7 | 250.7 | 28.5 | 43.9 | 13,524.0 |
| | 1,053.7 | 825.4 | 350.4 | 229.3 | 233.3 | 61.2 | 7.8 | 12.2 | 2,773.0 |
| | 8,054.8 | 6,910.6 | 2,910.4 | 1,699.5 | 1,866.6 | 435.8 | 58.1 | 65.2 | 22,001.1 |

⁽a) At end of June 1969, includes working proprietors. (b) Sales on own account, transfers out and other operating revenue plus increase (or less decrease) in the value of stocks, less purchases, transfers in and selected expenses.

WHOLESALE ESTABLISHMENTS: SUMMARY OF OPERATIONS, BY INDUSTRY CLASS AUSTRALIA, 1968-69

| Industry class | Number of establish- ments at 30 June 1969 | Persons em- ployed (a) | Wages and salaries | Turnover | Stocks at | 30 June 1969 | Purchases, transfers in and selected expenses | Value added (b) | Total wholesale sales |
|---|---|---------------------------------|--------------------------|-----------|-----------|-----------------|---|-----------------------|-----------------------------|
| | No. | No. | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 |
| General wholesalers | 428 | 9.318 | 26,451 | 346,692 | 43,949 | 46,303 | 297,513 | 51,533 | 593,244 |
| Wool selling brokers, stock and | l | 9,510 | 20,431 | 340,032 | 73,545 | 40,303 | 257,313 | • | • |
| station agents and farm suppliers | | 29,277 | 82,486 | 659,482 | 58,068 | 61,256 | 482,715 | 179,955 | 2,680,860 |
| Wool buyers and farm products wholesalers, n.e.c. | 993 | 8,401 | 25,974 | 1,437,107 | 258,629 | 495,660 | 1,602,808 | 71,329 | 2,039,371 |
| Petroleum and petroleum products | | -, | • | | 230,023 | 423,000 | 1,002,000 | • | |
| wholesalers | 2,456 | 22,558 | 75,205 | 1,669,760 | 124,984 | 142,328 | 1,345,204 | 341,900 | 2,821,141 |
| Iron and steel wholesalers | 336 | 5,610 | 19,222 | 379,367 | 60,472 | 72,483 | 337,384 | 53,995 | 485,963 |
| Metal scrap wholesalers | 325 | 2,261 | 5,664 | 89,073 | 4,856 | 5,109 | 73,966 | 15,360 | 89,918 |
| Metals and minerals wholesalers | | | | | | | | | |
| n.e.c | 197 | 2,332 | 8,252 | 350,772 | 19,939 | 24,150 | 326,768 | 28,215 | 453,879 |
| Chemical and allied products | | 6014 | 01.010 | 201 100 | CO 040 | 50 150 | 210 (10 | 72.005 | 422 101 |
| wholesalers n.e.c | 497 | 5,814 | 21,218 | 381,488 | 60,942 | 70,159 | 318,610 | 72,095 | 433,101 |
| Total, Other minerals metals and chemical wholesalers | 1,355 | 16,017 | 54,358 | 1,200,701 | 146,209 | 171,899 | 1,056,727 | 169,664 | 1,462,864 |
| Agricultural and construction | | | | | | | | | |
| machinery dealers | 2,282 | 22,048 | 61,758 | 807,384 | 176,304 | 193,634 | 656,921 | 167,792 | 777,033 |
| Tyres and motor vehicle parts | | , | , | , | 2.0,00 | , | , | , | - |
| wholesalers | 1,050 | 19,235 | 54,158 | 598,989 | 111,524 | 123,892 | 467,330 | 144,029 | 620,933 |
| Professional and scientific equip- | | - | - | • | • | - | • | - | |
| ment wholesalers | 311 | 3,524 | 10,753 | 85,764 | 19,367 | 21,849 | 64,473 | 23,773 | 89,914 |
| Dealers in business machines, in- | | | 44.045 | 404 400 | 40.005 | 20.400 | 07.470 | 402.022 | |
| cluding computers | 584 | 12,025 | 41,965 | 191,498 | 40,395 | 39,408 | 87,479 | 103,033 | 134,311 |
| wholesalers n.e.c. | 1,061 | 13,049 | 40,536 | 484,688 | 71,366 | 82,332 | 397,121 | 98,533 | 571,529 |
| Industrial machinery and equip- | 1,001 | 15,015 | .0,550 | 101,000 | 11,500 | 02,002 | 55.,121 | ,,,,,,,,, | , |
| ment wholesalers n.e.c | 1,769 | 20,980 | 69,949 | 723,453 | 142,572 | 156,608 | 578,722 | 158,767 | 808,276 |
| Total, Machinery and | | | | | | | | | |
| equipment wholesalers . | 7.057 | 90.861 | 279,124 | 2,891,775 | 561.525 | 617,722 | 2,252,045 | 695,927 | 3,001,995 |
| | | | • | | | | | • | |
| Timber wholesalers | 862 | 9,185 | 26,523 | 370,618 | 41,391 | 44,979 | 315,674 | 58,527 | 399,573 |
| Dealers in builders' hardware and materials n.e.c. | 4,057 | 40.844 | 110,182 | 1,073,353 | 136,649 | 146,296 | 855,299 | 227,703 | 1,226,008 |
| materials inc.c | 4,037 | 40,044 | 110,102 | 1,075,555 | 130,049 | 140,290 | 033,299 | 221,103 | 1,220,000 |
| Total, Building materials and suppliers wholesalers . | 4,919 | 50,029 | 136,707 | 1,443,969 | 178,040 | 191,275 | 1,170,972 | 286,233 | 1,625,581 |
| Household appliances, radio and | | | | | | | | | |
| TV wholesalers | 549 | 9,052 | 26,919 | 400,153 | 40,910 | 49,033 | 331,587 | 76,688 | 465,411 |
| China, glassware and domestic | 520 | 2 522 | 0.101 | 00.000 | 15.665 | 16 600 | 75 (42 | 22 552 | 140 400 |
| hardware wholesalers Furniture and floor coverings | 529 | 3,527 | 9,121 | 98,269 | 15,665 | 16,592 | 75,643 | 23,553 | 140,480 |
| wholesalers | 530 | 3,064 | 8,176 | 121,903 | 16,232 | 18,172 | 100,891 | 22,951 | 214,054 |
| Totul, Wholesalers of household appliances and hardware, furniture. | 1,608 | 15,643 | 44,216 | 620,325 | 72,807 | 83,797 | 508,122 | 123,192 | 819,946 |

For footnotes see next page.

WHOLESALE ESTABLISHMENTS: SUMMARY OF OPERATIONS, BY INDUSTRY CLASS AUSTRALIA, 1968-69—continued

| | Number of establish- ments t 30 June | Persons em- ployed | Wages and | | Stocks at | 30 June | Purchases, transfers in and selected | Value added | Total wholesale |
|--|--|--------------------------|----------------|------------|-----------|-----------|---|----------------|--------------------|
| Industry class | 1969 | (a) | salaries | Turnover | 1968 | 1969 | expenses | (b) | sales |
| | No. | No. | \$'000 | \$,000 | \$'000 | \$'000 | \$,000 | \$'000 | \$'000 |
| Men's and boys' clothing whole- salers | 502 | 3,789 | 10,003 | 177,910 | 23,810 | 24,488 | 150,198 | 28,390 | 261.030 |
| Women's, girls' and infants' cloth- ing wholesalers | 913 | 5,910 | 14,982 | 220,541 | 23,550 | 23,668 | 181,235 | 39,423 | 361,626 |
| Footwear wholesalers | 234 | 1,512 | 4,260 | 73,665 | 3,880 | 4,142 | 60,412 | 13,515 | 139,475 |
| Textile and textile products whole- | 231 | 1,512 | 4,200 | 75,005 | 2,000 | 7,172 | 00,412 | 15,515 | 132,413 |
| salers n.e.c | 1,252 | 9,562 | 27,147 | 428,166 | 61,938 | 66,596 | 363,807 | 69,017 | 712,751 |
| Total, Clothing, footware and textile wholesaiers | | | | | | | | | |
| n.e.c | 2,901 | 20,773 | 56 ,393 | 900,282 | 113,178 | 118,894 | 755,652 | 150,345 | 1,474,881 |
| Meat wholesalers | 451 | 4,950 | 15,330 | 494,779 | 12,032 | 16,105 | 451,318 | 47,535 | 545,623 |
| ducts wholesalers | 652 | 6,786 | 20,083 | 525,086 | 47,398 | 37,406 | 456,858 | 58,236 | 648,882 |
| Fruit and vegetables wholesalers. | 1,050 | 9,148 | 21,831 | 273,669 | 6,715 | 6,026 | 226,529 | 46,450 | 373,504 |
| Fish wholesalers | 274 | 3,326 | 7,580 | 140,803 | 9,238 | 11,581 | 121,812 | 21,333 | 156,832 |
| Eggs wholesalers | 92 | 2,270 | 5,553 | 111,079 | 4,026 | 3,709 | 100,300 | 10,462 | 102,905 |
| wholesalers | 477 | 3,539 | 8,807 | 145,424 | 8.034 | 9,740 | 125,934 | 21,195 | 169,541 |
| Beer, wine and spirits wholesalers. | 289 | 4,863 | 14,451 | 265,940 | 26,357 | 29,893 | 219,664 | 49,813 | 271,221 |
| Cigarettes, cigars and tobacco wholesalers | 195 | 3,633 | 11.607 | 435,770 | 19,713 | 20,865 | 405,044 | 31,877 | 513,443 |
| Groceries and food wholesalers | 173 | 3,033 | 11,007 | 433,770 | 15,713 | 20,803 | 403,044 | 31,077 | 313,443 |
| n.e.c | 1,199 | 18,011 | 49,167 | 1,088,429 | 88,969 | 90,963 | 962,388 | 128,038 | 1,212,356 |
| Total, Food, beverages and | | | | | | | | | |
| tobacco products whole- salers | 4,679 | 56,526 | 154,411 | 3,480,978 | 222,481 | 226,289 | 3,069,847 | 414,940 | 3,994,318 |
| Photographic equipment and sup- | | | | | | | | | |
| plies wholesalers | 149 | 2,435 | 7,156 | 81,004 | 9,992 | 12,760 | 58,592 | 25,179 | 83,659 |
| wholesalers | 419 | 2,160 | 5,090 | 61,399 | 15,479 | 16,742 | 47,657 | 15,006 | 69,963 |
| salers | 417 | 2,939 | 7,401 | 88,257 | 16,585 | 18,148 | 70,177 | 19,643 | 98,699 |
| Books, periodicals, paper and paper products wholesalers. Pharmaceutical and toilet prepara- | 1,021 | 12,132 | 34,296 | 410,459 | 55,342 | 67,095 | 334,286 | 87,926 | 500,494 |
| tions wholesalers | 854 | 12,661 | 35,393 | 426,484 | 49,091 | 51,464 | 332,047 | 96,809 | 526,371 |
| Wholesalers n.e.c | 1,122 | 7,081 | 17,651 | 180,459 | 19,173 | 21,803 | 139,663 | 43,425 | 207,677 |
| Total, Other wholesalers . | 3,982 | 39,408 | 106,988 | 1,248,063 | 165,662 | 188,011 | 982,424 | 287,987 | 1,486,859 |
| Total, Australia | 33,356 | 358,811 | 1,042,311 | 15,899,132 | 1,945,537 | 2,343,435 | 13,524,025 | 2,773,008 | 22,001,060 |

(a) At end of June 1969; includes working proprietors. (b) Sales on own account, transfers out and other operating revenue plus increase (or less decrease) in the value of stocks, less purchases, transfers in and selected expenses.

Retail Trade

The definition of 'retail trade' adopted in the 1973-74 Retail Census is the same as the definition used in previous retail censuses, i.e. the resale of new and used goods to final consumers for personal and household consumption. The bases on which previous censuses of retail establishments were conducted were described in detail in Year Book No. 56, 1970 (page 1022).

The 1973-74 Retail Census differed from previous censuses both in scope and data content. It was conducted primarily to provide data to enable a new sample of retail establishments to be selected for the Quarterly and Monthly Surveys of Retail Establishments. These surveys are conducted throughout Australia, and are the means by which estimates of the value of retail sales are obtained in the period between censuses. The surveys cover all States but do not include establishments in the Australian Capital Territory or the Northern Territory.

Bread and milk vendors, footwear repairers, motion picture theatres and laundries and dry cleaners which were included in the scope of the previous census taken in 1968-69 were excluded from the scope of the 1973-74 Retail Census. Similarly questions relating to purchases, stocks, capital expenditure, etc. which were included on the 1968-69 census forms were not included on the 1973-74 census forms.

Censuses of Retail Trade in Australia have traditionally included certain types of service establishments in their scope, in addition to retail establishments more narrowly defined. Some of the service establishments included make retail sales in appreciable volume as well as providing important services for which the statistics can be conveniently collected in the framework of the retail census.

The following service establishments were included in the 1973-74 Retail Census: cafes and restaurants (ASIC class 9211), licensed hotels, motels and wine saloons (ASIC class 9212), licensed clubs (ASIC classes 9221-9223), and hairdressers (ASIC classes 9321-9322).

Because of the changes which have occurred in the definition of census units, the scope of the census and the items of data collected, it is not possible to make direct comparisons between the figures obtained from the 1973-74 Retail Census and those obtained from previous retail censuses or from the monthly and quarterly retail surveys based on previous retail censuses. For further information concerning such changes and their effects on comparisons with other statistics of retail trade, reference should be made to Year Book No. 56, 1970 Chapter 31, and to Census of Retail Establishments and Selected Service Establishments 1973-74—Final Bulletins.

RETAIL ESTABLISHMENTS AND SELECTED SERVICE ESTABLISHMENTS: SUMMARY OF OPERATIONS, BY INDUSTRY CLASS, AUSTRALIA, 1973-74

| | Number of establish- ments Employment at end of Wages at June 1974(a) and 30 June — Salaries Retail | | P-v-il | Whole- | Other operat- | | | | |
|---|---|--|---|---|---------------------------------------|---|---------------------------------|----------------------------------|---|
| Industry Class | 1974 | Males Females Perso | | Persons | Salaries (b) | Sales | sale Sales | ing revenue | Turnover |
| | | RETA | IL ESTA | BLISHMI | ENTS | | | | |
| | No. | No. | No. | No. | \$m | \$m | \$m | \$m | \$m |
| Department stores Variety and general stores . | 296 1,376 | 28,914 7,807 | 61,097 24,485 | 90,011 32,292 | 315.5 91.7 | 1,870.3 529.5 | 56.6 28.4 | 36.5 15.6 | 1,963.4 573.5 |
| Total, Department variety | | | | | | | | | |
| and general stores . | 1,672 | 36,721 | 85,582 | 122,303 | 407.2 | 2,399.8 | 85.0 | 52.1 | 2,536.9 |
| Supermarkets Grocers and tobacconists Butchers Fruit and vegetable stores Liquor Stores | 915 19,473 8,460 4,368 955 | 21,163 25,030 23,600 6,609 3,300 | 31,919 41,030 5,915 8,459 2,435 | 53,082 66,060 29,515 15,068 5,735 | 136.7 89.4 93.8 17.6 12.7 | 1,563.6 1,624.5 831.2 251.1 185.2 | 5.1 7.4 5.3 3.2 1.5 | 1.3 10.6 0.1 0.2 0.7 | 1,570.1 1,642.5 836.6 254.5 187.3 |
| Confectionery and soft drink stores | 6,171 | 6,368 | 15,520 | 21,888 | 26.5 | 252.6 | 0.3 | 10.4 | 263.4 |
| Fish, chip and hamburger shops | 5,343 2,272 | 9,608 4,014 | 13,229 9,075 | 22,837 13,089 | 28.1 24.3 | 259.7 106.0 | 0.7 1.7 | 9.8 1.3 | 270.2 108.9 |
| Total, Food stores . | 47,957 | 99,692 | 127,582 | 227,274 | 429.0 | 5,073.8 | 25.1 | 34.5 | 5,133.5 |
| Furniture and floor covering stores Fabrics and household textile | 2,686 | 10,527 | 5,244 | 15,771 | 59.9 | 606.4 | 2.9 | 4.4 | 613.8 |
| stores | 2,921 3,250 | 3,183 9,192 | 9,482 5,925 | 12,665 15,117 | 30.3 44.2 | 228.1 373.0 | 1.9 1.0 | 1.2 2.5 | 231.3 376.5 |
| wear stores Footwear stores | 8,173 2,304 | 4,216 3,190 | 28,755 7,764 | 32,971 10,954 | 76.7 28.1 | 641.6 226.9 | 0.9 0.8 | 0.9 0.9 | 643.4 228.6 |
| Total, Clothing, fabrics and furniture stores. | 19,334 | 30,308 | 57,170 | 87,478 | 239.2 | 2,076.1 | 7.5 | 10.0 | 2,093.6 |
| Household appliance stores . | 3,002 | 12,144 | 6,501 | 18,645 | 76.8 | 700.8 | 13.1 | 53.5 | 767.3 |
| Household electric appliance repairers | 1,560 | 4,619 | 1,532 | 6,151 | 19.1 | 6.0 | 2.0 | 49.9 | 57.9 |
| China, glassware and do- mestic hardware stores . Watchmakers and jewellers . Musical Instrument and | 2,142 2,211 | 4,580 3,484 | 4,604 5,656 | 9,184 9,140 | 22.9 22.6 | 145.0 152.8 | 29.7 0.4 | 6.9 17.1 | 181.6 170.3 |
| record stores | 819 | 1,798 | 1,751 | 3,549 | 10.1 | 105.5 | 2.0 | 1.8 | 109.3 |
| Total, Household appliance and hardware stores . | 9,734 | 26,625 | 20,044 | 46,669 | 151.5 | 1,110.0 | 47.2 | 129.2 | 1,286.4 |

For footnotes see following table.

RETAIL ESTABLISHMENTS AND SELECTED SERVICE ESTABLISHMENTS: SUMMARY OF OPERATIONS, BY INDUSTRY CLASS, AUSTRALIA, 1973-74—continued

| | Number of establish- ments at | | vment at er ne 1974(a) | nd of | Wages and | n . d | Whole- | Other operat- | |
|--|---|------------------|---------------------------|------------------|-----------------|-----------------|---------------|------------------|------------------|
| Industry Class | 30 June 1974 | Males | Females | Persons | Salaries (b) | Retail Sales | sale Sales | ing revenue | Turnover |
| | R | ETAIL E | STABLISI | IMENTS- | -continue | d | | | |
| N | No. | No. | No. | No. | \$m | \$m | \$m | \$m | \$m |
| New motor vehicle dealers and motor vehicle re- pairers n.e.c. | 8,474 | 70,179 | 15,381 | 85,560 | 361.2 | 2,892.3 | 891.4 | 464.3 | 4,248.1 |
| Used motor vehicle and | | - | | - | | | | | - |
| parts dealers Tyre and battery retailers and | 2,586 | 11,092 | 2,343 | 13,435 | 60.8 | 763.7 | 202.9 | 14.6 | 981.1 |
| tyre retreaders | 1,628 | 10,306 | 1,438 | 11,744 | 52.3 | 321.5 | 52.2 4.8 | 29.6 | 403.3 |
| Service stations | 9,952 4,006 | 39,371 19,118 | 13,034 2,420 | 52,405 21,538 | 109.7 71.1 | 1,051.9 7.3 | 1.1 | 162.3 227.8 | 1,219.0 236.2 |
| Motor cycle dealers | 641 | 2,740 | 762 | 3,502 | 11.8 | 87.4 | 49.5 | 9.0 | 145.9 |
| Boat and caravan dealers | 883 | 3,001 | 1,067 | 4,068 | 14.7 | 215.9 | 20.6 | 8.3 | 244.9 |
| Total, Motor vehicle dealers, petrol and tyre | 003 | 5,001 | 1,001 | 4,000 | * * * * * | 210.5 | | | |
| retailers | 28,170 | 155,807 | 36,445 | 192,252 | 681.6 | 5,340.0 | 1,222.5 | 915.9 | 7,478.4 |
| Pharmacies | 5,773 | 9,455 | 21,451 | 30,906 | 80.6 | 612.0 | 1.9 | 4.2 | 618.0 |
| stores | 390 | 879 | 572 | 1,451 | 4.7 | 43.4 | 0.4 | 1.3 | 45.1 |
| toy shops Newsagents, stationers and | 2,302 | 4,190 | 3,190 | 7,380 | 14.7 | 158.0 | 3.7 | 4.1 | 165.8 |
| booksellers Antique and second hand | 4,185 | 7,575 | 11,896 | 19,471 | 39.4 | 416.5 | 4.3 | 4.0 | 424.9 |
| goods dealers | 2,838 | 2,670 | 2,720 | 5,390 | 8.2 | 70.3 | 0.5 | 1.2 | 72.1 |
| Nurserymen and florists . | 1,918 | 2,071 | 3,952 | 6,023 | 10.0 | 59.3 | 0.7 | 0.6 | 60.6 |
| Retailers n.e.c | 2,733 | 3,596 | 4,366 | 7,962 | 13.5 | 101.6 | 1.8 | 11.3 | 114.7 |
| Total, Other retailers . | 20,139 | 30,436 | 48,147 | 78,58 <i>3</i> | 171.2 | 1,461.1 | 13.4 | 26.7 | 1,501.2 |
| Total retail establishments | 127,006 | 379,589 | 374,970 | 754,559 | 2,079.7 | 17,460.9 | 1,400.7 | 1,168.4 | 20,030.1 |
| | SEI | LECTED | SERVICE | ESTABL | ISHMEN | TS | | | |
| Cafes and restaurants | 5,123 | 18,101 | 30,746 | 48,847 | 107.3 | 90.7 | 0.1 | 292.6 | 383.4 |
| Licensed Hotels, Motels and Wine Saloons | 6,355 | 45,263 | 58,125 | 103,388 | 309.6 | 1,200.2 | 1.6 | 332.5 | 1,534.2 |
| Total, Restaurants and | | | | | | 1 300 0 | | (26.1 | 1017 6 |
| licensed hotels | 11,478 | 63,364 | 88,871 | 152,235 | 416.9 | 1,290.9 | 1.7 | 625.1 | 1,917.6 |
| Licensed bowling clubs . | 1,096 | 4,966 | 2,356 | 7,322 | 26.5 | 59.2 | 0.1 | 42.6 | 101.8 |
| Licensed golf clubs Licensed clubs n.e.c | 632 1,559 | 4,226 24,334 | 1,904 13,926 | 6,130 38,260 | 22.8 136.3 | 29.5 222.2 | 0.6 | 35.5 270.3 | 65.0 493.2 |
| Total, Licensed clubs . | 3,287 | 33,526 | 18,186 | 51,712 | 185.6 | 310.9 | 0.8 | 348.4 | 660.0 |
| Men's hairdressing . | 2,437 | 3,182 | 515 | 3,697 | 3.4 | 3.8 | | 16.6 | 20.4 |
| Women's hairdressing and beauty salons | 6,912 | 2,714 | 20,047 | 22,761 | 43.3 | 4.2 | | 110.3 | 105.5 |
| Total, Hairdressing and beauty salons | 9,349 | 5,896 | 20,562 | 26,458 | 46.7 | 8.0 | | 117.9 | 125.9 |
| Total, Selected service establishments | 24,114 | 102,786 | 127,619 | 230,405 | 649.2 | 1,609.8 | 2.5 | 1,091.3 | 2,703.6 |
| Total, Retail and selected service establishments. | 151,120 | 482,375 | 502,589 | 984,964 | 2,729.0 | 19,070.7 | 1,403.2 | 2,259.8 | 22,733.7 |

For footnotes see following tables.

RETAIL ESTABLISHMENTS AND SELECTED SERVICE ESTABLISHMENTS STATES AND TERRITORIES, 1973-74

| | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|--|--|--|--|---|--|---|--|---|--|
| No. 1 - Contablishments of | No. | No. | No. | No. | No. | No. | No. | No. | No |
| Number of establishments at 30 June 1974 Persons employed at end of June 1974(a)— | 54,273 | 42,058 | 22,181 | 13,180 | 12,438 | 4,703 | 870 | 1,417 | 151,120 |
| Males Females | 184,782 186,873 371,655 | 131,136 129,982 261,118 | 66,217 69,211 135,428 | 42,075 46,765 88,840 | 35,614 45,253 80,876 | 13,451 14,506 27,957 | 2,842 3,496 6,338 | 6,258 6,503 12,761 | 482,375 502,589 984,964 |
| Wages and Salaries(b)(c) Retail Sales(c) Wholesale Sales(c) Other operating revenue(c) Turnover(c) | \$m 1,104.6 7,052.3 575.9 997.9 8,626.1 | \$m 688.2 5,112.7 417.0 513.7 6,043.3 | \$m 367.2 2,730.0 190.1 287.9 3,208.0 | \$m 229.3 1,654.4 84.2 170.1 1,908.7 | \$m 204.2 1,568.1 106.3 175.6 1,850.0 | \$m 72.3 534.3 12.3 57.9 604.5 | \$m 21.6 136.1 7.1 19.3 162.6 | \$m 41.6 282.7 10.3 37.4 330.4 | \$m 2,729.0 19,070.7 1,403.2 2,259.8 22,733.7 |

⁽a) At end of June; includes working proprietors but excludes unpaid helpers working at least 15 hours during the week (b) Excludes drawings by working proprietors. (c) Figures relate to all establishments which operated during the year.

Value of retail sales in each commodity group, Australia, based on 1968-69 Census of Retail Establishments

The following table shows the value of retail sales of goods in each of the commodity groups specified for 1968-69 and recent years, on a comparable basis throughout. The figures for the year 1968-69 were obtained from the 1968-69 census and figures for the other years shown are estimates based on sample surveys, on a basis comparable with the 1968-69 census.

VALUE OF RETAIL SALES: COMMODITY GROUPS, AUSTRALIA(a)
(\$ million)

| Commodity group | | | | 1968-69(b) | 1972-73 | 1973–74 | 1974-75 |
|------------------------------|---------|------------|------|------------|----------|----------|----------|
| Groceries | | | | 1,449.0 | 1.944.3 | 2.229.7 | 2,612.2 |
| Butchers' meat | | | · | 648.2 | 851.4 | 1,038.4 | 1,046.4 |
| Other food(c) | | • | | 927.9 | 1,259.2 | 1,469.1 | 1,709.5 |
| Total, food and grocer | ies . | | | 3,025.1 | 4,054.9 | 4,737.2 | 5,368.1 |
| Beer, wine and spirits . | | | | 1,045.5 | 1,575.2 | 1,797.4 | 2,054.2 |
| Clothing and drapery . | | | | 1,334.9 | 1,925.1 | 2,306.4 | 2,607.7 |
| Footwear | | | | 221.8 | 304.5 | 352.5 | 389.9 |
| Hardware, china and glasswa | are(d) | | | 316.7 | 451.0 | 565.2 | 674.8 |
| Electrical goods(e) | | | | 515.0 | 833.9 | 1,034.6 | 1.312.2 |
| Furniture and floor covering | | | | 407.5 | 633.3 | 795.2 | 862.5 |
| Chemists' goods | • | • | | 433.4 | 689.3 | 772.1 | 892.0 |
| Newspapers, books and stati | | | | 314.5 | 418.7 | 492.3 | 585.5 |
| Other $goods(f)$ | - | • | | 711.3 | 1,018.9 | 1,228.1 | 1,480.9 |
| Total (excluding moto | r vehic | les, etc.) | | 8,325.7 | 11,904.8 | 14,081.0 | 16,227.8 |

⁽a) Excludes Northern Territory and Australian Capital Territory. (b) 1968-69 census results. (c) Includes fresh fruit and vegetables, confectionery, soft drinks, ice cream, cakes, pastry, cooked provisions, fish, and wrapped lunches. (d) Excludes basic building materials, builders' hardware and supplies such as tools of trade, paint, etc. (e) Includes radios, television and accessories, musical instruments, domestic refrigerators, etc. (f) Includes tobacco, cigarettes, etc., sporting goods, etc., but excludes grain and produce and business machines.

Total value of retail sales

TOTAL VALUE OF RETAIL SALES (EXCLUDING MOTOR VEHICLES, PARTS, PETROL, ETC.)
(\$ million)

| Year | | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | Aust.(a) |
|--------------|---|---------|---------|---------|---------|---------|-------|----------|
| 1968-69(b) . | | 3.196.1 | 2,409.7 | 1.098.5 | 721.0 | 650.1 | 250.3 | 8,325.7 |
| 1971-72 | - | 4,129.7 | 3,009.1 | 1,492.1 | 956.9 | 878.7 | 305.9 | 10,772.4 |
| 1972–73 | | 4,546.2 | 3,351.9 | 1.654.1 | 1.047.4 | 965.8 | 339.4 | 11,904.8 |
| 1973-74 | | 5,283.4 | 4,020.0 | 2,015.8 | 1.226.6 | 1.137.1 | 398.1 | 14,081.0 |
| 1974–75 . | | 6,002.8 | 4,606.4 | 2,337.8 | 1,456.6 | 1,346.2 | 478.0 | 16,227.8 |

Retail sales of goods at constant prices

The following table shows series of the value of retail sales of goods at constant (average 1968-69) prices. The scope of the series at constant prices is identical to that of the series at current prices. Further information concerning the sources and methods used in compiling the series is contained in the publication *Retail Sales of Goods—December quarter 1974* (Reference No. 11.4). Quarterly figures in original and seasonally adjusted terms are shown in this and subsequent issues.

Nature of the estimates at constant prices. Although money value is the only practicable measure by which the great variety of goods and services produced and exchanged can be reduced to a common unit and aggregated, it is a measure which itself is subject to change as prices change. It is therefore useful, for certain types of economic analysis, to examine estimates of the principal flows of goods and services in the economy revalued in such a way as to remove the direct effects of changes in their prices which have occurred between the periods under review. Such estimates, conventionally described as at constant prices, are presented in this publication for retail sales of goods. Whilst these estimates vary with changes in the quantities of the component goods, they remain measures in money terms, expressed in prices of a base year, and are not measures of physical volume. It is not possible either by estimates of this kind, or by any other means, to aggregate different goods in any physical sense.

In concept, the constant price estimates may be thought of as being derived by expressing the value of each retail commodity as the product of a price and a quantity, and by then substituting for each actual current price the corresponding price in the chosen base year. Aggregates at constant prices for each period are then obtained by summation. It is not possible in practice to use this method of revaluation because data on the quantities of retail commodities sold are not obtained in the Quarterly Survey of Retail Establishments. The method adopted is to use independently constructed composite price indexes to effect the revaluation.

In building up values at constant prices, quantities of individual commodities are, in effect, weighted by their prices in the base year. As prices do not all move in the same proportions, or even in the same direction, the choice of a particular base year may affect the trend of the constant price series. Furthermore the significance of price weights becomes more uncertain as the interval increases between any period and the base year of the series.

Estimates at constant prices are, of necessity, subject to approximations and assumptions, and they should not be interpreted in any precise quantitative sense.

Methods. For each of the commodity groups for which there are estimates of the value of retail sales at current prices, values at constant prices are derived by dividing the current price value by a composite price index which is specially constructed for this purpose. It should be noted that for consistency with the direct revaluation of quantities at base year prices, the price indexes used should have weights relating to the current period rather than fixed weights. However, in the main, the indexes used are of necessity fixed weights indexes and so the results of the revaluation at the commodity group level are only approximations to the desired results. The constant price estimates derived for each commodity group are combined to obtain four broad commodity groups for publication.

The price indexes used to effect the revaluation are mainly relevant components of the Consumer Price Index. Additional price information is utilised where appropriate Consumer Price Index components are not available. These price indexes are weighted together to form composite price indexes for commodity groups. In general, the weights used are derived from information collected in the Retail Censuses. 1961–62 Census data are used in the weighting of price indexes for the revaluation of the value of retail sales obtained from the quarterly surveys based on the 1961–62 Census and 1968–69 Census data are used in the weighting of price indexes for the revaluation of the value of retail sales obtained from the quarterly surveys based on the 1968–69 Census. In many cases where Retail Census data are insufficiently detailed for weighting purposes weighting information is obtained from other data sources.

VALUE OF RETAIL SALES OF GOODS AT CONSTANT (AVERAGE 1968-69) PRICES BY BROAD COMMODITY GROUPS: AUSTRALIA(a)

| | | (2 ming |)N) | | | | |
|--------------------------------|---------|------------|---------|----------------|-----------|----------|----------|
| | 1961–62 | Census Bas | se | 1968–69 | Census Ba | se | |
| Broad commodity group | 1970–71 | 1971–72 | 1968–69 | 1971-72 (b) | 1972-73 | 1973–74 | 1974-75 |
| Food and drink | 4,166.2 | 4,317.4 | 4,070.6 | 4,590.0 | 4,783.9 | 4,866.5 | 4,903.3 |
| furniture | 2,856.7 | 2.941.4 | 2,795.9 | 3,355.7 | 3,586.7 | 3,957.3 | 3,914.3 |
| Other | 1,635.2 | 1,630.7 | 1,459.2 | | 1,658.8 | 1,772.9 | 1,826.7 |
| Total (excluding motor | | | | | | | |
| vehicles, parts, petrol, etc.) | 8,658.1 | 8,889.5 | 8,325.7 | 9,554.1 | 10,029.4 | 10,596.7 | 10,644.3 |

ENTERPRISE STATISTICS—INTEGRATED ECONOMIC CENSUSES 1968–69

The first integrated economic censuses conducted by the Australian Bureau of Statistics were in respect of the year 1968-69, and included censuses of mining, manufacturing, electricity and gas production and distribution, wholesale trade, retail trade and selected service industries. A large body of establishment and commodity statistics, as well as industry concentration statistics (see page 1081) was published in respect of these censuses. In addition, detailed statistics were published in respect of enterprises* and these are summarised below.

The business units, as standardised for purposes of the integrated economic censuses, are at three levels: the establishment (and associated administrative offices and ancillary units); the enterprise; and the enterprise group.

The central unit from which statistical information was collected is the *enterprise*, defined broadly as the unit comprising all operations in Australia of a single operating legal entity. The term *legal* entity is used to cover a sole proprietor, or partnership, or company, but also includes co-operative societies and some government authorities mainly engaged in the industries included in the censuses.

The group of legal entities owned or controlled by a single company is recognised as a separate type of unit—the *enterprise group*. The basic unit for which most data were collected and tabulated is the *establishment*, defined in general as a unit comprising all the operations carried on by the one enterprise at a single physical location—such as an individual factory, shop or mine.

Each of the different levels of business unit defined above tends to be appropriate for the collection and dissemination of statistics relating to a particular aspect of economic activity. Statistics relating to aspects of economic operations are most appropriately collected and tabulated at the establishment level. With the development of more complex diverse business undertakings, especially those cutting across industrial, geographic and national boundaries, there has been an increasing interest in statistics relating to management and ownership. Such statistics are often more appropriately collected and tabulated in respect of enterprises. Statistics can also be collected and tabulated for the highest level of business unit, the enterprise group. Information about sources and uses of funds, overseas investment and the degree of concentration of ownership or control over the output of industries usually takes account of the characteristics of the enterprise group, although the information tabulated may relate to lower level units.

In the Integrated Economic Censuses, information was collected using a common framework of reporting units (enterprises and establishments as defined above) and data concepts and in accordance with a standard industrial classification (the Australian Standard Industrial Classification). As a result the statistics for the industries covered by the censuses are provided with no overlapping or gaps in scope, so that aggregates for economic data such as value added, employment, wages and salaries, fixed capital expenditure and stocks are obtained on a consistent basis for all industries and business units covered by the censuses. A detailed description of the integration of economic censuses is contained in Chapter 31, Year Book No. 56, 1970.

Definitions of data items

The information shown in the tables for the various items defined below relates to all the operations of enterprises (within the scope of the censuses) in existence at any time during the year 1968-69, unless otherwise stated.

Number of enterprises. The number of enterprises mainly engaged in mining, manufacturing, electricity and gas production and distribution, wholesale trade, retail trade and selected service industries.

Persons employed at the end of June 1969. Working proprietors at 30 June 1969 and employees on the payroll for the last pay period in June 1969. In the case of enterprises operating wholesale trade, retail trade or selected service establishments, unpaid helpers working at least 15 hours during the last week of June are included.

Wages and salaries. The wages and salaries paid during the year ended June 1969 to all employees of the enterprise.

The relevant publication is Integrated Economic Censuses 1968-69, Enterprise Statistics: Details by Industry Class, Australia (Ref. No. 17.15).

Turnover. Sales of goods to other enterprises, commission revenue and repair and service revenue received from other enterprises, government bounties and subsidies and all other operating revenue from outside the enterprise except rent and leasing revenue, interest, royalties, dividends and receipts for administrative services provided to related enterprises in Australia. Also included is the value of capital work done by the enterprise, and the value of equipment withdrawn from stock, for own use or for rental or lease outside the enterprise.

Purchases and selected expenses. Purchases by the enterprise of goods for manufacture or resale, containers, stores and supplies, together with charges for fuels and electricity, outward freight and cartage, motor vehicle running expenses, sales commission payments, repairs and maintenance, and commission and sub-contract work. Selected expenses was defined for purposes of tabulating establishment statistics and does not include wages and salaries, interest, rent, depreciation and overhead expenses such as travelling expenses, insurance premiums, legal costs, bad debts and telephone, etc. charges.

Stocks at 30 June 1968 and 30 June 1969. All the stocks of materials, fuels, etc., work-in-progress and finished goods owned by the enterprise.

Value added. Turnover, plus increase (less decrease) in the value of stocks, less purchases and selected expenses. While value added has been used in the censuses as the basic measure of an industry's contribution to total economic activity it must not be inferred that when wages and salaries are deducted from value added, the whole of the surplus is available for profit. There are additional expenses such as depreciation, workers' compensation insurance, payroll tax, income tax, rates, advertising, interest on borrowed funds, bad debts and other sundry charges which are not taken into account in arriving at value added.

Fixed capital expenditure. Outlay on new and second-hand fixed tangible assets less disposals. Includes fixed capital expenditure by enterprises for establishments not yet in operation.

Number of establishments. The number of establishments in operation during the year which were mainly engaged in mining, manufacturing, electricity and gas production and distribution, wholesale trade, retail trade and selected service industries and which were operated by enterprises mainly engaged in these industries. Establishments which were operated by these enterprises but which were not mainly engaged in any of these industries are not included in this item.

Description of tables

The first table shows summary statistics for enterprises mainly engaged in mining, manufacturing, electricity and gas production and distribution, wholesale trade, retail trade and selected service industries for the year ended 30 June 1969, for Australia. In this table, enterprises are classified by industry sub-division in accordance with the Australian Standard Industrial Classification (ASIC).

The second table shows selected statistics classified by broad industry and employment size of enterprise. Whereas the statistics in the first table relate to all enterprises which were in existence during the whole or any part of the year ended June 1969, the statistics in this table relate only to those enterprises which were in existence at the end of June 1969. For the purpose of preparing this table, enterprises were classified on the basis of the number of persons (including working proprietors and unpaid helpers) employed by the enterprise in the last pay-period in June 1969 (at the end of June 1969 in the case of working proprietors and unpaid helpers).

SUMMARY OF OPERATIONS BY INDUSTRY SUB-DIVISION, AUSTRALIA, 1968-69

| ASIC code | Industry description | Enter- prises | | Wages and salaries | Turn- over | Pur- chases and selected expenses | Stocks at- 30 June 1968 | 30 June 1969 | Value added | Fixed capital expen- diture | Estab- lish- ments (a) |
|-----------|--|------------------|-------------|--------------------------|---------------|---|-------------------------------|-----------------|----------------|--------------------------------------|---------------------------------|
| | | No. | No. | \$m | \$m | \$m | \$n ₂ | \$m | \$m | \$m | No. |
| | Mining excluding services to mining— | | | | • | •- | | V 222 | V | **** | |
| 11 | Metallic minerals | 277 | | 123 | 626 | 209 | 91 | 110 | 436 | 250 | 331 |
| 12 | Coal | п.а.; | Included wi | th ASIC S | Sub-divisio | n '13. Cru | de petrolei | ım includi: | ng natural | gas'. | |
| 13 | Crude petroleum in- cluding natural gas . | 93 | 12,599 | 63 | 219 | 93 | 13 | 16 | 129 | 164 | 146 |
| 14 | Construction materials . | 522 | 6,806 | 25 | 146 | 67 | 10 | 10 | 79 | 11 | 749 |
| 15 | Other non-metallic | 195 | 1 210 | 3 | | , | | | • | | 224 |
| | minerals | 193 | 1,210 | 3 | 15 | 6 | 1 | 2 | 9 | 10 | 234 |
| 11-15 | Total mining ex- | | | | | | | | | | |
| | cluding services to mining | 1,087 | 48,259 | 214 | 1.007 | 375 | 116 | 138 | 653 | 435 | 1,460 |
| | | 1,007 | 10,257 | 214 | 1,007 | 3,3 | 110 | 150 | 055 | 433 | 1,400 |
| 21-22 | Manufacturing— Food, beverages and to- | | | | | | | | | | |
| | bacco | 4,221 | 198,046 | 577 | 4,123 | 2,902 | 520 | 563 | 1,264 | 145 | 6,250 |
| 23 | Textiles | 820 | 61,989 | 170 | 746 | 430 | 168 | 172 | 321 | 32 | 991 |
| 24 25 | Clothing and footwear . Wood, wood products and | 3,334 | 118,021 | 250 | 851 | 467 | 144 | 155 | 395 | 19 | 3,620 |
| | furniture | 5,711 | 81,122 | 216 | 873 | 492 | 123 | 130 | 388 | 25 | 6,180 |
| 26 | Paper and paper pro- | 3,189 | 102 212 | 330 | 1 222 | 619 | 163 | 172 | 622 | 86 | 2.460 |
| 27 | ducts, printing Chemical, petroleum and | 3,109 | 102,213 | 330 | 1,232 | 019 | 103 | 172 | 022 | 40 | 3,460 |
| •• | coal products | 997 | 62,484 | 228 | 1,532 | 876 | 296 | 291 | 652 | 101 | 1,510 |
| 28 | Non-metallic mineral pro- ducts | 1.356 | 58.015 | 196 | 781 | 391 | 116 | 125 | 400 | 62 | 1,942 |
| 29 | Basic metal products . | 524 | 100,361 | 379 | 1,861 | 1,055 | 355 | 387 | 837 | 186 | 729 |
| 31 | Fabricated metal pro- | 4,607 | 109,472 | 331 | 1.294 | 713 | 220 | 234 | 596 | 45 | 5.108 |
| 32 | Transport equipment . | 1,351 | 108,031 | 355 | 1,631 | 929 | 330 | 350 | 721 | 61 | 1,560 |
| 33 | Other machinery and | • | • | | • | | | | | | • |
| 34 | equipment | 4,341 | 185,044 | 578 | 2,155 | 1,203 | 504 | 573 | 1,021 | 88 | 5,164 |
| | facturing | 2,612 | 69,919 | 203 | 826 | 450 | 160 | 176 | 392 | 41 | 2,933 |
| 21-34 | Total manufacturing. | 22.062 | 1,254,717 | 3,811 | 17.904 | 10,526 | 3.099 | 3,329 | 7,608 | 890 | 39,447 |
| 21-34 | 1 Olai manajaciaring . | 33,003 | 1,234,717 | 3,011 | 17,904 | 10,520 | 3,099 | 3,329 | 7,000 | 090 | 39,447 |
| 36 | Total electricity and | 5 0 | (0.370 | 226 | 010 | 246 | | | 671 | 20.0 | 127 |
| | gas | 59 | 60,278 | 236 | 815 | 246 | 69 | 72 | 571 | 286 | 127 |
| 46-47 | Total wholesale trade | 25,446 | 345,846 | 992 | 13,187 | 11,010 | 1,790 | 2,157 | 2,545 | 229 | 33,296 |
| 48 | Total retail trade . | 121,060 | 701,543 | 1,154 | 11,966 | 9,200 | 1,205 | 1,316 | 2,877 | 158 | 133,992 |
| 91-93 | Total selected service industries | 25,665 | 216,352 | 352 | 1,756 | 916 | 42 | 48 | 845 | 95 | 27,053 |
| | Total retail trade and selected service industries | 146,725 | 917,895 | 1,506 | 13,723 | 10,116 | 1,247 | 1,363 | 3,723 | 253 | 161,045 |
| | Total enterprises covered in censuses | 206,380 | 2,626,995 | 6,760 | 46,636 | 32,274 | 6,321 | 7,059 | 15,099 | 2,092 | 235,375 |

⁽a) Includes only establishments predominantly engaged in industries included within the scope of the censuses which were operated by enterprises within the scope of the censuses. It should be noted that the other items of data relate to the enterprise as a whole.

MISCELLANEOUS

SELECTED STATISTICS BY BROAD INDUSTRY AND EMPLOYMENT SIZE ENTERPRISES AT END OF JUNE 1969, AUSTRALIA

| ASIC code | Industry description and employment size of enterprise | | Persons employed at end of June 1969 | Wages and salaries | Turn- over | Value added | Estab- lish- ments (a) |
|--------------|--|------------|---|--------------------------|--------------------|----------------|---------------------------------|
| | | No. | No. | \$m | \$m | \$m | No. |
| 11-15 | Mining excluding services to mining— | | | | | | |
| | Less than 10 persons | 715 | 2,242 | 4.9 | 26.1 | 15.6 | 744 |
| | 10 to 19 persons | 96 | 1,267 | 4.3 | 28.1 | 17.8 | 129 |
| | 20 to 49 persons | 70 | 2,095 | 7.7 | 34.1 | 19.7 | 117 |
| | 50 to 99 persons | 42 | 2,951 | 12.7 | 46.7 | 28.9 | 76 |
| | 100 to 499 persons | 55 | 12,334 | 54.9 | 257.5 | 156.8 | 176 |
| | 500 or more persons . | 25 | 27,190 | 129.0 | 610.7 | 413.0 | 131 |
| | Total | 1,003 | 48,079 | 213.5 | 1,003.1 | 651.8 | 1,373 |
| 21-34 | _ | 40 440 | *** | | | 242.4 | |
| | Less than 10 persons . | 18,418 | 75,299 | 154.7 | 745.3 | 343.1 | 18,595 |
| | 10 to 19 persons | 5,962 | 81,209 | 215.8 | 862.3 | 385.1 | 6,306 |
| | 20 to 49 persons | 4,393 | 133,553 | 365.8 | 1,520.0 | 637.7 | 4,953 |
| | 50 to 99 persons | 1,626 | 111,846 | 321.2 | 1,488.8 | 590.3 | 2,278 |
| | 100 to 499 persons | 1,535 | 315,935 | 950.3 | 4,790.7 | 1,913.9 | 3,599 |
| | 500 or more persons . | 357 | 536,849 | 1,784.7 | 8,388.0 | 3,718.6 | 2,907 |
| | Total | 32,291 | 1,254,691 | 3,792.6 | 17,795.2 | 7,588.7 | 38,638 |
| 36 | Electricity and gas- | • 4 | | 0.2 | | 0.6 | |
| | Less than 10 persons . | 14 | 68 | 0.2 | 1.0 | 0.6 | 17 |
| | 10 to 19 persons | 4 | 59 | 0.2 | 0.6 | 0.3 | .4 |
| | 20 to 49 persons | 9 | 218 | 0.7 | 4.1 | 2.0 | 12 |
| | 50 to 99 persons | 5 | 305 | 1.0 | 5.7 | 2.0 | 7 |
| | 100 to 499 persons 500 or more persons . | 9 14 | 2,174 57,454 | 7.4 226.9 | 28.8 775.0 | 19.8 547.2 | 9 74 |
| | Total | 55 | 60,278 | 236.2 | 815.2 | 571.8 | 123 |
| 46-47 | Wholesale trade— | | | | | | |
| | Less than 10 persons . | 18,780 | 66,883 | 139.3 | 2,148.0 | 400.4 | 19,215 |
| | 10 to 19 persons | 2,887 | 38,012 | 106.2 | 1,476.8 | 264.7 | 3,547 |
| | 20 to 49 persons | 1,520 | 38,652 | 128.9 | 1,973.1 | 317.8 | 2,507 |
| | 50 to 99 persons | 492 | 33,478 | 97.8 | 1,257.8 | 244.3 | 1,367 |
| | 100 to 499 persons | 343 | 68,382 | 205.0 | 3,117.3 | 490.1 | 2,335 |
| | 500 or more persons . | 80 | 100,399 | 309.7 | 3,006.9 | 800.5 | 2,916 |
| | Total | 24,102 | 345,806 | 986.9 | 12,979.9 | 2,517.8 | 31,887 |
| 48 | Retail trade— | | | | | | |
| | Less than 10 persons . | 107,726 | 349,984 | 358.3 | 4,792.9 | 1,207.9 | 109,771 |
| | 10 to 19 persons | 5,919 | 76,122 | 155.3 | 1,354.2 | 339.5 | 8,121 |
| | 20 to 49 persons | 1,881 | 53,689 | 126.3 | 1,213.2 | 272.5 | 3,815 |
| | 50 to 99 persons | 414 | 28,412 | 71.7 | 791.7 | 168.1 | 1,461 |
| | 100 to 499 persons 500 or more persons . | 299 67 | 58,048 135,229 | 140.6 291.1 | 1,416.3 2,186.6 | 324.8 511.8 | 3,050 2,959 |
| | Total | 116,306 | 701,484 | 1,143.3 | 11,754.8 | 2,824.5 | 129,177 |
| 01 02 | | 110,500 | 701,707 | 2,140.0 | 11,757.0 | 2,027.3 | 127,177 |
| 91-93 | Selected service industries— | 10.000 | 71 272 | 00.7 | 403 6 | 220 1 | |
| | Less than 10 persons . | 19,263 | 71,372 | 80.7 | 482.5 | 228.1 | 19,437 |
| | 10 to 19 persons | 3,273 | 43,792 | 73.1 | 376.8 | 172.0 | 3,580 |
| | 20 to 49 persons | 1,687 | 49,029 | 91.1 | 453.6 | 208.2 91.3 | 2,008 |
| | 50 to 99 persons 100 to 499 persons | 331 135 | 22,149 22,269 | 41.6 44.8 | 181.4 170.7 | 100.6 | 483 |
| | 500 or more persons | 9 | 22,269 7,696 | 16.0 | 54.3 | 31.7 | 252 309 |
| | Total | 24,698 | 216,307 | 347.2 | 1,719.2 | 831.8 | 26,069 |

For footnotes see end of table.

SELECTED STATISTICS BY BROAD INDUSTRY AND EMPLOYMENT SIZE ENTERPRISES AT END OF JUNE 1969, AUSTRALIA—continued

| ASIC code | Industry description and em- ployment size of enterprise | | Persons employed at end of June 1969 | Wages and salaries | Turn- over | Value added | Estab- lish- ments (a) |
|-----------|---|-----------|---|--------------------------|---------------|----------------|---------------------------------|
| | | No. | No. | \$m | \$m | \$m | No. |
| | Total enterprises covered in | 1 | | | - | - | |
| | censuses— | | | | | | |
| | Less than 10 persons | . 164,916 | 565,848 | 738.1 | 8,195.8 | 2,195.7 | 167,779 |
| | 10 to 19 persons . | . 18.141 | 240,461 | 554.8 | 4,098.8 | 1,179.3 | 21.687 |
| | 20 to 49 persons . | . 9.560 | 277,236 | 720.5 | 5,198.1 | 1,457.8 | 13,412 |
| | 50 to 99 persons . | . 2,910 | 199,141 | 545.9 | 3,772.1 | 1,124.9 | 5,672 |
| | 100 to 400 persons | . 2,376 | , | 1,403.0 | 9.781.2 | 3,005.9 | 9,421 |
| | 500 05 5000 50000 | . 552 | . , | 2,757.5 | 15,021.7 | 6,022.8 | 9,296 |
| | Total | . 198,455 | 3,105,787 | 6,719.8 | 46,067.7 | 14,986.5 | 227,267 |

⁽a) Includes only establishments predominantly engaged in industries included within the scope of the censuses which were operated by enterprises within the scope of the censuses. It should be noted that the other items of data relate to the enterprise as a whole.

INDUSTRY CONCENTRATION STATISTICS

In 1974 the ABS published the first statistics relating to *Industry concentration* compiled from data collected in the Integrated Economic Censuses in respect of the year ended 30 June 1969*. These statistics supplement the enterprise statistics (*see* page 1077) and the large body of establishment and commodity statistics published in respect of these censuses. Industry concentration statistics have subsequently been compiled and published for the manufacturing sector from data collected in the 1972–73 Manufacting Census.†

Meaning and limitations of concentration statistics

Industry concentration statistics are concerned with providing measures of the extent to which a few firms are dominant in individual industries. They are a useful aid in assessing the degree of competition existing among firms engaged 11 an industry.

In interpreting the measures of industry concentration presented in the tables, several qualifications should be borne in mind. In particular, the use of these statistics to evaluate the competitive position of firms should be approached with caution for the following reasons:

- (a) An industry comprises all establishments (factories, shops, mines etc.) classified to it on the basis of their predominant activity (e.g. in the case of manufacturing, on the basis of the commodities which account for the major part of their production). These statistics provide measures of concentration for whole industries; they are not measures of concentration in the markets for individual commodities.
- (b) The statistics of industry concentration do not take account of the effect on domestic market supplies, of overseas imports and exports of commodities.

Types of unit

In order to consider the measurement of industry concentration it is necessary to understand the definitions of the types of business units identified and standardised for the purpose of the integrated censuses. The business units are at three levels: the establishment, the enterprise and the enterprise group (see page 1077 for the definitions of each level of unit).

Industry concentration statistics are concerned with measuring the degree of control over industry operations (as measured by establishment statistics) which is exercised by a few enterprise groups. For this purpose, only those establishments which are under common ownership or control (i.e. which are owned or controlled by the same enterprise group) and which are mainly engaged in a particular industry are brought together to represent the involvement of that enterprise group in that industry.

^{*} The relevant publication is Integrated Economic Censuses: 1968-69, Industry Concentration Statistics, Details by Industry Class, Australia (17.14).

† The relevant publication is Industry Concentration Statistics, Manufacturing Census 1972-73, Australia (12.33).

Definitions of data items

The information shown in the tables for the various items defined below* relates to establishments in operation at any time during the year 1968-69, unless otherwise stated.

Number of enterprise groups. Number of enterprise groups owning or controlling establishments which were mainly engaged in mining, manufacturing, electricity and gas production and distribution, wholesale trade, retail trade and selected service industries and which were in operation at the end of the census year.

Number of establishments. The number of establishments in operation at the end of the census year mainly engaged in the above industries.

Turnover*†. Sales of goods (including transfers out of goods to other establishments of the same enterprise); bounties and subsidies on production; all other operating revenue from outside the enterprise (such as commission, repair and service revenue); capital work done for own use or for rental or lease.

Value added. Turnover plus increase (less decrease) in the value of stocks, less purchases and selected expenses. Value added is the basic measure of an industry's contribution to total economic activity. The item purchases and selected expenses refers to purchases of goods (including transfers in of goods from other establishments of the same enterprise) for manufacture or resale, containers, stores and supplies, together with charges for fuels and electricity, outward freight and cartage, motor vehicle running expenses, sales commission payments, repairs and maintenance and commission and sub-contract work.

Persons employed at end of June. Working proprietors at 30 June and employees on payroll for the last pay period in June including those employed at separately located administrative offices and ancillary units. In the case of retail trade and selected services establishments, unpaid helpers working at least 15 hours during the last week of June are included.

Fixed capital expenditure. Outlay on new and second-hand fixed tangible assets, less disposals. Includes fixed capital expenditure during the census year on establishments not in operation by the end of the census year.

Description of tables

The tables below present a summary of industry concentration. Selected statistics and concentration ratios are shown for mining, manufacturing, electricity and gas production and distribution, wholesale trade, retail trade and selected service industries for the year ended 30 June 1969 and for manufacturing industry for the year ended 30 June 1973.

Method used to calculate concentration ratios

Establishments (and related administrative offices and ancillary units) engaged in an industry and belonging to the same enterprise group were brought together and the data reported for them were aggregated. In this way it was possible to identify the contribution to industry totals by establishments operating under common ownership or control, i.e. to measure the involvement, in terms of these items, of an enterprise group in an industry.

Enterprise groups were ranked in descending order according to the size of the contribution of their establishments to the total turnover of the industry.

For the purpose of compiling the table, the ranked enterprise groups were brought together into the following cumulative size categories: largest 12 enterprise groups; largest 25 enterprise groups; largest 50 enterprise groups; largest 100 enterprise groups; and largest 200 enterprise groups.

^{*} Concentration ratios relating to 'Turnover' are not shown in the table. However, 'Turnover' was used as the basis for ranking enterprise groups according to the size of the contribution of their establishments to an industry.

[†] Sales to establishments operated by another enterprise which is owned or controlled by the same enterprise group are included.

SELECTED STATISTICS AND CONCENTRATION RATIOS BY BROAD INDUSTRY AUSTRALIA, 1968-69

| | | | | Enterpris industry | | nked by con | tribution to | · |
|--------------|--|--------------|-------------------|-----------------------|-----------------|-----------------|-----------------|---|
| ASIC code | Industry description and i | tem | Industry total | Largest 12 | Largest 25 | Largest 50 | Largest 100 | Largest 200 |
| | | | | | | | | |
| 11-15 | Mining excluding ser- vices to mining— | | | | | | | |
| | Enterprise groups . | No. Ratio | 1,114 | 12 0.01 | 25 0.02 | 50 0.04 | 100 0.09 | 200 0.18 |
| | Establishments . | No. | 1,494 | 90 | 214 | 298 | 396 | 557 |
| | Value added | Ratio \$m | 750 | 0.06 444 | 0.14 580 | 0.20 660 | 0.27 705 | 0.37 728 |
| | | Ratio | 750 | 0.59 | 0.77 | 0.88 | 0.94 | 0.97 |
| | Persons employed at end of June 1969. | No. | 55,519 | 26,949 | 36,696 | 44,668 | 49,795 | 52,191 |
| | | Ratio | 33,319 | 0.49 | 0.66 | 0.80 | 0.90 | 0.94 |
| | Fixed capital ex- | | | | | | | |
| | penditure | \$m Ratio | 303 | 74 0.24 | 124 0.41 | 235 0.76 | . 274 0.90 | 278 0.92 |
| 21-34 | Manufacturing— | | | | | | | |
| 21 31 | Enterprise groups . | No. | 26,330 | 12 | 25 | 50 | 100 | 200 0.01 |
| | Establishments . | Ratio No. | 35,940 | 402 | 654 | 1.017 | 1,654 | 2,381 |
| | | Ratio | 55,5 10 | 0.01 | 0.02 | 0.03 | Ó.05 | 0.07 |
| | Value added | \$m Ratio | 7,475 | 1,202 0.16 | 1,568 0.21 | 2,134 0.29 | 2,814 0.38 | 3,657 0.49 |
| | Persons employed at | | | | | | | |
| | | No. Ratio | 1,289,583 | 160,698 0.12 | 212,598 0.16 | 300,720 0.23 | 407,770 0.32 | 538,038 0.42 |
| | Fixed capital expenditure | \$m | 903 | 156 | 208 | 327 | 433 | 514 |
| | | Ratio | | 0.17 | 0.23 | 0.36 | 0.48 | 0.57 |
| 36 | Electricity and gas pro- duction and dis- tribution— | | | | | | | |
| | Enterprise groups . | No. | 180 | 12 | 25 | 50 | 100 | |
| | | Ratio | 210 | 0.07 | 0.14 | 0.28 | 0.56 136 | • • |
| | Establishments . | No. Ratio | 218 | 16 0.07 | 37 0.17 | 76 0.35 | 0.62 | • |
| | Value added | \$m | 760 | 597 | 669 | 723 | 756 | |
| | Danie e a annula sand an | Ratio | | 0.79 | 0.88 | 0.95 | 0.99 | |
| | Persons employed at end of June 1969. | No. | 71,124 | 52,265 | 60,373 | 66,447 | 70,584 | |
| | | Ratio | | 0.73 | 0.85 | 0.93 | 0.99 | |
| | Fixed capital ex- | \$m | 377 | 302 | 335 | 352 | 376 | |
| | penditure | Ratio | 311 | 0.80 | 0.89 | 0.93 | 1.00 | • • |
| 46-47 | Wholesale trade— | | | | | | | |
| | Enterprise groups . | No. | 23,608 | 12 | 25 | 50 | 100 | 200 |
| | Establishments . | Ratio No. | 33,343 | 947 | 1,355 | 1,881 | 2,582 | 0.01 3,985 |
| | | Ratio | • | 0.03 | 0.04 | 0.06 | 0.08 | 0.12 |
| | Value added | \$m | 2,776 | 370 | 496 | 703 0.25 | 871 0.31 | 1,168 0.42 |
| | Persons employed at | Ratio | | 0.13 | 0.18 | 0.23 | 0.31 | 0.42 |
| | end of June 1969. | No. | 358,817 | 25,509 | 40,377 | 59,432 | 80,696 | 116,300 |
| | Fixed capital ex- | Ratio | | 0.07 | 0.11 | 0.17 | 0.22 | 0.32 |
| | penditure | \$m | 186 | 13 | 20 | 50 | 62 | 81 |
| | | Ratio | | 0.07 | 0.11 | 0.27 | 0.33 | 0.44 |

MISCELLANEOUS

SELECTED STATISTICS AND CONCENTRATION RATIOS BY BROAD INDUSTRY AUSTRALIA, 1968-69—continued

| | | | Enterpris industry | | nked by con | tribution to | |
|--------------|---------------------------------------|-------------------|-----------------------|---------------|---------------|----------------|----------------|
| ASIC code | Industry description and item | Industry total | Largest 12 | Largest 25 | Largest 50 | Largest 100 | Largest 200 |
| 48 | Retail trade- | | | | | | |
| | Enterprise groups . No Rati | | 12 | 25 | 50 | 100 | 200 |
| | Establishments . No | . 129,930 | 2,114 | 2,778 | 3,483 | 4,392 | 5,724 |
| | Rat | o | 0.02 | 0.02 | 0.03 | Ó.03 | 0.04 |
| | Value added \$ | m 2,870 | 421 | 500 | 599 | 724 | 864 |
| | Rat Persons employed at | | 0.15 | 0.17 | 0.21 | 0.25 | 0.30 |
| | end of June 1969 . No | o. 701,523 | 105,350 | 121,665 | 138,128 | 158,180 | 180,364 |
| | Rat | | 0.15 | 0.17 | 0.20 | 0.23 | 0.26 |
| | Fixed capital ex- | | | | | | |
| | | m 148 | 29 | 37 | 35 | 38 | 45 |
| | Rat | 0 | 0.20 | 0.25 | 0.24 | 0.26 | 0.30 |
| 91-93 | Selected service in- dustries— | | | | | | |
| | Enterprise groups . No Rat | | 12 | 25 | 50 | 100 | 200 0.01 |
| | Establishments . No | - | 457 | 715 | 920 | 1.021 | 1,168 |
| | Rat | | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 |
| | | m 864 | 50 | 85 | 119 | 157 | 205 |
| | Rat | | 0.06 | 0.10 | 0.14 | 0.18 | 0.24 |
| | Persons employed at | | | | **** | | |
| | end of June 1969 . N | o. 220,739 | 10,524 | 18,607 | 25,058 | 32,126 | 41,004 |
| | Rat | | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 |
| | Fixed capital ex- | • | | | | | |
| | | m 96 | 4 | 5 | 10 | 13 | 20 |
| | Rat | | 0.04 | 0.05 | 0.10 | 0.14 | 0.20 |
| | Total industries covered in censuses— | - | | | | | |
| | Enterprise groups . No | . 180,828 | 12 | 25 | 50 | 100 | 200 |
| | Rati | | 12 | | 50 | 100 | 200 |
| | Establishments . N | | 2,360 | 2,724 | 4,890 | 6,637 | 9.272 |
| | Rat | | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 |
| | | m 15,495 | 1,540 | 2,477 | 3,297 | 4,360 | 5,734 |
| | Rat | | 0.10 | 0.16 | 0.21 | 0.28 | 0.37 |
| | Persons employed at | | | | | | |
| | end of June 1969 . No | 2,697,305 | 215,416 | 303,783 | 422,333 | 566,720 | 755,064 |
| | Rat | , , | 0.08 | 0.11 | 0.16 | 0.21 | 0.28 |
| | Fixed capital ex- \$ | | 154 | 404 | 492 | 715 | 918 |
| | penditure Rati | | 0.08 | 0.20 | 0.24 | 0.36 | 0.46 |

SELECTED STATISTICS AND CONCENTRATION RATIOS BY BROAD INDUSTRY AUSTRALIA, 1972-73

| | | | Enterprise groups ranked by contribution to industry turnover | | | | | |
|--------------|-------------------------------|-------------------|---|---------------|---------------|----------------|----------------|--|
| ASIC code | Industry description and item | Industry total | Largest 12 | Largest 25 | Largest 50 | Largest 100 | Largest 200 | |
| 21-34 | Manufacturing— | | | , | | | | |
| | Enterprise groups . No. | 30,389 | 12 | 25 | 50 | 100 | 200 | |
| | Ratio | , | | | | | 0.01 | |
| | Establishments . No. | 36,437 | 452 | 788 | 1,249 | 2,001 | 2,829 | |
| | Ratio | , | 0.01 | 0.02 | 0.03 | 0.05 | 0.08 | |
| | Value added \$m | 10,746 | 1,563 | 2,156 | 3,087 | 4,189 | 5,429 | |
| | Ratio | , | 0.15 | Ó.20 | 0.29 | 0.39 | 0.51 | |
| | Persons employed at | | | | | | | |
| | end of June 1973. No. | 1,325,610 | 160,986 | 229,871 | 326,843 | 442,277 | 581,427 | |
| | Ratio | -,, | 0.12 | Ó.17 | 0.25 | Ó.33 | 0.44 | |
| | Fixed capital ex- \$m | 1,244 | 306 | 382 | 479 | 611 | 762 | |
| | penditure Ratio | -, | 0.25 | 0.31 | 0.38 | 0.49 | 0.61 | |

INTERSTATE TRADE

Prior to the federation of the Australian Colonies (now States) each Colony published statistics of its trade with the other Colonies. A similar record was continued by the Australian Government under the provisions of the Constitution (section 93). On the expiry of the 'bookkeeping' period these records were discontinued as from 13 September 1910, and the last published statements were for the year 1909. Later, the Governments of Western Australia and Tasmania revived the records, and relevant statistics are available again for those States. A detailed collection for Queensland was re-introduced from July 1953.

At the Conference of Statisticians held in January 1928 it was resolved that efforts should be made in other States to record the interstate movement of certain principal commodities. Complete interstate trade statistics are now published in detail for Queensland, Western Australia and Tasmania by the Deputy Commonwealth Statisticians in those States, and incomplete statistics, relating mainly to trade with Western Australia and Tasmania, by the Deputy Commonwealth Statisticians in the remaining States.

STATISTICAL ORGANISATION IN AUSTRALIA

A brief outline of the legislative background and current developments of the ABS is contained in the First Annual Report of the Australian Bureau of Statistics, 1975-76.

For a summary of early development of Australian statistics and the origins of the ABS see Year Book No. 60, 1974 (page 1115).

ABS Statistical and other Official Publications of Australia Publications

The Central and State offices of the Australian Bureau of Statistics issue approximately 2,400 publications (650 separate titles) in printed and mimeographed form annually. Information on these publications is contained in *Publications of the Australian Bureau of Statistics* (1.8), available free on request from the Australian Statistician, Canberra. This contains a list of all Bureau publications, a subject index to show the Central Office publications in which information on the various subjects dealt with by the Bureau is to be found, and short descriptions of major Central Office publications. The information on issues in this publication is supplemented in monthly statements. At the end of this Year Book there is a list of the current printed publications of the Central Office of the Bureau: the prices shown after the number and year of issue are, in order, price excluding postage, and price including postage in Australia.

Commonwealth and State Parliamentary and Departmental Reports and Papers

No comprehensive list of current publications of this nature is available, but the National Library of Australia issues a quarterly publication (with annual cumulation) Australian Government Publications, a list of official publications of the Commonwealth, States and Territories, compiled from records of material received by the Library during the year.

The Australian Government Publishing Service, Canberra, issues a monthly publication Australian Government Publications. This publication lists Commonwealth publications currently becoming available or in stock, showing the titles and prices of Parliamentary Papers, Parliamentary Debates (Hansard), records of Parliamentary proceedings, Acts, Statutory Rules, Ordinances, and departmental bulletins and reports issued annually or irregularly.

Australian Government publications may be purchased through the mail from Mail Order Sales, Australian Government Publishing Service, P.O. Box 84, Canberra, A.C.T. 2600; over the counter from the Government Publications and Inquiry Centres in each State capital; and ABS publications may also be purchased through the mail or over the counter from the Deputy Commonwealth Statistician in each State capital.

The National Library of Australia issues annually a publication Australian Books. See the chapter Cultural Activities, Recreation and Travel for further information concerning the National Library's publicising of Australian publications.



In earlier issues of the Year Book, it was the practice to include in the Statistical Summary figures for every tenth year of the period 1861 to 1901, plus the latest year for which data were available. In each subsequent issue the latest year available was substituted for the year immediately preceding it until the next tenth year had been reached, and the earliest year in the series was eliminated as space was needed. In consequence of this system no single issue of the Year Book contained a continuous yearly series.

In this and recent issues of the Year Book, this defect has been remedied in part by the inclusion of a continuous series back to the year 1941 where possible, with earlier tenth years back to 1901 (the National Accounts series has been carried back to 1900-01 in single years). In issue No. 39, pages xxviii-xxix, some of the series are shown for every tenth year from 1861 to 1941. There are, however, discrepancies between the original series and the series now published.

Breaks in series, preliminary figures, etc., are indicated by the symbols shown on page xiii of this Year Book.

STATISTICAL SUMMARY: AUSTRALIA DEMOGRAPHY

| Yeur ended | Popular | tion(a) | | Natural | Over- seas | Marı | iaves | Divorces (c) and iudicial | Birth | 2 | Deati | hs | Infan death | |
|-------------------|--|---|--|--|---|--|---|--|--|--|---|---|---|---|
| 31 De- cember— | Males | Fe- males | Per- sons | in- crease | migra- tion(b) | | Rate(d) | separa- tions | | Rate(d) | | Rate(d) | No. | |
| 1901 | 2,000 2,005 2,382 2,799 3,333 3,599 3,828 3,909 4,047 4,191 4,311 4,426 4,503 4,598 4,714 4,829 4,930 5,026 5,125 5,253 | 3,545 3,810 3,884 3,988 4,116 4,217 4,314 4,399 4,492 4,598 4,702 4,814 4,921 5,029 5,139 | 7,000 3,825 4,574 5,511 6,553 7,144 7,638 7,792 8,046 8,903 9,090 9,312 9,531 9,947 10,161 10,392 | '000 56.6 74.3 82.1 61.9 (f) 108.9 101.1 106.0 112.4 111.5 120.0 120.5 125.6 126.0 135.4 138.8 137.8 141.9 | '000 17.8 77.7 17.3 -10.8 (g) 10.6 55.1 150.5 111.4 94.0 94.0 94.0 765.4 765.4 765.4 | *000 28 39 47 39 75 76 75 73 76 71 71 71 71 72 72 74 74 74 74 | 7.3 8.8 8.6 6.0 10.6 10.1 9.7 9.2 9.2 9.2 9.2 8.6 8.0 7.6 7.6 7.4 7.3 | No. 398 509 1,490 1,969 3,351 8,803 7,253 6,628 7,310 7,110 8,043 6,528 6,428 6,428 7,310 6,582 6,582 6,582 6,637 6,699 7,709 | '0000 103 122 136 119 135 182 178 181 191 193 202 202 202 202 202 223 227 230 | 27.2 27.2 25.0 18.2 18.9 24.1 23.1 22.9 22.3 23.0 23.4 22.9 22.5 22.5 22.5 22.6 22.6 22.4 | '000 46 48 54 54 57 (h) 73 77 78 82 80 82 82 86 84 89 89 | 12.2 10.7 9.7 8.7 (h) 10.0 9.5 9.7 10.0 9.5 9.7 9.1 8.8 8.5 8.6 | '000 10.7 8.4 9.0 5.3 5.2 4.6 4.7 4.8 4.6 4.6 4.6 4.6 4.6 4.9 | 103 . 6 68 . 5 65 . 7 42 . 1 39 . 7 28 . 5 27 . 8 25 . 3 24 . 5 25 . 2 23 . 8 23 . 3 22 . 5 22 . 0 21 . 7 21 . 4 20 . 5 21 . 5 20 . 5 |
| 1961 | 5,374 5,470 5,572 5,657 5,794 5,891 5,992 6,108 6,238 6,365 6,484 6,570 6,656 6,656 6,656 6,818 | 5,814 5,920 6,037 6,169 6,299 6,424 6,613 6,732 6,783 | 11,705 11,912 11,705 11,912 12,1407 12,663 12,908 13,269 13,485 13,661 | (1) 151.8 144.4 141.3 129.1 119.2 126.6 131.4 143.7 144.5 165.7 155.2 136.8 129.3 | 61.5 62.5 71.6 99.3 104.9 86.9 91.9 113.1 129.0 122.9 84.6 27.8 40.4 87.1 -8.1 | 77 | 7.3 7.4 7.4 7.7 8.2 (i) 8.3 8.5 8.8 9.2 9.3 9.2 8.8 8.6 8.3 | 6,751 7,290 7,515 7,967 8,534 9,921 9,747 10,791 10,984 12,249 13,032 15,636 16,165 17,551 24,307 | 240 237 236 229 223 (i) 224 229 241 250 258 278 278 278 278 278 278 278 278 278 27 | 22.8 22.2 21.6 20.6 19.6 19.3 19.4 20.0 20.4 20.6 21.6 21.6 20.4 18.8 18.3 | (i) 100 (i) 103 110 106 113 111 110 111 110 109 | 8.5 8.7 9.0 8.8 (i) 9.0 8.7 9.1 9.1 8.7 8.7 8.4 8.7 | 4.7 4.8 4.6 4.4 4.1 (i) 4.2 4.3 4.5 4.6 4.8 4.4 4.1 | 19.5 20.4 19.5 19.1 18.5 (i) 18.7 18.3 17.8 17.9 17.9 17.3 16.5 16.1 |

⁽a) At 31 December. (b) Excess of arrivals over departures. Minus sign (—) indicates excess of departures over arrivals. (c) Decrees made absolute, including decrees for nullity of marriage. (d) Number per 1,000 of mean population. (e) Number per 1,000 live births. (f) Excess of births over civilian deaths from September 1939 to June 1947. (g) Excludes movements of defence personnel from September 1939 to June 1947. (i) Includes Aborigines.

PRIMARY INDUSTRIES

AGRICULTURE

| | | Wheat | | | Oats | | | Barley | | | Maize | | |
|----------|-----|----------|-----------------|------------------|----------|-----------------|------------------|----------|-----------------|------------------|------------|-----------------|------------------|
| Season | | Area | Pro- duction | Average yield | Area | Pro- duction | Average yıeld | Area | Pro- duction | Average yield | Area | Pro- duction | Average yield |
| | | mil | mil | | '000 | mil | - | '000 | mil | | '000 | mil | |
| | | hectares | tonnes | tonnes | hectares | tonnes | tonnes | hectares | tonnes | tonnes | hectares | tonnes | tonnes |
| 1901-02 | | 2.07 | 1.05 | 0.51 | 187 | 0.18 | 0.95 | 30 | 0.03 | 1.14 | 119 | 0.18 | 1.50 |
| 1911-12 | | 3.01 | 1.95 | 0.65 | 250 | 0.17 | 0.70 | 47 | 0.05 | 0.99 | 138 | 0.23 | 1.65 |
| 1921-22 | | 3.93 | 3.51 | 0.89 | 297 | 0.22 | 0.74 | 121 | 0.14 | 1.14 | 124 | 0.20 | 1.61 |
| 1931-32 | - 1 | 5.97 | 5.18 | 0.87 | 439 | 0.28 | 0.63 | 139 | 0.14 | 1.03 | 109 | 0.18 | 1.65 |
| 1941-42 | | 4.86 | 4.53 | 0.93 | 591 | 0.40 | 0.68 | 317 | 0.41 | 1.29 | 122 | 0.19 | 1.55 |
| 1947-48 | | 5.62 | 5.98 | 1.06 | 852 | 0.74 | 0.87 | 339 | 0.47 | 1.39 | 90 | 0.16 | 1.74 |
| 1948-49 | | 5.09 | 5.18 | 1.02 | 716 | 0.43 | 0.60 | 409 | 0.40 | 0.99 | 74 | 0.13 | 1.79 |
| 1949-50 | • | 4.95 | 5.93 | 1.20 | 707 | 0.50 | 0.70 | 421 | 0.44 | 1.05 | 78 | 0.15 | 1.94 |
| 1950-51 | • | 4.72 | 5.00 | 1.06 | 711 | 0.46 | 0.64 | 437 | 0.52 | 1.19 | 69 | 0.12 | 1.75 |
| 1951-52 | • | 4.20 | 4.34 | 1.03 | 957 | 0.63 | 0.65 | 452 | 0.50 | 1.10 | 69 | 0.10 | 1.49 |
| 1952-53 | • | 4.13 | 5.30 | 1.28 | 1,119 | 0.79 | 0.71 | 557 | 0.79 | 1.43 | 7 0 | 0.13 | i.79 |
| 1953-54 | • | 4.35 | 5.38 | 1.24 | 7,865 | 0.60 | 0.69 | 730 | 0.94 | 1.28 | 72 | 0.13 | 1.78 |
| 1954-55 | • | 4.32 | 4.58 | 1.06 | 1,042 | 0.60 | 0.57 | 684 | 0.67 | 0.97 | 69 | 0.13 | 1.88 |
| 1955-56 | • | 4.11 | 5.31 | 1.29 | 1,357 | 1.02 | 0.76 | 766 | 0.94 | 1.23 | 68 | 0.12 | 1.78 |
| 1956-57 | • | 3.19 | 3.65 | 1.15 | 1,034 | 0.64 | 0.62 | 847 | 1.12 | 1.32 | 73 | 0.14 | 1.90 |
| 1957-58 | • | 3.58 | 2.65 | 0.74 | 1,197 | 0.57 | 0.48 | 858 | 0.69 | 0.81 | 74 | 0.14 | 1.92 |
| 1958-59 | • | 4.21 | 5.84 | 1.39 | 1,608 | 1.58 | 0.98 | 963 | 1.43 | 1.48 | 73 | Ŏ. 17 | 2.35 |
| 1959-60 | | 4.93 | 5.39 | 1.09 | 1,226 | 0.85 | 0.69 | 963 | 0.78 | 0.81 | 75 | 0.17 | 2.28 |
| 1960-61 | • | 5.44 | 7.43 | 1.37 | 1,472 | 1.38 | 0.94 | 1,145 | 1.54 | 1.35 | 75 | 0.16 | 2.12 |
| 1961-62 | | 5.96 | 6.71 | 1.13 | 1,253 | 1.00 | 0.80 | 965 | 0.94 | 0.98 | 85 | 0.19 | 2.18 |
| 1962-63 | • | 6.66 | 8.34 | 1.25 | 1,332 | 1.25 | 0.94 | 820 | 0.90 | 1.09 | 85 | 0.19 | 2.23 |
| 1963-64 | • | 6.67 | 8.91 | 1.34 | 1,373 | 1.24 | 0.90 | 815 | 0.98 | 1.21 | 87 | 0.17 | 1.96 |
| 1964-65 | | 7,25 | 10.02 | 1.38 | 1,415 | 1.27 | 0.90 | 835 | 1.12 | 1.34 | 86 | 0.17 | 2.03 |
| 1965-66 | | 7.09 | 7.05 | 1.00 | 1,525 | 1.10 | 0.72 | 930 | 0.95 | 1.02 | 80 | 0.12 | 1.57 |
| 1966-67 | | 8.43 | 12.67 | 1.50 | 1,723 | 1.94 | 1.13 | 1,011 | 1.40 | 1.38 | 82 | 0.19 | 2.33 |
| 1967-68 | | 9.08 | 7.55 | 0.83 | 1,368 | 0.72 | 0.53 | 1,057 | 0.83 | 0.79 | 81 | 0.18 | 2.23 |
| 1968-69 | • | 10.85 | 14.80 | 1.37 | 1,567 | 1.71 | 1.09 | 1,341 | 1.65 | 1.23 | 67 | 0.15 | 2.24 |
| 1969-70 | • | 9.49 | 10.55 | 1.11 | 1,374 | 1.25 | 0.91 | 1,521 | 1.70 | 1.12 | 80 | 0.19 | 2.41 |
| 1970-71 | • | 6.48 | 7.89 | 1.22 | 1,553 | 1.61 | 1.04 | 2,000 | 2.35 | 1.18 | 86 | 0.21 | 2.47 |
| 1971-72 | | 7.14 | 8.61 | 1.21 | 1,241 | 1.28 | 1.03 | 2,535 | 3.07 | 1.21 | 78 | 0.21 | 2.74 |
| 1972-73 | · | 7.60 | 6.59 | 0.87 | 7995 | 0.74 | 0.74 | 2,140 | 1.73 | 0.81 | 59 | 0.14 | 2.34 |
| 1973-74 | • | 8.95 | 11.99 | 1.34 | 1,182 | 1.11 | 0.94 | 1,894 | 2.40 | 1.27 | 46 | 0.11 | 2.32 |
| 1974-75 | | 8.31 | 11.36 | 1.37 | 897 | 0.87 | 0.98 | 1,826 | 2.51 | 1.38 | 51 | 0.13 | 2.59 |
| 1975-76p | | 8.56 | 11.82 | 1.38 | 987 | 1.14 | 1.16 | 2,328 | 3.18 | 1.40 | 51 | 0.13 | 2.81 |

AGRICULTURE—continued

| | | Hay | | | Potatoe | rs | | Sugar- | cane(a) | | Vineyari | ds | All crops |
|----------|---|----------|-----------------|------------------|----------|-----------------|------------------|----------|-----------------|------------------|----------------|--------------|--------------|
| Season | | Area | Pro- duction | Average yield | Area | Pro- duction | Average yield | Area | Pro- duction | Average yield | Area | Wine made | Area |
| | | 000' | '000 | | '000 | '000 | | ,000 | ,000 | | '000 | mil. | mil. |
| | | hectares | tonnes | tonnes | hectares | tonnes | tonnes | hectares | tonnes | tonnes | hectares | litres | hectares |
| 1901-02 | | 683 | 2,057 | 3.01 | 44 | 328 | 7.4 | 35 | 1,390 | 39.5 | 26 | 24 | 3.4 |
| 1911-12 | | 1,019 | 2,914 | 2.86 | 53 | 306 | 5.8 | 41 | 1,709 | 41.8 | 25 | 23 | 4.9 |
| 1921-22 | | 1,212 | 3,965 | 3.27 | 60 | 394 | 6.5 | 52 | 2,476 | 47.7 | 37 | 39 | 6.2 |
| 1931-32 | | 1.066 | 3,218 | 3.02 | 59 | 403 | 6.9 | 98 | 4,281 | 43.8 | 46 | 65 | 8.6 |
| 1941-42 | | 1,116 | 3,632 | 3.25 | 40 | 338 | 8.4 | 103 | 5,236 | 50.8 | 53 54 | 71 | (b)8.3 |
| 1947-48 | | 797 | 3.056 | 3.83 | 59 | 506 | 8.6 | 90 | 4,489 | 49.9 | 54 | 149 | (b)9.1 |
| 1948-49 | | 639 | 2,329 | 3.64 | 48 | 467 | 9.6 | 108 | 6,815 | 63.2 | 55 | 149 | (b)8.5 |
| 1949-50 | | 650 | 2,469 | 3.80 | 54 | 479 | 8.8 | 114 | 6,959 | 61.1 | 55 55 55 | 149 | (b)8.4 |
| 1950-51 | · | 557 | 2.096 | 3.76 | 51 | 418 | 8.1 | 110 | 7,165 | 65.1 | 55 | 118 | (b)8.1 |
| 1951-52 | | 627 | 2,382 | 3.80 | 48 | 517 | 10.8 | 114 | 5,412 | 47.5 | 55 | 160 | (6)8.1 |
| 1952-53 | • | 713 | 2.809 | 3.94 | 55 | 438 | 8.0 | 113 | 7,079 | 62.5 | 55 | 136 | (b)8.4 |
| 1953-54 | • | 783 | 3,098 | 3.96 | 52 | 557 | 10.7 | 138 | 9,159 | 66.5 | 55 56 | 144 | (b)8.7 |
| 1954-55 | • | 803 | 2,902 | 3.61 | 43 | 476 | 10.9 | 151 | 10,248 | 67.7 | 55 | 109 | 9.0 |
| 1955-56 | • | 907 | 3,683 | 4.06 | 38 | 408 | 10.8 | 151 | 9.044 | 59.9 | 33 | 104 | 9.3 |
| 1956-57 | • | 753 | 3.092 | 4.10 | 41 | 527 | 12.9 | • 150 | 9,421 | 62.9 | 55 53 | 140 | 8.1 |
| 1957-58 | • | 905 | 3,016 | 3.33 | 48 | 585 | 12.2 | 152 | 9,397 | 61.8 | 53 | 154 | 9.0 |
| 1958-59 | • | 1,221 | 5,171 | 4.23 | 42 | 584 | | | | 69.4 | 53 | 148 | 10.4 |
| 1959-60 | • | 852 | 3,227 | 3.79 | 44 | | 13.8 | 150 | 10,377 | | 23 | | |
| | • | | | 4.29 | 37 | 589 | 13.4 | 127 | 9,147 | 72.0 | 53 | 129 | 10.6 |
| 1960-61 | • | 1,203 | 5,160 | | | 458 | 12.3 | 138 | 9,313 | 67.5 | 53 | 154 | 12.0 |
| 1961-62 | • | 920 | 3,752 | 4.08 | 38 | 534 | 14.0 | 157 | 9,730 | 62.1 | 54 | 190 | 12.0 |
| 1962-63 | • | 1,101 | 4,793 | 4.35 | 46 | 677 | 14.7 | 163 | 12,940 | 79.6 | 54 | 136 | 13.0 |
| 1963-64 | | 1,053 | 4,338 | 4.12 | 41 | 571 | 13.8 | 169 | 12,313 | 72.9 | 55 | 172 | 13.0 |
| 1964-65 | | 1,130 | 5,043 | 4.46 | 36 | 516 | 14.5 | 190 | 15,312 | 80.4 | 56 | 177 | 14.0 |
| 1965-66 | | 1,125 | 4,246 | 3.77 | 39 | 649 | 16.7 | 204 | 14,382 | 70.6 | 57 | 156 | 14.0 |
| 1966-67 | ٠ | 1,415 | 6,473 | 4.58 | 40 | 653 | 16.3 | 226 | 16,953 | 75.1 | 56 | 190 | 16.0 |
| 196768 | | 502 | 1,246 | 2.48 | 43 | 669 | 15.6 | 224 | 17,025 | 76.1 | 57 | 202 | 16.3 |
| 1968-69 | | 428 | 1,728 | 4.04 | 46 | 811 | 17.7 | 230 | 18,708 | 81.3 | 58 | 239 | 16.6 |
| 1969-70 | | 428 | 1,514 | 3.54 | 43 | 762 | 17.6 | 213 | 15.784 | 74.2 | 61 | 294 | 15.6 |
| 197071 | | 349 | 1,274 | 3.65 | 39 | 774 | 20.1 | 221 | 17,645 | 80.0 | 64 | 255 | 13.4 |
| 1971-72 | | 341 | 1,247 | 3.66 | 40 | 822 | 20.3 | 234 | 19,391 | 83.0 | 67 | 290 | 14.3 |
| 1972-73 | | 453 | 1,224 | 2.70 | 37 | 721 | 19.7 | 242 | 18,928 | 78.3 | 69 | 280 | 14.3 |
| 1973-74 | | 325 | 1.034 | 3.22 | 34 | 649 | 19.0 | 226 | 19,278 | 85.4 | 7 0 | 295 | 15.2 |
| 1974-75 | · | 216 | 669 | 3.10 | 38 | 742 | 19.7 | 253 | 20,418 | 80.7 | 71 | n.a. | 13.9 |
| 1975-76p | • | 232 | 726 | 3.14 | 35 | nya | nya | 257 | 21,959 | 85.4 | 70 | n.a. | 14.7 |

PRIMARY INDUSTRIES—continued PASTORAL, DAIRYING, ETC.

| V | Livestock | (a) | | | | | | Meat(d) | | | |
|---------------------------|-----------|--------|-------|------|----------------|--------|---------|---------------|--------------------|------------|--------|
| Year ended 30 June— | Horses | Cattle | Sheep | Pigs | Wool (b)(c) | Butter | Cheese | Beef and veal | Mutton and lamb | Pigmeat | Total |
| | | • | | | | '000 | '000 | ,000 | ,000 | '000 | '000 |
| | mil. | mil. | mil. | mil. | mil. kg | tonnes | tonnes | tonnes | tonnes | tonnes | tonnes |
| 1902 . • | 1.6 | 8.5 | 72 | 0.9 | 245 | (e)46 | (e)5.3 | n.a. | n.a. | n.a. | n.a |
| 1912 | 2.3 | 11.8 | 97 | 1.1 | 362 | (e)96 | (e)7.2 | n.a. | n.a. | n.a. | n.a |
| 1922 | 2.4 | 14.4 | 86 | 1.0 | 328 | (e)121 | (e)14.8 | 345 | 222 | 51 | 618 |
| 1932 | 1.8 | 12.3 | 111 | 1.2 | 457 | ` 177 | 14.3 | 355 | 312 | 72 | 739 |
| 1942 | 1.6 | 13.6 | 125 | 1.4 | 529 | 170 | 30.6 | 542 | 378 | 124 | 1.043 |
| 1948 | 1.2 | 13.8 | 103 | 1.3 | 456 | 165 | 42.1 | 571 | 300 | 9i | 962 |
| 1949 | 1.1 | 14.1 | 109 | 1.2 | 480 | 168 | 43.9 | 587 | 326 | 9 5 | 1.007 |
| 1950 | 1.1 | 14.6 | 113 | 1.1 | 518 | 176 | 45.5 | 616 | 364 | 92 | 1.072 |
| 1951 | 1.0 | 15.2 | 116 | 1.1 | 507 | 167 | 45.0 | 662 | 279 | 87 | 1,027 |
| 1952 | 0.9 | 14.9 | 118 | 1.0 | 490 | 137 | 41.3 | 591 | 287 | 86 | 964 |
| 1953 | 0.9 | 15.2 | 123 | 1.0 | 581 | 170 | 47.4 | 686 | 401 | 84 | 1,171 |
| 1954 | 0.8 | 15.6 | 127 | 1.2 | 565 | 162 | 49.8 | 716 | 371 | 85 | 1,171 |
| 1955 | 0.8 | 15.8 | 131 | 1.3 | 582 | 194 | 45.9 | 731 | 394 | 101 | |
| 1956 . : | 0.8 | 16.5 | 139 | 1.2 | 643 | 212 | 39.3 | 763 | 386 | 95 | 1,227 |
| 1950 . 1957 | 0.7 | 17.3 | 150 | 1.3 | 710 | 196 | 45.9 | 828 | 373 | | 1,245 |
| 1957 1958 | 0.7 | 16.9 | 149 | 1.4 | 650 | 179 | 36.6 | 804 | 428 | .90 | 1,290 |
| | 0.7 | 16.3 | 153 | 1.3 | 722 | 197 | 44.5 | 921 | 500 | 103 | 1,336 |
| 1959 | 0.7 | 16.5 | 155 | 1.4 | 762 | 201 | 44.3 | | 500 | 104 | 1,52 |
| 1960 | 0.6 | | 153 | 1.6 | 737 | 185 | | 764 | 583 | 102 | 1,449 |
| 1961 | | 17.3 | | | 770 | | 47.9 | 643 | 584 | 109 | 1,336 |
| 1962 | 0.6 | 18.0 | 158 | 1.7 | | 202 | 56.6 | 804 | 596 | 122 | 1,522 |
| 1963 | 0.5 | 18.5 | 159 | 1.4 | 759 | 206 | 59.6 | 929 | 603 | 116 | 1,648 |
| 1964 | 0.5 | 19.1 | 165 | 1.5 | 810 | 207 | 59 2 | 1,001 | 595 | 113 | 1,710 |
| 1965 | 0.5 | 18.8 | 171 | 1.7 | 809 | 206 | 62.6 | 1,026 | 594 | 122 | 1,743 |
| 1966 | n.a. | 17.9 | 158 | 1.7 | 754 | 209 | 59.6 | 946 | 608 | 135 | 1,690 |
| 1967 | 0.5 | 18.3 | 164 | 1.8 | 799 | 222 | 69.8 | 879 | 596 | 142 | 1,617 |
| 1968 | n.a. | 19.2 | 167 | 2.1 | 803 | 196 | 70.5 | 904 | 665 | 150 | 1,718 |
| 1969 | n.a. | 20.6 | 175 | 2.3 | 885 | 198 | 74.8 | 935 | 680 | 162 | 1,777 |
| 1970 | 0.5 | 22.2 | 180 | 2.4 | 926 | 223 | 76.3 | 1,010 | 755 | 174 | 1.940 |
| 1971 | n.a. | 24.4 | 178 | 2.6 | 891 | 203 | 77.6 | 1,047 | 825 | 182 | 2.054 |
| 1972 | n.a. | 27.4 | 163 | 3.2 | 880 | 195 | 80.9 | 1,168 | 956 | 194 | 2,319 |
| 1973 | n.a. | 29.1 | 140 | 3.3 | 735 | 185 | 93.4 | 1,438 | 713 | 236 | 2,388 |
| 1974 | n.a. | 30.9 | 145 | 2.5 | 701 | 175 | 95.8 | 1,310 | 457 | 211 | 1,978 |
| 1975 | n.a. | 32.8 | 152 | 2.2 | 794 | (/)161 | (f)98.6 | 1,534 | 520 | 175 | 2,229 |
| 1976 | n.a. | 33.4 | 149 | 2.2 | 747 | 148 | 112.5 | 1,783 | 584 | 176 | 2,543 |

(a) At 31 December of previous year for years to 1942, at 31 March thereafter. (b) In terms of greasy. (c) 1901-02 and 1911-12, year ended previous December; then until 1946-47, year ended March; 1947-48 onwards, year ended June. (d) Carcass weight in terms of fresh meat. (e) Year ended previous December. (f) From 1974-75 excludes the production of certain small producers.

MINERALS **FORESTRY** Sawn Black output and of Aust. brown Year ended Iron Crude Year ended grown timber 31 December-Copper(a) Gold(a) Lead(a) Zinc(a) ore coal oil 30 June-'ለለለ 2000 2000 mil. 2000 ነበበብ mi! '000 grams 102,642 77,263 23,577 18,510 46,553 27,542 27,653 tonnes 29.9 46.1 11.2 13.9 22.7 12.8 14.0 tonnes 7.0 10.7 13.1 10.8 tonnes tonnes tonnes cu m cu m (c)1,067 n.a. 225.3 82.3 150.8 295.7 213.6 215.2 (b) 241.9 141.7 75.4 251.2 1902 1912 1922 1932 1942 1949 1901 . 1911 . 1921 . 1931 . n.a. (b) 0.7 . . (c)1,428 1,392 559 2.157 . . 1931 1941 (b) 2.5 19.1 ٠. 1948 193.8 194.7 2.1 21.8 21.8 . . 1950 1949 2,886 24.3 25.9 27.9 27.1 29.6 29.9 30.3 17.9 18.4 19.2 38.1 2,976 3,287 3,162 3,304 3,419 3,424 3,348 1950 . 1951 . 1952 . 1953 . 27,046 27,855 30,495 33,446 32,629 32,031 33,714 34,336 33,476 33,245 33,245 33,245 29,979 27,298 229.0 215.4 232.0 273.7 289.4 300.7 304.3 339.1 333.6 321.4 274.0 376.0 416.9 201.0 192.3 199.6 243.2 256.7 282.5 324.0 298.4 279.8 316.2 342.9 357.1 354.8 375.3 2.4 2.5 9.3 3.6 4.0 9.0 4.4 4.4 5.9 5.8 11.1 1951 1952 1953 1954 . . 1955 1956 1954 1955 42.6 48.1 55.4 60.2 76.9 96.5 111.2 108.7 114.8 105.7 91.8 . . 1956 . . 31.2 32.6 33.9 38.1 3,348 3,282 3,445 3,589 3,346 3,190 1958 1959 1957 1958 1960 1961 1959 . . 1960 38.1 40.9 42.3 44.0 47.2 52.9 56.0 59.0 1962 1963 1964 1965 1966 1967 1961 . . 1962 1963 3,341 3,509 380.9 367.9 370.8 198 417 539 3,615 3,558 1964 1965 111.3 28,521 25,049 1966 1,208 407.0 1968 1967 381.8 17.3 109.6 24,316 388.8 422.4 26.6 2,206 1969 (d)3,3251968 66.8 72.8 72.9 77.2 83.9 85.6 97.7 2,238 4,872 14,937 19,038 444.4 502.0 444.1 497.5 (d)3,386 3,438 3,367 3,408 1969(e) 1970 125.3 22,713 417.7 22,713 20,496 19,108 23,253 26,002 16,271 15,061 17,079 32.5 1970(e) 1971(e) 45.1 57.1 62.1 74.6 91.5 98.2 142.3 173.0 459.4 416.4 1971 1972 1972(e) 420.8 1973 385.0 370.4 416.5 390.9 507.0 441.3 508.2 467.6 20,669 23,096 23,096 23,891 198.7 246.7 1974p 1973(e) 1974(e) 3,339 2,799 1975p 235.6 1976(e) 217 6 92.7 98 6

⁽a) Metallic content of minerals produced. (b) Less than 0.05. (c) Year ended previous December. (d) Excludes estimated quantity of timber from logs peeled or sliced for veneers. (e) Year ended 30 June.

SECONDARY INDUSTRIES

FACTORIES(a)

| | | | | | Net valu | e of produ | ction(d) | - | | | | Value of | |
|--|---|--|--|--|---|--|---|---|---|---|--|--|---|
| Year ended 30 June— | | Number | Persons employed (b) | Salaries and wages paid(c) | Chemi- cals, etc. | Indus- trial metals, etc. | Textiles, | Clothing | Food, | Paper, | All groups | Plant and mach- inery(e) | Land and build- ings(e) |
| 1902(/). | | 000' (g) | '000 (g) | \$m (g) | \$m n.a. | \$m n.a. | \$m n.a. | \$m n.a. | \$m n.a. | \$m n.a. | \$m 58.2 | \$m n.a. | \$m n.a. |
| 1912(<i>f</i>) . 1922 . | : | 14.5 18.0 | 312 379 | 55 136 | 2.2 6.4 | 24.1 47.2 | | 5.0 | 23.6 54.4 | 8.5 18.0 | 108.3 225.0 | 63.2 156.2 | 65.0 134.6 |
| 1932 - 1942 - 1949 - 1950 - 1951 - 1952 - 1953 - 1955 - 1955 - 1955 - 1956 - 1957 - 1958 - 1960 - 1961 - 1962 - 1963 - 1966 - 1965 - 1966 - 1967 - 1968 | | 21.7 27.0 40.1 41.6 43.1 45.8 47.7 49.6 51.1 52.4 53.2 54.0 54.9 56.7 57.8 58.5 59.1 61.7 62.5 63.0 | 890 917 969 978 933 990 1,031 1,060 1,063 1,074 1,088 1,132 1,145 1,168 1,210 1,269 1,294 1,309 | 112 360 678 772 983 1,224 1,270 1,410 1,563 1,707 1,859 1,941 2,173 2,289 2,447 2,652 2,994 3,163 3,408 3,666 | 15.8 59.6 67.1 81.3 105.4 135.7 164.6 196.3 238.3 221.3 366.1 366.1 364.3 411.4 449.5 504.8 542.7 627.6 687.0 | 45.6 239.8 421.7 492.5 654.0 826.2 842.6 1,065.9 1,193.9 1,471.6 1,700.4 1,795.9 1,770.3 1,954.7 2,174.0 2,486.1 2,487.8 2,912.9 3,163.6 | 13.8 42.0 71.7 85.9 109.2 113.2 129.7 157.1 156.8 163.6 182.9 183.0 191.3 216.7 213.6 223.8 252.5 279.6 282.8 303.1 315.0 | 22.2 47.2 104.5 115.4 143.5 162.2 165.6 187.1 196.8 204.9 211.0 211.0 221.5 237.7 247.2 252.4 266.3 302.3 319.0 341.5 360.1 | 57. 4 106. 4 179. 6 202. 0 236. 6 282. 2 328. 7 355. 8 373. 1 395. 6 449. 9 449. 9 449. 1 520. 1 542. 5 636. 9 700. 5 757. 1 818. 3 892. 3 892. 3 893. 5 | 19.2 34.2 70.6 86.0 109.5 136.4 136.6 1181.1 198.1 241.4 2241.4 228.2 318.6 326.9 350.9 379.7 426.9 503.3 549.0 | 222.0 633.0 1,137.5 1,323.1 1,687.7 2,049.7 2,155.7 2,454.1 3,044.2 3,457.4 3,685.2 5,270.0 4,394.6 4,795.2 5,270.0 7,430.9 | 243.1 338.4 493.0 571.2 673.2 820.3 987.1 1,161.4 1,396.6 1,595.7 1,2025.5 2,216.8 2,443.2 2,785.6 3,480.7 3,766.3 4,154.7 4,706.8 4,962.2 | 213.2 312.7 465.5 519.1 605.6 719.0 828.9 966.9 1,112.0 1,307.1 11,895.8 2,129.2 2,389.1 2,299.6 3,006.8 3,204.7 3,505.9 3,776.6 4,061.2 4,303.2 |
| 1969(h) . 1970 . 1972 . 1973 . 1974 . 1975(i) . | | 35.9 35.7 36.1 36.4 37.1 27.0 | 1,297 1,303 1,298 1,338 | 3,908 4,329 5,257 5,820 7,177 8,531 | 633.0 681.8 804.1 885.5 1,076.2 1,172.2 | 3,201.6 3,551.9 4,052.0 4,337.7 5,529.4 6,635.8 | 301.0 310.3 333.7 376.8 481.1 409.2 | 409.2 452.1 521.5 563.9 676.1 696.8 | 1,184.4 1,321.9 1,683.9 1,943.5 2,126.0 2,650.5 | 620.7 701.8 818.1 915.4 1,110.5 1,279.4 | 7,475.5 8,261.7 9,703.2 10,746.0 13,149.2 15,246.4 | n.a. n.a. n.a. n,a. n.a. | n.a. n.a. n.a. n.a. n.a. |

⁽a) Excludes Northern Territory and Australian Capital Territory before 1 July 1964. (b) Average over whole year; includes working proprietors. (c) Excludes amounts drawn by working proprietors. (d) Value added in process of manufacture (i.e. value of outpu less value of materials and fuel used). (e) Depreciated or book value at end of year, including estimated value of rented premises and machinery. (f) Year ended previous December. (g) Owing to variation in classification, effective comparison is not possible. (h) Direct comparison with figures for previous years are not possible for details, see page 729). (i) All manufacturing establishments owned by multi-establishment enterprises and single establishment manufacturing enterprises with four or more persons employed.

PRIMARY INDUSTRIES GROSS VALUE OF PRODUCTION OF PRIMARY INDUSTRIES

| | | \$m 47.6 77.6 163.8 149.0 201.0 | \$m 54.4 105.4 150.2 | \$m 15.2 32.2 | \$m 4.0 | \$m 0.2 | \$m | \$m | \$m | \$m | \$m |
|-------------|-----|--|----------------------------------|--|---|--|---------|------|--------|------|---------|
| | | . 77.6 . 163.8 . 149.0 | 105.4 150.2 | 32.2 | | 0.7 | | | | | |
| · · · | | . 163.8 . 149.0 | 150.2 | | | | 121.4 | n.a. | (a)5.6 | (b) | 127.0 |
| · · | | . 149.0 | | | 8.0 | 0.2 | 223.4 | n.a. | 9.6 | 2.2 | 235.2 |
| · · | : : | | | 70.6 | 18.0 | 0.2 | 402.8 | n.a. | 18.2 | 2.8 | 423.8 |
| | | 201.0 | 123.1 | 66.1 | 17.1 | 0.2 | 355.5 | 3.2 | 15.4 | 3.3 | 377.4 |
| • | | | 198.7 | 91.1 | 24.8 | 0.9 | 516.4 | 10.8 | 23.3 | 4.2 | 554.7 |
| | | . 566.1 | 432.9 | 151.7 | 53.4 | 1.6 | 1,205.7 | 15.7 | 40.0 | 8.0 | 1,269.4 |
| | | . 445.6 | 535.8 | 170.4 | 62.0 | 3.4 | 1,217.2 | 17.1 | 46.0 | 9.6 | 1,289.9 |
| | | | 744.3 | 202.2 | 67.0 | 1.7 | 1,578.6 | 12.8 | 50.7 | 9.8 | 1,651.9 |
| | | 557.0 | 1,510.5 | 221.0 | 74.9 | 1.9 | 2,365.3 | 14.4 | 62.2 | 11.3 | 2,453.2 |
| | | . 664.3 | 899.6 | 260.6 | 97.0 | 1.7 | 1.923.3 | 14.8 | 82.7 | 13.3 | 2,034.1 |
| | | . 765.9 | 1.115.0 | 337.7 | 109.7 | 2.4 | | 12.6 | 86.6 | | 2,445.8 |
| | | . 743.9 | | 347.1 | 109.9 | | 2.319.4 | | 94.7 | | 2,443.3 |
| | | 679.3 | | 363.9 | 103.0 | | 2,208.0 | | 99.1 | | 2,337.8 |
| | | | | | | | | | | | 2,456.2 |
| | | | | | | | | | | | 2,704.0 |
| | | | | | | | | | | | 2,407.5 |
| | | | | | | | | | | | 2,665.1 |
| | | | | | | | | | | | 2,796.8 |
| | • | | | | | | | | | | 2,897.1 |
| • | • | | | | | | | | | | 2,879.0 |
| • | • | | | | | | | | | | 3,138.7 |
| • | • | | | | | | | | | | 3,557.3 |
| • | • | | | | | | | | | | 3,595.6 |
| • | • | | | | | | | | | | 3,497.7 |
| • | • | | | | | | | | | | 4,004.7 |
| • | • | | | | | | | | | | 3,531.5 |
| • | • | | | | | | | | | | 4,141.6 |
| | | • • • | 563.5 557.0 664.3 765.9 | . 563.5 744.3 . 557.0 1,510.5 . 664.3 899.6 . 765.9 1,115.0 . 743.9 1,115.0 . 679.3 1,058.7 . 769.9 1,036.2 . 704.3 1,356.1 . 681.7 1,089.8 . 919.9 1,076.1 . 820.7 1,275.2 . 1,071.4 1,130.6 . 1,008.3 1,187.3 . 1,136.6 1,271.1 . 1,228.4 1,562.7 . 1,320.0 1,454.5 . 1,181.3 1,467.8 . 1,639.3 1,486.1 . 1,639.3 1,486.1 . 1,128.8 1,395.2 | . 563.5 744.3 202.2 . 557.0 1,510.5 221.0 . 664.3 899.6 260.6 . 765.9 1,115.0 337.7 . 743.9 1,115.0 347.1 . 679.3 1,058.7 363.9 . 769.9 1,036.2 395.7 . 704.3 1,356.1 376.8 . 681.7 1,089.8 370.7 . 919.9 1,076.1 400.7 . 820.7 1,275.2 425.4 . 1,071.4 1,130.6 409.5 . 1,008.3 1,187.3 412.5 . 1,136.6 1,287.1 439.4 . 1,228.4 1,562.7 463.5 . 1,320.0 1,454.5 505.3 . 1,181.3 1,467.8 508.0 . 1,639.3 1,486.1 523.8 . 1,268.8 1,395.2 504.1 | . 563.5 744.3 202.2 67.0 557.0 1,510.5 221.0 74.9 664.3 899.6 260.6 97.0 765.9 1,115.0 337.7 109.7 743.9 1,115.3 347.1 109.9 679.3 1,058.7 363.9 103.0 769.9 1,036.2 395.7 107.6 704.3 1,356.1 376.8 110.0 681.7 1,089.8 370.7 110.9 919.9 1,076.1 400.7 109.6 820.7 1,275.2 425.4 119.7 1.0 1,008.3 1,187.3 412.5 121.7 1.0 1,008.3 1,187.3 412.5 121.7 1.136.6 1,281.4 1,281 | | | | | |

PRIMARY INDUSTRIES-continued

The classification categories 'Pastoral', 'Dairying', 'Poultry' and 'Bee-farming' employed in the previous table have been replaced by a more appropriate commodity classification. Direct comparison with figures for previous years is not possible.

GROSS VALUE OF PRODUCTION OF PRIMARY INDUSTRIES

| Year end 30 June- | | Crops | Livestock slaughterings and other disposals(a) | Livestock products | Total Agriculture | Forestry | Fishing | Hunting |
|----------------------|---|---------|---|-----------------------|----------------------|----------|---------|---------|
| | | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| 1970 . | | 1,453.8 | 1,007.7 | 1,268.6 | 3,730.1 | 125.0 | 63.3 | 12.5 |
| 1971 . | | 1,477.4 | 1,009.9 | 1,079.0 | 3,566.4 | 137.2 | 77.2 | 10.2 |
| 1972 . | | 1,585.1 | 1,134.4 | 1,237.1 | 3,956.6 | 151.2 | 91.8 | 10.2 |
| 1973 . | | 1,569.7 | 1,542.2 | 1.834.0 | 4,945.9 | 170.6 | 100.3 | 12.1 |
| 1974 . | | 2,846.1 | 1,696.0 | 1,859.0 | 6.401.1 | 193.3 | 108.6 | 12.5 |
| 1975 . | ÷ | 3,193.4 | 1,019.2 | 1,655.1 | 5,867.7 | 212.6 | 106.6 | 13.8 |
| 1976p | | 3,202.3 | 1,164.8 | 1,605.0 | 5,972.1 | 207.9 | 140.2 | 17.6 |

⁽a) Includes adjustment for net exports (overseas and interstate) of live animals.

GROSS VALUE OF PRODUCTION

BUILDING

WAGES AND PRICES

| Year ended 30 June— | Mining and quarrying | Factories | Grand total | New dwellings completed(a) number | value | Value of work done on all buildings(b) | Year e 31 Dec | nded ember— | Weekly wage rates index adult males(c) | Retail price index numbers six State capital cities combined(d) |
|------------------------|--|---|--|--|--|---|--|----------------|---|---|
| 1902 | \$m 44.0 46.6 40.0 66.8 65.0 85.2 96.7 104.7 142.3 194.4 219.3 209.8 236.2 235.0 280.0 233.6 236.7 225.1 274.5 291.0 327.7 400.1 | \$m (e)\$8.2 (e)108.3 225.0 633.0 821.7 978.6 1,137.5 1,233.1 1,687.7 2,049.7 2,165.7 2,454.1 2,731.0 3,001.4 3,244.2 3,457.4 3,685.2 4,161.1 4,349.8 4,394.6 4,795.2 5,270.0 5,896.8 6,251.9 6,877.0 7,430.9 | \$m 229.2 390.1 688.8 1.115.0 1.539.2 2.116.3 2.287.7 2.813.8 3.965.4 3.911.4 4.374.5 4.644.2 4.832.5 5.226.1 5.713.5 5.547.4 5.952.7 6.580.2 6.815.0 6.823.5 7.472.6 8.372.1 9.041.4 9.295.7 10.390.7 | '000 n.a. n.a. n.a. n.a. 1.a. 1.a. 1.a. 1.a. | \$m n.a. n.a. n.a. 108.6 150.9 184.7 255.6 354.1 394.5 398.2 442.5 463.0 527.3 571.0 627.4 685.8 823.0 869.9 914.8 1,022.8 | \$m n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a | 1901 1911 1921 1931 1941 1948 1950 1951 1953 1956 1957 1958 1958 1959 1960 1961 1963 1963 1964 1965 1965 1967 1968 | | n.a. n.a. n.a. n.a. n.a. 18.55 49.8 55.4 59.7 71.5 85.8 96.7 99.2 101.6 105.2 110.8 112.4 114.3 122.0 125.7 129.5 129.8 133.0 140.4 144.3 152.4 152.3 | 88 100 (h)168 167 198 218 240 262 313 367 383 384 419 429 435 443 459 471 469 472 483 502 517 534 548 |
| 1969 | (f)749.2 (f)1,042.6 (f)1,289.5 (f)1,428.3 (f)1,597.3 (f)1,996.1 (f)2,641.1 | (f)7,473.5 (f)8,263.7 (g)n.a. (f)9,703.2 (f)10,749.8 (f)13,149.2 | | 130.7 142.2 142.1 143.8 150.6 150.0 | 1,182.1 1,379.4 1,478.9 1,628.7 1,845.5 2,143.0 2,454.2 | 2,195.4 2,556.7 2,815.6 3,132.4 3,542.4 4,214.9 4,713.3 | 1969 1970 1971 1972 1973 1974 1975 | : : | 183.6 191.9 218.0 239.8 275.1 373.8 417.6 | 564 586 621 658 720 829 954 |

⁽a) Series commenced 1945-46. Partly estimated before July 1951, and excludes Northern Territory before July 1954. (b) Building by private contractors, government authorities and owner builders. (c) At 31 December, Base; year 1954 = 100, weighted average. Excludes rural industry. (d) Base; year 1911 = 100. The index numbers are presented as a continuous series, but they give only a broad indication of long-term trends in retail price levels. They are derived by linking a number of indexes that differ greatly in scope. The successive indexes used are; from 1901 to 1914, the 'A' Series Retail Price Index; from 1914 to 1946-47, the 'C' Series Retail Price Index; from 1946-47 to 1948-49, a composite of Consumer Price Index Housing Group (partly estimated) and 'C' Series Index excluding Rent; and from 1948-49 onwards, the Consumer Price Index. (e) Year ended previous December. (f) Value added from 1968-69. (g) Manufacturing census was not conducted. (h) November.

OVERSEAS TRADE

TOTALS

PRINCIPAL EXPORTS(a)

| | | - | | | | Wool | | Wheat | | Flour(b) | |
|-----------|-------|-------|---|---------|---------|----------|--------|----------|---------|------------|--------|
| Year ende | ed 30 | June- | - | Imports | Exports | Quantity | Value | Quantity | Value | Quantity | Value |
| | | | | \$m | \$m | mil. kg | \$m | '000 | \$m | '000 | \$m |
| | | | | f.o.b. | f.o.b. | (f) | f.o.b. | tonnes | f.o.b. | tonnes | f.o.b. |
| 1902(g) | | | • | 76 | 100 | 175.8 | 30 | 552 | 5.6 | 88 | 1.2 |
| 1912(g) | | | | 122 | 158 | 330.3 | 52 | 887 | 12.8 | 160 | 2.8 |
| 1922 . | | | | 188 | 256 | 440.6 | 96 | 2,720 | 57.2 | 327 | 11.0 |
| 1932 . | | | | 104 | 216 | 427.1 | 74 | 3,468 | 38.4 | 554 | 7.6 |
| 1942 . | | | | 348 | 338 | 426.3 | 112 | 608 | 9.2 | 476 | 8.4 |
| 1948 . | | | | 679 | 820 | 513 9 | 289 | 1,638 | 105.6 | 711 | 63.6 |
| 1949 . | | | | 830 | 1,085 | 601.0 | 454 | 2,260 | 129.4 | 776 | 67.4 |
| 1950 . | | | | 1,076 | 1,227 | 647.5 | 618 | 2,135 | 124.3 | 700 | 52.7 |
| 1951 . | | | | 1,488 | 1.964 | 541.5 | 1,253 | 2,346 | 148.3 | 801 | 65.8 |
| 1952 . | | | | 2,107 | 1.350 | 472.3 | 636 | 1,712 | 110.6 | 716 | 66.0 |
| 1953 . | | - | | 1.028 | 1.743 | 547.8 | 788 | 1,620 | 103.9 | 789 | 74.8 |
| 1954 . | | | | 1,363 | 1.657 | 547.0 | 805 | 982 | 61.9 | 690 | 59.4 |
| 1955 . | | | - | 1.687 | 1.548 | 536.5 | 693 | 1,718 | 90.4 | 595 | 40.6 |
| 1956 . | | • | • | 1,642 | 1.564 | 587.8 | 653 | 1,934 | 92.9 | 605 | 39.4 |
| 1957 . | • | • | • | 1.438 | 1.986 | 658.1 | 930 | 2,479 | 120.1 | 680 | 43.3 |
| 1958 . | • | | • | 1.584 | 1.636 | 603.2 | 720 | 1.077 | 57.0 | 417 | 28.7 |
| 1959 . | • | • | • | 1,593 | 1,623 | 657.1 | 578 | 1.486 | 76.8 | 406 | 26.7 |
| 1960 . | • | • | • | 1,854 | 1.875 | 722.4 | 742 | 2,483 | 123.4 | 486 | 30.3 |
| 1961 . | • | • | • | 2,175 | 1.938 | 706.6 | 649 | 4.164 | 204.9 | 597 | 38.0 |
| 1962 . | • | • | • | 1.769 | 2.155 | 738.8 | 720 | 5.529 | 284.9 | 525 | 34.8 |
| 1963 . | • | • | • | 2,163 | 2,152 | 723.2 | 733 | 4.136 | 216.9 | 475 | 31.4 |
| 1964 . | • | • | • | | | 757.3 | 926 | 6.905 | 362.0 | 621 | 42.2 |
| 1965 . | • | • | • | 2,373 | 2,782 | | 781 | 5,714 | 297.2 | 519 | 37.3 |
| 1966 . | • | • | • | 2,905 | 2,651 | 728.2 | 757 | | 264.1 | 354 | 24.8 |
| 1967 . | • | • | • | 2,939 | 2,721 | 726.4 | | 5,156 | | 334 324 | 23.1 |
| | • | | • | 3,045 | 3,024 | 740.3 | 840 | 6,506 | 361.2 | | 23.1 |
| 1968 . | • | • | • | 3,264 | 3,045 | 763.4 | 739 | 6,498 | 342.7 | 346 | |
| 1969 . | | | • | 3,469 | 3,374 | 796.8 | 827 | 4,891 | 258.3 | 317 | 21.8 |
| 1970 . | | | • | 3,881 | 4,137 | 852.8 | 803 | 6,886 | 337.6 | 298 | 21.2 |
| 1971 . | • | | | 4,150 | 4,376 | 785.0 | 575 | 9,075 | 433.0 | 278 | 19.6 |
| 1972 . | | | | 4,008 | 4,893 | 851.5 | 582 | 8,459 | 418.5 | 164 | 12.6 |
| 1973 . | | | | 4,121 | 6,214 | 805.5 | 1,238 | 5,391 | 273.1 | 157 | 12.1 |
| 1974 . | | | | 6,085 | 6,914 | 583.0 | 1,248 | 5,128 | 517.1 | 129 | 20.2 |
| 1975 . | | | | 8,083 | 8,673 | 581.1 | 815 | 7,860 | 1,034.4 | 237 | 49.0 |
| 1976 . | | | | 8,240 | 9,601 | 726,7 | 962 | 7,559 | 921.5 | 219 | 38.5 |

| PRINCIPAL I | Exports(a |)—continued |
|-------------|-----------|-------------|
|-------------|-----------|-------------|

| | | *** | des and | | | | | Ores and concentre | |
|---------------|-----------|--------------|----------------|----------------|--------------|--------|--------------|---|-------|
| Year ended | Butter(c) | | aes ana ins | Meats(d) | Fruit(e) | Sugar | Gold | Iron | Other |
| 30 June | Quantity | Value | Value | Value | Value | Value | Value | Value | Value |
| | mil. kg | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| | | f.o.b. | f.o.b. | f.o.b. | f.o.b. | f.o.b. | f.o.b. | f.o.b. | f.o.b |
| 1902(e). | . 16 | 2.8 | 2.6 | 5.2 | 0.4 | | 28.6 | • • | _• |
| 1912(e) . | . 46 | 9.2 | 6.4 | 8.6 | 1.0 | | 24.0 | • • | 8.1 |
| 1922 . | . 58 | 16.0 | 6.2 | 11.0 | 6.0 | | 7.0 | • • | 1.3 |
| 1932 . | . 92 | 20.6 | 4.6 | 12.8 | 9.6 | 5.0 | 23.8 | | 0.3 |
| 1942 . | . 59 | 16.2 | 12.0 | 28.2 | 10.6 | 5.2 | 18.4 | | 1.9 |
| 1948 . | . 85 | 41.8 | 24.7 | 45.1 | 25.5 | 6.1 | 7.7 | | 9.2 |
| 1949 . | . 84 | 48.3 | 24.4 | 59.5 | 30.3 | 26.4 | | | 11.8 |
| 1950 . | . 83 | 50.8 | 30.3 | 70.0 | 30.2 | 28.3 | | | 12.3 |
| 1951 . | . 56 | 37.8 | 54.4 | 60.8 | 37.6 | 29.6 | | | 21.4 |
| 1952 . | . 13 | 10.2 | 34.3 | 71.0 | 44.4 | 13.8 | 14.0 | | 39.9 |
| 1953 . | . 51 | 40.9 | 40.3 | 131.6 | 61.2 | 43.3 | 40.8 | | 38.9 |
| 1954 . | . 41 | 33.1 | 38.9 | 113.8 | 67.9 | 63.2 | 27.5 | | 25.6 |
| 1955 . | . 64 | 50.0 | 39.4 | 127.0 | 68.0 | 62.3 | 27.4 | | 28. |
| 1956 . | . 84 | 58.7 | 41.8 | 119.1 | 67.4 | 49.4 | 16.6 | | 38.2 |
| 1957 . | . 79 | 52.9 | 48.5 | 100.1 | 52.9 | 57.6 | 28.5 | | 51.4 |
| 1958 . | . 53 | 32.3 | 50.8 | 110.5 | 72.0 | 70.0 | 12.7 | | 42.4 |
| 1959 . | . 80 | 50.9 | 47.1 | 194.4 | 73.1 | 64.3 | 6.6 | | 32.1 |
| 1960 . | . 79 | 58.4 | 63.6 | 177.0 | 64.3 | 53.3 | 20.4 | • | 43.: |
| 1961 . | . 64 | 40.9 | 54.4 | 144.6 | 61.1 | 70.1 | 79.9 | • | 54.4 |
| 1962 . | . 81 | 48.5 | 64.3 | 179.4 | 73.5 | 67.8 | 18.0 | | 47. |
| 1963 . | . 81 | 49.3 | 73.7 | 225.7 | 73.3 | 91.0 | 12.9 | | 43. |
| 1964 . | . 92 | 57.0 | 91.7 | 243.7 | 92.3 | 156.5 | 14.3 | | 54.4 |
| 1965 . | . 97 | 67.4 | 80.1 | 286.2 | 86.1 | 112.7 | 18.4 | 0.8 | 76. |
| 1966 . | . 84 | 57.7 | 89.2 | 227.7 | 107.3 | 93.9 | 24.4 | 2.7 | 87. |
| 1967 . | . 104 | 64.8 | 86.3 | 285.5 | 94.5 | 100.0 | 18.1 | 46.0 | 100. |
| 1968 . | . 78 | 47.0 | 62.3 | 284.6 | 104.9 | 97.6 | 15.4 | 103.0 | 122. |
| 1969 . | . 75 | 40.5 | 75.4 | 291.1 | 92.4 | 122.2 | 22.7 | 179.5 | 142. |
| 1970 | . 99 | 52.5 | 87.5 | 426.1 | 87.7 | 116.1 | 29.4 | 277.8 | 204 |
| 1970 . | . 89 | 32.3 48.0 | 71.3 | 426.1 | 87.7 99.8 | 149.6 | 29.4 18.1 | 374.3 | 230. |
| 1971 . | . 89 | | | 438.3 569.3 | 99.8 89.4 | 210.6 | 19.1 | 375.5 | 225. |
| 1973 | | 48.9 | 80.5 | | | | 24.8 | 439.1 | 237. |
| | . 75 | 62.0 | 188.7 | 866.5 | 116.7 | 249.8 | | 439.1 | |
| 1974 . | . 56 | 41.9 | 148.2 | 801.5 | 104.6 | 223.2 | 34.6 | | 307. |
| 1975 . | . 33 | 33.8 | 102.2 | 451.0 | 195.8 | 644.5 | 37.3 | 706.4 | 422.4 |
| 1976 . | : 72 | 63.7 | 141.7 | 667.6 | 103.8 | 569.9 | 37.2 | 770.9 | 534. |

⁽a) Australian produce. (b) Flour, plain white. (c) Includes concentrates and ghee. (d) Includes sausage casings, natural. (e) Includes juices and fruit preparations. (f) Greasy equivalent (includes greasy wool, slipe, wool scoured and carbonised, wool exported on skins). (g) Year ended previous December.

OVERSEAS TRADE—continued PRINCIPAL IMPORTS

| Year ende | ed 30 | June– | - | Vegetable foodstuffs, etc. | Apparel, etc. | Oil, etc. | Metals, etc. | Rubber | Paper, etc. |
|-----------|-------|-------|---|----------------------------------|------------------|------------|--------------|------------|-------------|
| | | | | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. |
| 1902(a) | | | | 7.2 | 21.8 | 2.4 | 15.6 | 1.0 | 3.2 |
| 1912(a) | | | | 7.4 | 32.4 | 3.2 | 28.0 | 2.8 | 5.2 |
| 1922 . | | | | 8.0 | 62.0 | 9.4 | 45.6 | 3.4 | 8.8 |
| 1932 . | | | | 5.2 | 30.8 | 11.0 | 14.8 | 1.6 | 8.8 |
| 1942 . | | | | 12.3 | 65.3 | 32.4 | 143.6 | 6.0 | 8.8 8.7 |
| 1947 . | | | | 18.9 | 97.8 | 41.3 | 105.2 | 10.9 | 26.8 |
| 1948 . | | | | 33.0 | 192.1 | 69.5 | 170.8 | 9.8 | 46.8 |
| 1949 . | | | | 27.9 | 218.4 | 86.4 | 256.1 | 12.6 | 42.1 |
| 1950 . | | | | 41.4 | 199.5 | 104.8 | 454.7 | 21.4 | 37.8 |
| 1951 . | | | | 49.6 | 277.3 | 139.7 | 479.7 | 59.3 | 58.0 |
| 1952 . | | | | 50.1 | 407.1 | 174.9 | 786.8 | 68.0 | 137.5 |
| 1953 . | | | | 37.0 | 96.5 | 148.5 | 452.0 | 17.4 | 44.9 |
| 1954 . | | | | 51.4 | 227.6 | 167.0 | 504.4 | 23.7 | 68.2 |
| 1955 . | | | | 71.9 | 253.5 | 193.8 | 638.3 | 34.1 | 92.8 |
| 1956 . | | | | 44.1 | 222.7 | 199.3 | 644.1 | 44.1 | 87.2 |
| 1957 . | | | | 51.6 | 182.7 | 191.1 | 530.1 | 33.4 | 83.5 |
| 1958 . | | | | - 51.5 | 217.0 | 203.4 | 564.4 | 33.3 | 89.8 |
| 1959 . | | | | 55.3 | 193.9 | 209.0 | 585.6 | 33.6 | 96.1 |
| 1960 . | | | | 54.9 | 222.1 | 213.5 | 710.1 | 48.5 | 103.8 |
| 1961 . | | | | 60.5 | 264.9 | 223.3 | 871.3 | 47.3 | 133.8 |
| 1962 . | | | | 56.3 | 208.4 | 219.8 | 630.3 | 35.5 | 109.6 |
| 1963 . | | | | 55.5 | 233.3 | 246.3 | 850.0 | 46.7 | 133.5 |
| 1964 . | | | | 61.6 | 234.0 | 251.5 | 947.1 | 51.2 | 141.7 |
| 1965 . | | | | 66.2 | 272.1 | 260.1 | 1,275.2 | 66.3 | 156.5 |

| Year ended 30 June— | Food and live animals | Beverages and tobacco | Crude materials, inedible, except fuels | Mineral fuels, lubricants and related materials | Animal and vegetable oils and fats | Chemicals | Manu- factured goods classified chiefly by materials | Machinery and transport equipment | Miscel- laneous manu- factured articles | Com- modities and trans- actions of merchan- dise trade not elsewhere classified |
|------------------------|-----------------------------|-----------------------------|---|---|--|------------|---|--|---|--|
| | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. | \$m f.o.b. |
| 1966 | 110 | 37 | 197 | 252 | 15 | 266 | 590 | 1,121 | 220 | 90 |
| 1967 | 118 | 38 | 206 | 247 | 15 | 297 | 586 | 1,144 | 243 | 110 |
| 1968 | 117 | 36 | 224 | 241 | 14 | 309 | 644 | 1,250 | 270 | 111 |
| 1969 | 128 | 44 | 228 | 252 | 13 | 328 | 688 | 1,328 | 298 | 116 |
| 1970 | 140 | 48 | 247 | 255 | 16 | 363 | 753 | 1,528 | 350 | 124 |
| 1971 | 158 | 50 | 235 | 190 | 18 | 410 | 867 | 1,644 | 403 | 125 |
| 1972 | 160 | 51 | 219 | 194 | 15 | 410 | 856 | 1,483 | 432 | 137 |
| 1973 | 163 | 52 | 268 | 175 | 13 | 424 | 893 | 1,489 | 475 | 119 |
| 1974 | 237 | 65 | 415 | 377 | 28 | 580 | 1,404 | 2,091 | 721 | 108 |
| 1975 | 302 | 95 | 390 | 724 | 43 | 786 | 1,496 | 3,059 | 961 | 125 |
| 1976 | 275 | 90 | 387 | 807 | 42 | 709 | 1,460 | 3,177 | 1,050 | 160 |

(a) Year ended previous December.

TRANSPORT AND COMMUNICATION

SHIPPING

| Year ended | tered | Cleare | đ | | | | | | te vovages | | |
|---|---|---|--|---|---|--|--|---|---|---|---|
| ended | | | | Oversea | as cargo | | | Entered | | Interstat | ie. |
| | No. tonnage | No. | Net tonnage | Dischar | | Loaded | | No. | Net tonnage | cargo loaded | |
| 1912(b) . 2,1 1942 . 1, 1942 . 1, 1948 . 1, 1948 . 1, 1950 . 1, 1951 . 1, 1952 . 2, 1953 . 1, 1953 . 1, 1955 . 2, 1955 . 2, 1956 . 2, 1957 . 2, 1958 . 2, 1959 . 2, 1960 . 2, 1961 . 3, 1962 . 3, 1964 . 3, 1965 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1966 . 3, 1968 . 3, 1969 . 4, 1970 . 4, 1971 . 5, 1971 . 5, | mil. tons. (a) (a) (a) (a) (567 4.6 6.1 7.5 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 6.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 | (a) 2,093 1,544 1,538 1,268 1,780 1,780 1,965 2,053 2,073 2,073 2,260 2,457 2,669 3,396 3,311 3,788 4,017 4,013 4,360 5,053 5,578 5,578 5,909 | mil. tons (a) 5.00 4.55.7 5.68 7.5 8.7 9.3 8.9 8.9 10.1 11.1 11.1 11.1 11.1 11.1 11.1 11 | mil. tonness n.a. (c)2. 4 3.8 5.1 5.9 7.9 9.2 9.9 9.2 12.6 6.12.8 13.9 14.5 7.17.5 17.5 28.8 22.1 6.2 24.5 27.5 28.0 29.8 7.2 18.5 20.2 23.1 8.5 20.2 20.2 23.1 8.5 20.2 20.2 20.2 20.2 20.2 20.2 20.2 20 | mil. cubic metres n.a. n.a. 1.0 2.0 2.2 2.9 4.1 4.5 5.3 2.2 3.9 3.9 3.1 3.3 3.0 3.7 4.3 3.1 3.8 4.5 5.0 4.7 5.3 5.9 6.1 7.6 6.1 7.6 | mil. tonnes n.a. n.a. (c) 5.8 6.0 2.9 4.6 5.5 5.1 5.5 4.6 6.1 5.9 6.2 6.8 8.9 7.5 8.8 10.3 14.0 17.5 15.7 20.1 120.8 22.1 20.1 33.2 42.0 55.8 78.1 101.8 0.1 132.4 150.5 | mil. cubic metres n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a | 1, a. 1, 5,000 4,895 4,860 3,091 3,294 3,301 3,750 4,759 4,626 4,805 5,127 5,012 5,0 | mil. tons n.a. 6.8 6.42 4.7 5.3 5.8 7.92 9.6 9.5 9.8 9.5 9.8 9.7 10.12 15.13 15.7 23.7 0.28.8 4.4 | mil. tonnes n.a. n.a. (c) 5.5 5 8.2 7.2 6.3 6.5 6.8 7.8 8.6 9.3 11 12.8 12.5 13.1 13.9 14.6 9 15.9 17.5 18.2 20.8 24.9 26.4 28.0 29.5 | mil. cubic metres n.a. n.a. 1.1 2.22 1.33 1.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 |

⁽a) Separate details not available. Total entrances and clearances for year ended December 1901, 4,028 vessels, 6.5 million tons (b) Year ended previous December. (c) Tons weight plus tons measurement.

GOVERNMENT RAILWAYS(a)

REGULAR INTERNAL AIR SERVICES

| | | | | | Englade | | Passenger | s | Freight | | Mail | |
|---------------------------|---------------------------------|--------------------------|----------------------------|-------------------------------|--|--------------------------|-------------------|-----------------------------------|-------------------------|---------------------------|-------------------------|---------------------------|
| Year ended 30 June— | Route kilo- metres (b) | Train kilo- metres | Pas- senger journeys | Freight- tonnes carried | Freight- net tonne- kilo- metres | Kilo- metres flown | Embark- ations | Pas- senger kilo- metres | Tonnes up- lifted | Tonne- kilo- metres | Tonnes up- lifted | Tonne- kilo- metres |
| | '000 | mil. | mil. | mil. | mil. | mil. | '000 | mil. | '000 | mil. | '000 | mil. |
| 1902 . | 20.6 | 61.5 | 115 | 15.7 | n.a. | | | | | | | |
| 1912 . | 27.0 | 88.8 | 228 | 25.9 | n.a. | | | | | | | |
| 1922 . | 37.7 | 90.3 | 335 | 32.0 | n.a. | | | | | | | |
| 1932 | 43.5 | 102.7 | 303 | 26.5 | п.а. | 1.4 | 6 | 5 | 0.04 | n.a. | 0.02 | n.a. |
| 1942 . | 43.8 | 142.4 | 475 | 39.5 | n.a. | 12.6 | 151 | 122 | 1.2 | 1.5 | n.a. | 0.7 |
| 1947 . | 43.8 | 137.6 | 503 | 38.4 | 9,165 | 51.5 | 850 | 589 | 12.4 | 9.8 | 1.2 | 1.0 |
| 1948 . | 43.6 | 141.1 | 511 | 40.6 | 9,703 | 52.1 | 1,208 | 810 | 26.2 | 19.6 | 1.3 | 1.2 |
| 1949 | 43.5 | 148.5 | 507 | 42.1 | 10,158 | 56.6 | 1,409 | 911 | 33.9 | 25.0 | 1.6 | 1.3 |
| 1950 | 43.5 | 150.3 | 505 | 41.3 | 10,143 | 58.7 | 1,500 | 950 | 44.8 | 32.6 | 2.6 | 2.0 |
| 1951 | 43.5 | 142.7 | 476 | 41.6 | 10,264 | 65.5 | 1,685 | 1,077 | 53.9 | 39.6 | 2.9 | 2.2 |
| 1952 | 43.1 | 150.3 | 501 | 45.0 | 11,046 | 67.3 | 1,829 | 1,162 | 52.2 | 39.0 | 2.4 | 1.9 |
| 1953 | 43.1 | 142.7 | 498 | 44.7 | 10,750 | 62.9 | 1,706 | 1,073 | 52.3 | 39.7 | 2.1 | 1.8 |
| 1954 | 42.8 | 150.5 | 511 | 47.6 | 11,370 | 66.0 | 1,772 | 1,130 | 63.0 | 47.7 | 2.1 | 1.8 |
| 1955 | 42.8 | 152.6 | 517 | 48.5 | 11,929 | 70.0 | 1,7/2 | 1,233 | 71.4 | 54.0 | 2.1 | 1.9 |
| 1956 | 42.6 | 154.8 | 515 | 47.6 | 11,894 | 70.3 | 1,918 2,020 | 1,333 | 76.6 | 56.8 | 2.3 | 2.0 |
| 1957 : | 42.6 | 153.0 | 499 | 48.3 | 12,203 | 67.8 | 2,125 | 1,434 | 68.1 | 53.0 | 2.3 | 2.0 |
| 1958 : | 42.5 | 145.3 | 494 | 46.0 | 11,132 | 65.2 | 2,123 | 1,447 | 63.5 | 48.2 | 2.4 | 2.0 |
| 1959 | 42.3 | 146.9 | 485 | 48.8 | 11,970 | 64.9 | 2,123 | | 57.0 | 42.0 | 2.4 | 2.2 |
| 1960 | 42.3 | 140.2 | 479 | 52.0 | 13.091 | 69.5 | | 1,519 | 59.3 | 42.6 | 4.4 | 3.8 |
| 1961 . | 42.2 | 149.7 | | 56.3 | 13,091 | | 2,660 | 1,823 | | | 5.4 | 4.5 |
| 1962 | 41.2 | 149.7 | 463 | 20.3 | 14,370 | 68.1 | 2,639 | 1,786 | 57.2 | 41.2 | | 4.7 |
| 1962 . | | | 461 | 56.5 | 14,427 | 66.3 | 2,666 | 1,802 | 51.9 | 38.1 | 5.7 | 4.9 |
| 1964 . | 41.0 | 149.6 | 465 | 56.8 | 15,131 | 70.3 | 2,833 | 1,965 | 53.9 | 41.3 | 5.9 | 4.9 |
| | 40.5 | 155.3 | 471 | 62.7 | 17,170 | 78.8 | 3,257 | 2,266 | 57.3 | 44.5 | 6.4 | 5.5 |
| 1965 . | 40.3 | 155.5 | 464 | 65.9 | 18,224 | 84.2 | 3,764 | 2,638 | 63.5 | 49.5 | 7.0 | 5.9 |
| 1966 . | 40.2 | 151.7 | 460 | 65.5 | 18,050 | 88.5 | 4,158 | 2,947 | 69.0 | 54.9 | 7.8 | 6.7 |
| 1967 . | 40.3 | 150.8 | 455 | 69.6 | 18,832 | 91.3 | 4,425 | 3,174 | 74.4 | 58.6 | 8.7 | 7.5 |
| 1968 | 40.5 | 152.1 | 453 | 72.2 | 20,054 | 91.3 | 4,668 | 3,420 | 77.2 | 61.8 | 8.5 | 7.6 |
| 1969 . | 40.4 | 151.0 | 447 | 77.0 | 21,463 | 97.1 | 5,185 | 3,865 | 81.6 | 66.5 | 9.0 | 8.0 |
| 1970 . | 40.3 | 156.3 | 450 | 83.7 | 23,973 | 106.6 | | 4,511 | 90.8 | 74.5 | 9.6 | 8.7 |
| 1971 . | 40.3 | 156.3 | 453 | 87.3 | 25,206 | 114.6 | | 4,974 | 91.4 | 78.0 | 9.9 | 9.3 |
| 1972 . | 40.3 | 153.7 | 404 | 88.7 | 25,403 | 115.9 | | 5,277 | 89.9 | 76.5 | 10.1 | 9.6 |
| 1973 . | 40.5 | 152.0 | 377 | 92.5 | 26,582 | 121.6 | 7,503 | 5,543 | 94.4 | 84.0 | 10.1 | 10.1 |
| 1974 . | 40.4 | 151.2 | 374 | 97.0 | 28,329 | 135.2 | 8,858 | 7,001 | 112.7 | 101.3 | 9.9 | 9.6 |
| 1975 . | 40.6 | 150.6 | 340 | 103.5 | 29,792 | 138.9 | 9,393 | 7,579 | 107.8 | 100.9 | 9.6 | 9.3 |

⁽a) Particulars of train-kilometres, passenger journeys, freight tonnes carried, and freight net tonne-kilometres refer only to operations for which revenue is received. (b) At end of period.

TRANSPORT AND COMMUNICATION—continued ROAD TRANSPORT

COMMUNICATION

| | Tram trolley- bus and | Motor veh | icles on the | register(b) | Total | | Telephon | es | | Broadcast television | licences |
|---------------------------|---|--|------------------------------------|-----------------|---|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------|------------------------------|----------------------------|
| Year ended 30 June— | bus services(a) Passenger journeys | Motor cars and station wagons | Com- mercial vehicles (c) | Motor cycles | motor vehicles (including motor cycles) | Postal matter dealt with(d) | Instru- ments in service (b) | Services in operation (b)(e) | Tele- grams (f) | Broad- cast listeners' | Tele- vision viewers |
| | mil. | 1000 | ,000 | ,000 | '000 | mil. articles | '000 | '000 | mil. | ,000 | '000 |
| 1902 . | . n.a. | | | | | (g)384 | (g)36 | (g)28 | (8)8.2 | | |
| 1912 . | 360 | n.a. | n.a. | n.a. | n.a. | (g)698 | (g) 118 | (g)96 | (g)13.9 | :: | |
| 1922 . | . 569 | | 102 | | 102 | 778 | 259 | 196 | 16.8 | (h)1 | |
| 1932 . | . 589 | 420 | 96 | 72 | 588 | 887 | 485 | 364 | 13.9 | 369 | |
| 1942 . | . (1)1,067 | 451 | 250 | 49 | 751 | 1,124 | 739 | 531 | 26.1 | 1,320 | |
| 1947 | 1.216 | 548 | 378 | 87 | 1,013 | 1,235 | 905 | 648 | 35.7 | 1,678 | |
| 1948 . | i.199 | 589 | 419 | 100 | 1,108 | 1,307 | 963 | 688 | 36.8 | 1,704 | |
| 1949 | 1.185 | 651 | 457 | 118 | 1,225 | 1,375 | 1,028 | 734 | 37.9 | 1,763 | |
| 1950 . | 1.076 | 764 | 506 | 134 | 1,404 | 1,466 | 1,110 | 795 | 38.0 | 1,841 | • • |
| 1951 . | 1,092 | 879 | 555 | 146 | 1,580 | 1,526 | 1,209 | 870 | 37.2 | 1,885 | • • |
| 1952 . | 1,019 | 1,028 | 588 | 155 | 1,770 | 1,482 | 1,301 | 939 | 29.8 | 1,961 | |
| 1953 . | . 988 | 1,105 | 587 | 148 | 1,840 | 1,506 | 1,383 | 1,001 | 25.9 | 1,986 | |
| 1954 . | . 981 | 1,196 | 611 | 141 | 1,947 | 1,604 | 1,476 | 1,070 | 25.1 | 2,042 | |
| 1955 . | . 966 | 1,342 | 654 | 133 | 2,130 | 1,653 | 1,587 | 1,153 | 25.5 | 2,035 | |
| 1956 . | . 927 | 1,430 | 693 | 123 | 2,246 | 1,741 | 1,704 | 1,240 | 25.4 | 2,089 | ±. |
| 1957 . | . 833 | 1,537 | 710 | 118 | 2,366 | 1,784 | 1,814 | 1,318 | 24.0 | 2,107 | 74 |
| 1958 . | . 803 | 1,661 | 731 | 114 110 | 2,506 2,649 | 1,895 1,951 | 1,937 2,056 | 1,407 1,491 | 22.9 22.5 | 2,138 2,264 | 29 578 |
| 1959 . | . 778 | 1,784 | 755 784 | 102 | 2,824 | 1,951 | 2,036 | 1,491 | 22.3 | 2,283 | 95 |
| 1960 . | . 758 . 726 | 1,938 2,070 | 800 | 93 | 2,963 | 2,048 | 2,164 | 1,631 | 21.8 | 2,256 | 1,21 |
| 1961 . 1962 . | 718 | 2,201 | 815 | 85 | 3,101 | 2,101 | 2,382 | 1,719 | 21.6 | 2,220 | 1.42 |
| 1963 . | 712 | 2,377 | 832 | žž | 3,286 | 2,202 | 2,523 | 1,812 | 21.8 | 2,240 | 1,65 |
| 1964 . | 702 | 2,583 | 846 | 69 | 3,498 | 2,342 | 2,670 | 1,919 | 23.4 | 2,302 | 1,88 |
| 1965 . | . 685 | 2,792 | 858 | 65 | 3,715 | 2,443 | 2,811 | 2.010 | 24.3 | 2,358 | 2.04 |
| 1966 . | . 653 | 2,947 | 868 | 64 | 3,878 | 2,556 | 2,978 | 2,120 | 25.0 | 2,526 | 2,22 |
| 1967 . | . 621 | 3,104 | 880 | 69 | 4,053 | 2,683 | 3,178 | 2,235 | 25.6 | 2,538 | 2,40 |
| 1968 . | . 609 | 3,305 | 892 | 83 | 4,279 | 2,648 | 3,392 | 2,359 | (j)23.4 | 2,580 | 2,519 |
| 1969 . | . 590 | 3,499 | 911 | 98 | 4,508 | 2,648 | 3,599 | 2,511 | (/)23.3 | 2,630 | 2,649 |
| 1970 . | 575 | 3,720 | 938 | 114 | 4,772 | 2,783 | 3,913 | 2,704 | (j)23.2 | 2,670 | 2,758 |
| 1971 . | . 561 | 3,935 | 961 | 144 | 5,039 | 2,806 | 4,152 | 2,857 | (j)21.2 | 2,699 | 2,84 |
| 1972 . | . 503 | 4,147 | 998 | 180 | 5,325 | 2,767 | 4,400 4,659 | 2,978 3,147 | (j)20.2 | 2,758 | 2,939 3,01 |
| 1973 . | . 516 | 4,376 | 1,048 | 210 | 5,634 | 2,828 | 4,639 5,000 | | (j)20.4 | 2,814 | (k)3,01. |
| 1974 . | . 528 | 4,627 | 1,100 | 259 | 5,986 | 2,818 | 3,000 | 3,361 | (j)20.7 | (k)2,851 | (K)3,022 |
| 1975 . | . 528 | 4,900 | 1,166 | 282 | 6,347 | 2,682 | 5,267 | 3,539 | (j)18.5 | | |
| | | | | | | | | | | | |

⁽a) Government and municipal trolley-bus services ceased in August 1969. (b) At end of period. (c) Open and closed light commercial type vehicles, rigid and articulated trucks, other truck type vehicles and buses. (d) Letters, postcards, letter-cards, newspapers, packets, parcels, and registered articles. (e) All single lines plus one half the number of duplex lines. Until the introduction of duplex services in December 1948, statistics of exchange lines and telephone services were identical. (f) Telegrams despatched to places within Australia and despatched to or received from overseas. (g) Year ended previous December. (h) Year 1923-24. First year licences issued. (i) Tram passenger journeys only before 1942. (j) Excludes telegrams received from overseas. These particulars are no longer available. (k) Television viewer and broadcast listener's licences were abolished on 17 September 1974.

NATIONAL ACCOUNTS

GROSS DOMESTIC PRODUCT

GROSS FIXED CAPITAL EXPENDITURE

| | | 44 | | | At consta | nt prices(a) | | 4 | A | At consta | nt prices(a) | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Year— | | At curren | (c) | (d) | 1953-54 prices(d) | 1959-60 prices(d) | 1966-67 prices(d) | At curren | t prices (d) | 1953-54 prices(d) | 1959-60 prices(d) | 1966-67 prices(d) |
| | | \$m |
| 1900-01 | | 419 | • • • | * | • • • | | • | 56 | • • • • | • | • | • |
| 1901-02 1902-03 | • | 444 428 | | | | • • | | 74 65 | | • • | •• | • • |
| 1902-03 | | 449 | • • • | | • • | | | 51 | | | • | |
| 1904-05 | | 445 | | | | | :: | 50 | | :: | | |
| 190506 190607 | • | 478 538 | • • • | • • | | •• | | 53 72 | • • | • • | • • | • • |
| 1907-08 | : | 536 | • • | | • • | | | 75 | • • • | | • | |
| 1908-09 | | 583 | | | | :: | :: | 76 | :: | :: | | |
| 1909-10 1910-11 | • | 624 683 | | • • | • • | | • • | 80 98 | • • | | • • | |
| 1911-12 | : | 733 | • | | • | | :: | 125 | • • • | | • | |
| 1912-13 | | 802 | | | :: | :: | :: | 146 | :: | :: | | ••• |
| 1913-14 1914-15 | | 865 833 | • • | | • • | | • • | 154 | | | • • | • • • |
| 1915-16 | : | 909 | | | | | • | 132 125 | | • • | • | |
| 1916-17 | | 943 | | • | :: | :: | :: | 123 | • | | | |
| 1917-18 | | 963 | • • | • • | | | •• | 112 | • • | • • | | • • |
| 1918-19 1919-20 | | 1,089 1,257 | | | •• | | • • | 146 209 | •• | •• | • • | • |
| 1920-21 | : | 1,426 | | | | • | •• | 245 | • • • | | • | • |
| 1921-22 | | 1,378 | | | | | | 261 | • • | | | |
| 1922-23 1923-24 | • | 1,510 1,569 | | | • • | • • | • • | 273 290 | • • | • • | | • • • |
| 1924-25 | : | 1,722 | :: | • • • | | | • | 303 | | | :: | • |
| 1925-26 | | 1,659 | | | | | | 308 | | | | |
| 1926-27 1927-28 | • | 1,729 1,739 | •• | • • | • • | • • | • • | 328 329 | •• | • • | • • | •• |
| 1928-29 | : | 1,711 | | | | | | 309 | | • | • | |
| 1929-30 | | 1,566 | | | | | •• | 240 | | • • | | |
| 1930-31 1931-32 | • | 1,288 1,209 | • • | • • | • • | • • | • • | 166 119 | • • | • • | •• | • • |
| 1932-33 | Ċ | 1.264 | | | | | • • | 134 | :: | | • | |
| 1933-34 | | 1,356 | | | | | | 156 | | | | |
| 1934-35 1935-36 | • | 1,422 1,574 | • • | • • | • • | • •• | •• | 203 226 | • • | •• | • • | • • |
| 1936-37 | : | 1,717 | | • | •• | •• | :: | 253 | :: | | • | :: |
| 1937-38 | | 1,857 | | | | | ••• | 253 306 | | | | |
| 1938-39 1939-40 | ٠ | 1,847 | 1,860 2,040 | • • | | • • | | 298 | (316) | • • | •• | • • |
| 1940-41 | : | • | 2,174 | | • • • | • | • | | | • | | |
| 1941-42 | | | 2.548 | | | ••• | ••• | | ••• | | | |
| 1942–43 1943–44 | • | • • | 2,936 2,986 | | • • | • • | • • | • • • | • • • | | • • | • • |
| 1944-45 | : | :: | 2,906 | | | • | • | | • | | • | |
| 1945-46 | | | 3,006 | | • • • | | | | • • • | | | |
| 1946-47 1947-48 | • | •• | 3,234 3,988 | | • • | • • | • • | | •• | • • • | | • • |
| 1948-49 | : | • • | 4,524 | 4,324 | 7.26i | :: | • • | • • | 792 | 1,350 | | |
| 1949-50 | | | | 5,099 | 7,844 | | | | 1,064 | 1,652 | | |
| 1950-51 1951-52 | • | • • | • • | 6,773 7,267 | 8,304 8,539 | • • | • • | • • | 1,524 1,938 | 2,049 2,194 | • • | • • |
| 1952-53 | : | | | 8,242 | 8,466 | • • • | | | 1.937 | 1,983 | | |
| 1953-54 | | | | 9,013 | 9.013 | 10,464 | | | 2,128 2,353 | 2.128 | 2,511 | |
| 1954-55 1955-56 | • | | | 9,603 10,405 | 9,493 10,023 | 11,082 11,642 | • • | • • | 2,353 | 2,294 2,380 | 2,698 2,811 | •• |
| 1956-57 | | | | 11.332 | 10.281 | 11,862 | • • | • • | 2,667 | 2,380 | 2,819 | |
| 1957–58 | | | | 11,588 12,448 | 10,435 11,370 | 12,124 | | | 2,856 | 2,499 | 2,951 | |
| 1958-59 1959-60 | • | • • | • • | 12,448 | 11,370 11,991 | 13,019 13,718 | 16,344 | • • | 3,022 3,405 | 2,614 2,886 | 3,085 3,405 | 3,947 |
| 1960-61 | : | | | 14,591 | 11,991 | 14,155 | 16,899 | • • • | 3,671 | 2,000 | 3,569 | 4,160 |
| 1961-62 | | | | 14,928 | •• | 14,300 | 17,103 | | 3,730 | •• | 3,579 | 4,180 4,476 |
| 1962–63 1963–64 | ٠ | • • | • • | 16,089 17,840 | • • | 15,191 | 18,213 19,501 | • • | 4,020 4,516 | •• | 3,842 4,242 | 4,476 4,938 |
| 1964-65 | : | • • | • • • | 19,598 | • • | 16,316 17,522 | 20,851 | • • | 5,269 | • | 4,806 | 5,583 |
| 1965–66 | | | | 20,544 | • | 17,697 | 21,216 | :: | 5,719 | :: | 5,074 | 5,907 |
| 1966–67 1967–68 | • | • • | • • | 22,571 24,063 | • • | 18,907 | 22.571 | • • | 6,009 | •• | 5,161 | 6,009 |
| 1968-69 | : | | • • | 27,074 | •• | • | 23,417 25,488 | • | 6,534 7,262 | • • | • • • | 6,355 6,817 |
| 1969-70 | • | :: | • • • | 29,941 | • | • | 26,963 | • | 7,913 | :: | • | 7,119 |
| 1970-71 1971-72 | • | • • | • • | 32,928 | | • • | 28,160 | • • | 8,778 | • • | • • | 7,438 |
| 1971-72 | : | | | 36,725 41,852 | | • | 29,417 30,681 | • • | 9,594 10,041 | • | | 7,611 7,488 |
| 1973-74 | | | :: | 50,692 | • | • | 32,455 | :: | 11,906 | :: | :: | 7,921 |
| 1974-75 1975-76 | • | • • | • • | 59,531 | | • • | 32,415 | • • | 14,337 | • • | •• | 7,768 7,779 |
| | | | | 69,673 | | | 32,899 | | 16,689 | • • | | 1,119 |

⁽a) For a description of constant price estimates, see Australian National Accounts, op. cit. pp 15 and 104. (b) N. G. Butlin, Australian Namestic Product, Investment and Foreign Borrowing 1861—1938-39, Cambridge University Press, Cambridge, 1962. Gross domestic product excluding livestock accumulation approximates conceptually gross domestic product as defined in the Australian National Accounts. (c) Published by the Commonwealth Statistician. Figures prior to 1948-49 are from National Income and Expenditure 1955-56 and are not strictly comparable with subsequent figures because of a number of definitional changes and statistical revisions; see pages 18-19, 117-20, Australian National Accounts 1948-49 to 1961-62, Commonwealth Bureau of Census and Statistics. (d) Australian National Accounts 1974-75, Australian Bureau of Statistics, and, for the last five years, the Budget Paper No. 9, National Income and Expenditure 1974-75. The figure of \$316m for gross fixed capital expenditure in 1938-39 is based on a reconstruction of earlier estimates, and is approximately consistent with the present Australian National Account series. (e) N. G. Butlin, op. cit. For a variety of reasons, Professor Butlin's gross domestic capital formation figures given here differ conceptually from those for gross fixed capital expenditure in the Australian National Accounts.

PRIVATE FINANCE

NOTE ISSUE

BANKING

| | | | | Australian | Trading bar | ıks | Bank | Savings banks | |
|----------|----------------|-----|---|-------------------|-----------------|-----------------|------------------|---------------------------|--|
| Year end | ended 30 June— | | - | note issue (a) | Advances (b) | Deposits (b) | clearings (c) | Depositors balances(d) | |
| | | | | \$m | \$m | \$m | \$m | \$m | |
| 1902 . | | | | | 188 | 186 | 13 | 62 | |
| 1912 . | | | | 16 | 238 | 300 | 25 | 118 | |
| 1922 . | | | | 107 | 364 | 578 | 65 | 308 | |
| 1932 . | | | | 103 | 522 | 638 | 55 | 396 | |
| 1942 . | | | | 205 | 648 | 965 | 142 | 549 | |
| | | | | | | | Debits to | | |
| | | | | | | | customers' | | |
| | | | | | | | accounts(c) | | |
| 1948 . | | | | 393 | 824 | 1,598 | 451 | 1,363 | |
| 949 . | | | | 426 | 966 | 1,830 | 514 | 1,428 | |
| 950 . | | | | 463 | 1,148 | 2,264 | 655 | 1,524 | |
| 951 . | | | | 551 | 1,357 | 2,826 | 897 | 1,675 | |
| 952 . | Ċ | - | | 605 | 1,656 | 2,564 | 866 | 1,784 | |
| 953 . | | - 1 | | 657 | 1,450 | 2,856 | 877 | 1.895 | |
| 954 | | | | 688 | 1,690 | 3.061 | 1,100 | 2,020 | |
| 955 . | | | | 726 | 1.982 | 3.089 | 1,127 | 2,145 | |
| 956 . | | | | 745 | 1.945 | 2,992 | 1,123 | 2,282 | |
| 957 . | Ť | | Ĭ | 763 | 1.897 | 3,231 | 1,250 | 2,455 | |
| 958 . | | | | 775 | 2,060 | 3,240 | 1,282 | 2,594 | |
| 959 | · | | Ĭ | 790 | 2.007 | 3,362 | 1,432 | 2,783 | |
| 960 . | · | | • | 843 | 2.211 | 3.611 | 1,737 | 3.045 | |
| 961 . | · · | | · | 839 | 2,238 | 3,600 | 1,654 | 3,155 | |
| 962 . | • | | • | 856 | 2,287 | 3,837 | 1,848 | 3,470 | |
| 963 . | | · | • | 869 | 2,465 | 4.064 | 2,028 | 3,940 | |
| 964 . | | | Ī | 870 | 2,610 | 4,649 | 2,318 | . 4,476 | |
| 965 . | • | | | 862 | 2,955 | 5.038 | 2,653 | 4,887 | |
| 966 . | · | • | Ī | 849 | 3,183 | 5,308 | 2,672 | 5.254 | |
| 967 . | · | | • | 938 | 3,548 | 5,614 | 2,978 | 5,765 | |
| 968 . | - | | • | 1.006 | 4,020 | 6.087 | 3,588 | 6,222 | |
| 969 . | • | • | • | 1,107 | 4,384 | 6,706 | 4,055 | 6,707 | |
| 970 . | • | • | • | 1,216 | 4,903 | 7.099 | 4,891 | 7,105 | |
| 971 . | • | • | • | 1,369 | 5,317 | 7.431 | 5.711 | 7.635 | |
| 972 . | • | • | • | 1,499 | 5,876 | 8,322 | 6,200 | 8,391 | |
| 973 . | • | • | • | 1,751 | 7,854 | 11,072 | 8.085 | 10,238 | |
| 974 . | • | • | • | 2,112 | 10,120 | 12,714 | 8.988 | 11,196 | |
| 975 . | • | • | • | 2,557 | 11,205 | 14,936 | 10.095 | 12,790 | |
| 976 . | • | • | ٠ | 2,921 | 12,560 | 16,956 | 13,368 | (c)14,823 | |

(a) Last Wednesday in June. (b) June quarter up to and including 1942; weekly average for month of June from 1947 onwards. (c) Weekly average, June month. (d) End of June. (e) Data from June 1975 have been revised to reflect a change in accounting procedures by one bank.

LIFE INSURANCE(a)(b)

| | | | | Ordinary(| r) | Industrial | | Total | |
|---------|---|---|---|-----------|----------------|------------|----------------|----------|----------------|
| | | | | Policies | Sum assured | Policies | Sum assured | Policies | Sum assured |
| | | | | '000 | \$m | '000 | \$m | '000 | \$m |
| 1901 . | | | | 414 | 216 | 236 | 10 | 650 | 226 |
| 1911 . | | | | 484 | 218 | 467 | 20 | 951 | 238 |
| 1921 . | | | | 730 | 362 | 973 | 60 | 1,703 | 422 |
| 1931 . | | | | 871 | 570 | 1,550 | 134 | 2,421 | 704 |
| 1941 . | | | | 1,340 | 926 | 2,780 | 254 | 4,120 | 1,180 |
| 1947 . | • | | | 1,902 | 1,481 | 3,541 | 386 | 5,442 | 1,867 |
| 1948 . | • | • | • | 2,071 | 1,669 | 3,643 | 418 | 5,714 | 2,087 |
| 1949 . | • | • | • | 2,224 | 1,862 | 3,725 | 448 | 5,949 | 2,310 |
| 1950 . | • | • | • | 2,377 | 2,094 | 3,793 | 477 | 6,170 | 2,571 |
| 1951 | • | • | | 2,554 | 2,424 | 3,843 | 307 | 6,396 | 2,931 |
| 1952 . | • | • | • | 2,731 | 2,757 | 3.873 | 541 | 6,604 | 3,298 |
| 1953 . | • | • | • | 2,893 | 3,105 | 3,881 | 571 | 6,774 | 3,677 |
| 1954 . | • | • | • | | 3,103 | 3,827 | 594 | | |
| 1955 . | • | | • | 3,033 | | 3,821 | | 6,860 | 4,076 |
| | • | • | • | 3,184 | 3,942 | 3,766 | 615 | 6,949 | 4,556 |
| 1956 . | • | • | • | 3,319 | 4,447 | 3,702 | 631 | 7,021 | 5,077 |
| 1957 . | • | • | • | 3,446 | 5,067 | 3,615 | 645 | 7,061 | 5,712 |
| 1958 . | • | • | | 3,577 | 5,747 | 3,531 | 657 | 7,108 | 6,404 |
| 1959 . | • | • | | 3,710 | 6,571 | 3,443 | 665 | 7,154 | 7,236 |
| 1960 . | | | | 4,110 | 7,690 | 3,340 | 686 | 7,450 | 8,376 |
| 1961 . | | | | 4,201 | 8,743 | 3,199 | 707 | 7,400 | 9,450 |
| 1962 . | | | | 4,291 | 9,854 | 3,076 | 743 | 7,366 | 10,597 |
| 1963 . | | | | 4,401 | 11,010 | 2,953 | 777 | 7,354 | 11,787 |
| 1964 . | | | | 4,539 | 12,481 | 2,851 | 823 | 7,390 | 13,304 |
| 1965 . | | | | 4,705 | 14,057 | 2,755 | 871 | 7,460 | 14,928 |
| 1966 . | | | | 4,873 | 15,750 | 2,644 | 918 | 7.517 | 16,668 |
| 1967 . | | | | 5,051 | 17,762 | 2,603 | 981 | 7,654 | 18,743 |
| 1968 . | - | | | 5,251 | 20,357 | 2.561 | 1.041 | 7,812 | 21,397 |
| 1969(d) | | | | 5,428 | 23,245 | 2,530 | 1,114 | 7.958 | 24,360 |
| 1970 . | • | • | • | 5,607 | 27,229 | 2,500 | 1,212 | 8,107 | 28,441 |
| 1971 . | • | : | : | 5.873 | 32,420 | 2,471 | 1,329 | 8.344 | 33,749 |
| 1972 . | • | • | : | 6,143 | 37,879 | 2,389 | 1,442 | 8,532 | 39,321 |
| 1973 . | • | • | • | 5,856 | 44,376 | 2,319 | 1,551 | 8.777 | 45,927 |
| 1974 . | • | • | • | 6,536 | 52,249 | 2,174 | 1,580 | 8.711 | 53,829 |
| 1975 . | • | • | • | 6,588 | 60,896 | 2,030 | 1,602 | | |
| 17.5 . | • | • | • | 0,300 | 00,070 | 2,030 | 1,002 | 8,618 | 62,498 |

⁽a) Existing business in Australia. (b) Relates to companies' financial years which ended during the calendar years shown. (c) Includes superannuation business. (d) Prior to 1969 includes business in Papua New Guinea.

PUBLIC FINANCE

COMMONWEALTH GOVERNMENT

STATE

GOVERNMENT SECURITIES ON ISSUE(a)

| Year | Consolida: revenue fu | | Net loan fund | Taxa- | Consolidate revenue fur | | Net loan expen- | Taxa- tion | Common- wealth | | | | In |
|---------------------------|--------------------------|------------------|-------------------------|--------------------------|----------------------------|------------------|-----------------------|------------------|-------------------|----------------|----------------|----------------|----------------|
| renr ended 30 June- | | Expen- diture | expen- diture (b) | tion collec- tions | Revenue | Expen- diture | diture (b) | collec- tions | Govern- ment | State | Total | Over- seas | Aus- tralia |
| | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| 1902 . | . 23 | 8 | • : | 18 | 56 | 58 | 19 | . 5 | :: | 429 | 429 | n.a. | n.a. |
| 1912 . | . 41 | 29 | . 2 | 32 | .83 | 82 | 33 | 11 | 12 | 557 | 569 | 388 | 181 |
| 1922 . | . 128 | 128 | 10 | 99 | 170 | 175 | 67 | 36 | 708 | 1,039 | 1,747 | 823 | 924 |
| 1932 . | . 143 | 143 | . 8 | 109 | 199 | 242 | 12 | 65 | 692 | 1,800 | 2,492 | 1,320 | 1,172 |
| 942 . | . 420 | 420 | 426 | 362 | 305 | 299 | 17 | 115 | 1,340 | 2,038 | 3,378 | 1,312 | 2,066 |
| 948 . | . 932 | 932 | 26 | 848 | 394 | 398 | 75 | 64 | 3,702 | 2,119 | 5,821 | 1,117 | 4,704 |
| 950 . | . 1,109 | 1,109 | 9 | 952 | 452 | 456 | 102 | 73 | 3,685 | 2,202 | 5,887 | 1,088 | 4,798 |
| 950 . | . 3,161 | 1,161 | 85 | 1,018 | 521 | 525 | 147 | .83 | 3,731 | 2,367 | 6,098 | 1,099 | 4,999 5,329 |
| 952 . | . 1,684 | 1,684 | 101 | 1,447 | 613 | 613 | 257 | 103 | 3,777 | 2,619 | 6,396 | 1,067 | 5,717 |
| 953 . | . 2,034 | 2,034 | 63 | 1,848 | 777 | 783 | 395 | 126 | 3,838 | 2,993 | 6,830 | 1,113 | 6,038 |
| 1954 . | . 2,080 | 2,080 2,046 | 71 | 1,783 | 876 941 | 877 935 | 322 | 142 161 | 3,893 | 3,288 3,573 | 7,181 7,537 | 1,142 1,165 | 6,372 |
| 955 . | 2,135 | 2,135 | 83 66 | 1,810 1,882 | 941 991 | 998 | 335 321 | 179 | 3,964 3,998 | 3,846 | 7,337 | 1,216 | 6,628 |
| 956 . | 2,133 | 2,133 | 88 | 2,014 | 1,052 | 1.082 | 312 | 196 | 4,031 | 4.121 | 8,151 | 1,269 | 6,882 |
| 957 . | 2,624 | 2.624 | 88 | 2,208 | | | | 229 | 3,957 | 4,121 | 8.353 | 1,216 | 7,138 |
| 958 . | . 2,648 | 2,648 | 90 | 2,208 | 1,154 1,210 | 1,168 1,224 | 317 314 | 256 | 3,670 | 4,686 | 8,356 | 1,248 | 7,100 |
| 959 | 2,592 | 2,592 | 132 | 2,338 | 1,210 | 1,224 | 314 | 276 | 3,512 | 4,088 | 8,499 | 1,319 | 7,186 |
| 960 . | 2.877 | 2,392 | 119 | 2,203 | 1,280 | | 356 357 | 320 | 3,312 | 5,301 | 8,635 | 1,389 | 7,242 |
| 961 . | 3,277 | 3,277 | 83 | 2,319 | 1,399 | 1,404 | 384 | 335 | 3,334 | 5,630 | 8,845 | 1,413 | 7,438 |
| 962 . | 3.283 | 3,283 | 182 | 2,858 | 1,609 | 1,513 1.617 | 395 | 353 | 3,119 | 5,963 | 9.082 | 1,424 | 7,655 |
| 963 . | 3,203 | 3,203 | 274 | 2,907 | 1,694 | 1.696 | 405 | 333 391 | 3,121 | 6,314 | 9,434 | 1,522 | 7,917 |
| 964 . | 3,809 | 3,809 | 226 | 3,247 | 1.829 | 1,829 | 438 | 448 | 3,172 | 6,691 | 9,863 | 1,545 | 8,314 |
| 965 . | 4,418 | 4,418 | 167 | 3,247 | 1,947 | 1.965 | 477 | 493 | 3,134 | 7.091 | 10,225 | 1,529 | 8,697 |
| 966 . | 4,879 | 4,879 | (c)260 | 4,221 | 2,094 | 2,119 | 492 | 536 | 3,145 | 7,495 | 10,639 | 1,505 | 9,138 |
| 967 . | 5,228 | 5.228 | (c)450 | 4,492 | 2,286 | 2,239 | 316 | 594 | 3,275 | 7.934 | 11,209 | 1,532 | 9,675 |
| 968 . | 5,760 | 5,760 | (c)655 | 4,952 | 2,463 | 2,468 | \$40 | 667 | 3,600 | 8,317 | 11,917 | 1,558 | 10,358 |
| 969 . | 6,086 | 6,086 | (c)236 | 5,528 | 2,463 | 2,700 | 574 | 775 | 3,682 | 8,831 | 12,512 | 1,698 | 10,813 |
| 970 . | 6,979 | 6,979 | (c)446 | 6,380 | 3,010 | 3,028 | 615 | 870 | 3,885 | 9,320 | 13,205 | 1,580 | 11,625 |
| 971 . | 7,838 | 7.838 | (c)439 | 7,183 | 3,457 | 3,483 | 628 | 910 | 3,801 | 9,691 | 13,492 | 1,546 | 11,946 |
| 972 . | . 8,688 | 8,688 | (c)218 | 7,939 | 4,035 | 4,050 | 896 | 1,297 | 3,808 | 10,227 | 14,035 | 1,442 | 12,592 |
| 973 . | . 9,278 | 9,278 | (c)281 | 8,470 | 4,675 | 4,704 | 973 | 1,644 | 3,963 | 10,781 | 14,744 | 1,265 | 13,479 |
| 974 . | . 11,976 | 11,976 | (c)239 | 10,917 | 5,481 | 5.514 | 868 | 2,042 | 4,088 | 11,219 | 15,306 | 1,032 | 14,274 |
| 975 . | . 15,391 | | (c)1.785 | 14,212 | 7,109 | 7.187 | 1,097 | 2,554 | 5,956 | 11.814 | 17,770 | 1.182 | 16.587 |
| 976 . | . 19.713 | 19,713 | 2.277 | 16,939 | 8.724 | 8,706 | 1,370 | 3,124 | 9,010 | 11,328 | 20,338 | 1,325 | 19,013 |

(a) At 30 June. Expressed in Australian currency equivalents at ruling rates of exchange. (c) Includes expenditure financed under the United States Defence Credits Arrangements.

(b) Loan expenditure on works and services

SOCIAL PENSIONS, BENEFITS, ETC.

| | | | 4 1: | | | | | | | Unemployme benefits | ent |
|------------------------|---|---|-------------------|--------------------------------|-----------------|---------------------------|-------------------|-------------------|-----------------|---|-----------------|
| Year ended 30 June— | | | Age and invo | uia pensions 'ives' Allowan | ces Pensions) | | owances(a) | Widow's per | nsions | No. on | |
| | | | Pensioners (b) | No. of wives | Amount paid (d) | No. of children (b) | Allowance paid | Pensioners (b) | Amount paid (d) | benefit— weekly average | Amount paid (d) |
| | | | '000 | '000 | \$m | '000 | \$m | '000 | \$m | '000 | \$m |
| 1902 | | ٠ | :: | | . • • | | | | | | |
| 1912 | | | 90 | | 4.3 | | | ٠ | | • • | |
| 1922 | | • | 147 | | 10.8 | | | | | | • • |
| 1932 | | | 261 | | 22.3 | | | | | | |
| 1942 | • | | 341 | :: | 38.5 | 910 | 22.6 | :: | | • | · · · |
| 1948 | | | 381 | . 12 | 73.1 | 1,050 | 38.9 | 43 | 7.8 | 4 | 0.7 |
| 1949 | • | ٠ | 403 | 12 | 83.4 | 1,105 | 48.6 | 43 | 8.8 | .2 | \mathcal{O} |
| 1950 1951 | • | ٠ | 414 | 13 | 89.1 | 1,836 | (e)60.7 | 43 | 8.8 | 13 | 2.5 |
| 1951 | • | • | 417 | 12 | 99.0 | 2,389 | 87.2 | 42 | 9.7 | 1 | \mathcal{G} |
| 1952 | • | • | 426 | 11 | 119.6 | 2,518 | 93.2 | 41 | 11.2 | .2 | (f) |
| | • | • | 451 | 12 | 144.8 | 2,624 | (e)106.5 | 41 | 12.7 | 30 | 9.1 |
| 1954 | • | • | 478 | 12 | 162.6 | 2,717 | 101.5 | 41 | 13.2 | 14 | 5.0 |
| 1955 | • | ٠ | 510 | 13 | 176.0 | 2,789 | 105.1 | 42 | 13.7 | 4 | 1.4 |
| 1956 | • | • | 535 | 13 | 203.3 | 2,876 | (e)120.8 | 43 | 15.4 | .4 | 1.4 |
| 1957 | • | • | 554 | 13 | 218.4 | 2,978 | 114.1 | 45 | 17.7 | 12 | 4.2 |
| 1958 | • | • | 574 | 12 | 243.2 | 3,074 | 117.5 | 47 | 19.7 | 24 | 9.8 |
| 1959 | • | • | 598 | 12 | 259.1 | 3,172 | (e)135.1 | 50 | 21.6 | 28 | 11.9 |
| 1960 | • | • | 619 | 13 | 294.0 | 3,252 | 125.1 | 52 | 24.3 | 21 | 9.0 |
| 1961 | | | 651 | 14 | 315.9 | 3,340 | (e)148.6 | 55 | 26.9 | 22 | 8.9 |
| 1962 | • | ٠ | 691 | 14 | 360.5 | 3,420 | 132.8 | 57 | 30.2 | 53 | 25.3 |
| 1963 | | | 711 | 15 | 375.5 | 3,458 | 135.4 | 58 | 31.4 | 40 | 21.3 |
| 1964 | | | 725 | 16 | 399.9 | 3,631 | (e)168.8 | 62 | 41.6 | 26 | 13.5 |
| 965 | • | ٠ | 736 | 16 | 426.6 | 3,711 | 172.8 | 65 | 47.0 | 14 | 6.8 |
| 966 | | | 744 | 17 | 442.4 | 3,763 | 176.4 | 69 | 50.0 | 15 | 7.8 |
| 967 | | • | 764 | 19 | 481.8 | 3,835 | (e)199.3 | 73 | 56.4 | 21 | 11.2 |
| 968 | | | 797 | 19 | 514.0 | 3,891 | 187.9 | 75 | 61.1 | 21 | 11.2 |
| 969 | • | | 827 | 20 | 558.6 | 3,996 | 193.3 | 78 | 69.1 | 18 | 9.3 |
| 970 | • | | 913 | 23 | 642.0 | 4,079 | (e)220.1 | 87 | 81.8 | 13 | 8.9 |
| 971 | | | 942 | 23 | 702.3 | 4,156 | 198.5 | 90 | 90.5 | 15 | 10.8 |
| 972 | | ٠ | 972 | 24 | 818.5 | 4,235 | 216.6 | . 93 | 104.6 | 29 | 26.0 |
| 973 | | ٠ | 1,081 | 41 | 1,072.4 | 4,239 | (e)253.9 | 106 | 140.5 | 40 | 46.6 |
| 974 | | | 1,184 | 47 | 1,372.4 | 4,261 | 225.4 | 115 | 181.0 | 34 | 58.2 |
| 975 | | | 1,266 | 51 | 1,918.9 | 4,284 | 224.9 | 121 | 241.4 | 117 | 251.7 |
| 976 | • | | 1,342 | 59 | 2,536.4 | 4,293 | (e)265.5 | 129 | 325.3 | 192 | 513.9 |

⁽a) Previously child and student endowment. (b) At 30 June. (c) Wives' allowance commenced on 8 July 1943 and was replaced by wives' pension on 5 October 1972. (d) Includes expenditure on additional pension/benefit for children. (e) Five 12-weekly payments made during the year instead of the normal four. (f) Less than \$0.05 million.

SOCIAL—continued

PENSIONS, BENEFITS ETC.—continued

| | | | Hospital and nursing home benefits— | Medical benefits— | Phar- maceutical benefits— | Total Australian Government expenditure on pensions. | War pensio | ins | Service p | ensions | |
|------------------|---|---|---|----------------------|----------------------------------|--|------------|----------------|-----------|----------------|--|
| Year o 30 Jun | | ı | amount paid | amount paid | amount paid | benefits, etc.(a) | No.(b) | Amount paid | No.(b) | Amount paid | |
| | | | \$m | \$m | \$m | \$m | '000 | \$m | '000 | \$m | |
| 1902 | • | • | • • | • • | • • | 4.4 | • • | • • | | | |
| 1912 | • | • | •• | • • | • • • | 4.3 | 244 | : | | | |
| 1922 | • | • | • • | • • | •• | 12.1 23.0 | 225 274 | 14.1 | • • | • • | |
| 1932 | • | • | • • • | • • | • • | 61.8 | 220 | 14.9 15.0 | i i | | |
| 1942 1948 | • | • | 8.9 | • • | •• | 137.2 | 416 | 32.7 | 16 | 1.2 | |
| 1949 | • | • | 11.8 | • • • | • • | 161.6 | 440 | 37.9 | 16 | 2.5 2.7 | |
| 1950 | • | • | 12.6 | •• | 0. i | 185.6 | 471 | 42.1 | 16 | 2.7 | |
| 1951 | • | • | 13.1 | • • • | 5.9 | 230.0 | 503 | 53.1 | 17 | 3.0 | |
| 1952 | • | • | 13.4 | 2. i | 15.4 | 275.2 | 525 | 66.7 | iź | 3.6 | |
| 1953 | • | • | 14.4 | 3.5 | 14.4 | 331.0 | 544 | 72.6 | íģ | 4.5 | |
| 1954 | • | • | 16.7 | 7.2 | 18.5 | 353.1 | 564 | 78.1 | 21 | 5.4 | |
| 1955 | • | • | 18.6 | 13.5 | 21.5 | 378.6 | 584 | 87.8 | 22 | 6.0 | |
| 1956 | · | - | 19.1 | 14.6 | 23.8 | 429.7 | 600 | 91.3 | 35 | 8.3 | |
| 1957 | | - | 19.6 | 18.3 | 23.4 | 447.8 | 614 | 95.6 | 39 | 9.8 | |
| 1958 | · | | 21.6 | 20.6 | 30.1 | 495.0 | 629 | 106 6 | 42 | 11.3 | |
| 1959 | | | 29.6 | 23.2 | 41.9 | 556.5 | 643 | 109.0 | 44 | 12.4 | |
| 1960 | | | 37.2 | 26.8 | 48.7 | 598.7 | 655 | 117.5 | 46 | 13.5 | |
| 1961 | | | 41.3 | 28.4 | 55.8 | 661.2 | 662 | 132 6 | 50 | 15.6 | |
| 1962 | | | 44.4 | 30.6 | 70.4 | 730.4 | 671 | 135 1 | 58 | 19.4 | |
| 1963 | | | 47.3 | 32.6 | 76.9 | 758.6 | 671 | 140.7 | 62 | 21.7 | |
| 1964 | | | 56.2 | 34.4 | 78.8 | 832.7 | 669 | 154.5 | 65 | 24.2 | |
| 1965 | | | 58.8 | 44.6 | 82.2 | 890.4 | 660 | 153.5 | 65 | 25.5 | |
| 1966 | • | | 60.7 | 54.6 | 91.8 | 941.6 | 647 | 170.5 | 66 | 28.2 | |
| 1967 | | | 67.4 | 58.2 | 101.3 | 1,031.1 | 632 | 161.7 | 67 | 29.1 | |
| 1968 | • | • | 74.8 | 62.5 | 105.1 | 1,075.0 | 617 | 164.4 | 69 | 31.8 | |
| 1969 | • | • | 85.9 | 66.5 | 118.4 | 1,162.3 | 601 | 182.8 | 67 | 34.1 | |
| 1970 | • | • | 111.4 122.8 | 76.1 115.5 | 136.7 160.3 | 1,341.8 | 585 570 | 183.5 191.4 | 74 77 | 39.9 43.7 | |
| 1971 1972 | • | • | 162.8 | 160.4 | 173.3 | 1,477.2 1,752.3 | 553 | 211.1 | 78 | 43.7 | |
| | • | • | 162.0 198.9 | 191.1 | 177.6 | 2.197.4 | 533 546 | 225.0 | 78 96 | 72.3 | |
| 1973 1974 | • | • | 226.5 | 198.9 | 218.3 | 2,197.4 | 532 | 252.2 | 109 | 103.6 | |
| 975 | • | • | 292.8 | 243.6 | 262.3 | 3,691.0 | 514 | 314.1 | 122 | 155.2 | |
| 976 | • | • | 254.1 | 86.1 | 283.8 | 4.658.7 | 499 | 340.1 | 142 | 218.9 | |

(a) National Welfare Fund items only, including expenditure for all years on pensions, benefits, etc., which subsequently became payable from the National Welfare Fund. In addition to the items shown in the preceding columns, the tables include expenditure on—the rehabilitation service; milk for school children; tuberculosis campaign; sickness, special and funeral benefits and some miscellaneous welfare and health services. Excludes war and service pensions, telephone rental concessions for pensioners and some minor welfare and health services. (b) At 30 June.

EDUCATION

POLICE AND PRISONS

| | Schools | | | | | | | | |
|---------|--------------------|--------|------------|--------|-------------|----------|--------|---------|-----------|
| | Government | | Non-govern | ment | Universitie | s | | | Convicted |
| Year(a) | Schools | Pupils | Schools | Pupils | Number | Students | Police | Prisons | prisoners |
| | '000 | '000 | ,000 | '000 | | '000 | '000 | No. | '000 |
| 1902 . | . 7.2 | 637 | 2.4 | 144 | 4 | 1.9 | 5.9 | n.a. | 4.2 |
| 1912 . | 8.4 | 663 | 1.9 | 164 | 6 | 3.8 | 6.6 | 101 | 3.4 |
| 1922 . | . 9.6 | 837 | 1.7 | 202 | ě | 7.8 | 7.0 | 92 | 3.0 |
| 1932 . | . 10.2 | 934 | 1.8 | 221 | ě | 9.9 | 8.6 | 85 | 4 1 |
| 1942 . | . 9.0 | 868 | 1.8 | 250 | ő | 10.6 | 9.7 | 71 | 3.5 |
| 1949 . | 7.9 | 971 | 1.8 | 293 | 8 | 31.1 | 11.1 | źi | 3.8 |
| 1950 | 7.8 | 1,027 | 1.9 | 310 | 8 | 30.0 | 11.5 | 70 | 4.0 |
| 1951 | 7.6 | 1,078 | 1.9 | 326 | | 31.1 | 11.9 | 70 | 4.2 |
| 1952 . | | 1,145 | 1.9 | | 8 | 29.1 | 12.6 | 69 | 4.8 |
| | . 7.6 | | | 348 | 8 | | | 70 | |
| 1953 . | . 7.6 | 1,206 | 2.0 | 366 | 8 | 28.3 | 12.7 | | 4.8 |
| 1954 . | . 7.6 | 1,275 | 2.0 | 388 | 9 | 28.9 | 12.6 | 71 | 4.8 |
| 1955 . | . 7.6 | 1,337 | 2.1 | 410 | 9 | 30.3 | 12.9 | 72 | 5.1 |
| 1956 . | . 7.7 | 1,357 | 2.1 | 432 | 9 | 34.0 | 13.5 | 73 | 6.0 |
| 1957 . | . 7.7 | 1,427 | 2.0 | 453 | 9 | 36.6 | 14.1 | 73 | 6.4 |
| 1958 . | . 7.8 | 1,498 | 2.0 | 474 | 10 | 41.5 | 14.5 | 73 | 6.6 |
| 1959 . | . 7.8 | 1,560 | 2.1 | 492 | 10 | 47.2 | 14.9 | 74 | 6.6 |
| 1960 . | 7.9 | 1.613 | 2.1 | 511 | 10 | 53.4 | 15.3 | 77 | 6.8 |
| 1961 . | 7.9 | 1.662 | 2.1 | 527 | 10 | 57.7 | 15.9 | 75 | 7.2 |
| 1962 . | 7.9 | 1.711 | 2.2 | 540 | iŏ | 63.3 | 16.4 | 74 | 7.4 |
| 1963 . | . 7 ['] 9 | 1.754 | 2.2 | 553 | iŏ | 69.1 | 16.7 | 73 | 7.7 |
| 1964 . | 7.8 | 1,799 | 2.2 | 565 | iš | 76.2 | 17.2 | 74 | 7.7 |
| 1965 . | 7.8 | 1,855 | 2.2 | 580 | 13 | 83.3 | 17.6 | 74 | 7.7 |
| 1966 . | . 78 | 1,919 | 2.2 | 583 | 14 | 91.3 | 18.4 | 76 | 8.1 |
| 1967 . | . <i>1.1</i> | 1,991 | 2.2 | 595 | 14 | 95.4 | 19.0 | 75 | 8.7 |
| 1968 . | | 2,055 | 2.2 | 601 | | | 19.7 | 79 | 8.8 |
| | . 7.6 | | 2.2 | | 14 | 101.5 | 20.1 | 74 | 9.2 |
| 1969 . | . 7.5 | 2,114 | | 603 | 14 | 109.7 | | 77 | |
| 1970 . | . 7.5 | 2,160 | 2.2 | 608 | 17 | 116.8 | 20.3 | | 9.3 |
| 1971 . | . 7.4 | 2,197 | 2.2 | 611 | 17 | 123.8 | 21.0 | 79 | 9.5 |
| 1972 . | . 7.4 | 2.229 | 2.2 | 612 | 17 | 128.7 | 22.2 | 80 | 9.8 |
| 1973 . | . 7.3 | 2,241 | 2.2 | 613 | 17 | 133.1 | 23.1 | 85 | 9.1 |
| 1974 . | . 7.3 | 2,258 | 2.2 | 618 | 17 | 142.9 | 24.4 | 90 | 7.6 |
| 1975 . | . 7.3 | 2,298 | 2.1 | 621 | 18 | 148.3 | n.a. | n.a. | n.a. |
| 1976 . | . 7.3 | 2,335 | 2.1 | 625 | 18 | 154.0 | n.a. | n.a. | n.a. |

⁽a) Years ended at varying dates for education statistics. Years ended 30 June for Police and Prisons.



DIARY OF PRINCIPAL ECONOMIC EVENTS, 1974-75 AND 1975-76

(Note: The figures shown on pages 500-5 of Chapter 16, National Accounts are published in Australian National Accounts, National Income and Expenditure, 1974-75 (7.1). Since that chapter was prepared, revisions have been made to some estimates in the course of preparing Australian National Accounts, National Income and Expenditure, 1975-76. All references to national accounts estimates in this Diary are to the revised estimates.

Annual movements in price indexes discussed in this chapter refer to movements in simple averages of the monthly or quarterly indexes.)

The principal economic events in earlier years were shown in the following issues.

| Years | | | Yea | r Book N | lo. | Pages |
|---------------|------|---|-----|----------|-----|-----------|
| 1931 to 1938 | | | | 33 | | 968-77 |
| 1939 to 1944 | | | | 36 | | 1129-41 |
| 1945 to 1948 | | | • | 37 | | 1235-45 |
| 1949 to 1951 | | | | 39 | | 1331-40 |
| 1952 to 1955 | | | • | 42 | | 1149-60 |
| 1956 to 1958 | | | | 46 | | 1185-92 |
| 1958-59 to 19 | 61-6 | 2 | • | 48 | | 1188-1200 |
| 1962-63 | | | | 49 | | 1253-56 |
| 1963-64 | | | | 50 | • | 1283-88 |
| 1964-65 | | | | 51 | | 1269-74 |
| 1965-66 | | | | 52 | | 1185-88 |
| 1966-67 | | | | 53 | | 1279-82 |
| 1967-68 | | | | 54 | | 1253-57 |
| 1968-69 | | | | 55 | • | 1243-48 |
| 1969-70 | | | | 56 | | 1077-81 |
| 1970-71 | | | | 57 | • | 1053-59 |
| 1971-72 | | | | 58 | | 1049-54 |
| 1972-73 | | | | 59 | | 1067-74 |
| 1973-74 | | | | 60 | | 1141-47 |
| | | | | | | |

In 1974-75 the Australian economy was subjected to a number of events unknown in recent experience. Consumer prices (as measured by the Consumer Price Index) increased by 16.7 per cent; total registered unemployed reached over 5 per cent of the estimated labour force; gross domestic product at constant prices grew by 0.6 per cent.

An overview of 1975-76 is not very different. Consumer prices increased by 13.0 per cent; total registered unemployed remained high, varying between 4.1 per cent and 5.7 per cent of the estimated labour force; gross domestic product at constant prices increased by 1.6 per cent.

High rates of price increases pervaded most areas of the economy in both years. In 1974–75, the food component of the Consumer Price Index increased by 9.7 per cent, while the indexes for the other components increased by between 17.3 per cent and 21.0 per cent. The CPI 'all groups' index increased by 16.7 per cent, compared with a 12.9 per cent increase in 1973–74. In 1975–76 the highest increases in CPI components occurred in the clothing and drapery component (16.2 per cent) and the housing component (18.0 per cent). Increases in the indexes of other components ranged between 9.9 per cent and 12.3 per cent, to give an 'all groups' index increase of 13.0 per cent. The price index of materials used in house building showed increases of 13.5 per cent in 1975–76, 21.2 per cent in 1974–75 and 15.4 per cent in 1973–74. For materials used in building other than house building, the price index increased by 15.1 per cent in 1975–76, 22.9 per cent in 1974–75 and 13.1 per cent in 1973–74. Increases of 9.2 per cent in 1975–76, 7.7 per cent in 1974–75 and 18.3 per cent in 1973–74 were exhibited by the price index of materials used in manufacturing industry.

The overall performance of the economy can be summarised by the growth in gross domestic product at constant prices. This aggregate rose by 1.6 per cent in 1975-76 and by 0.6 per cent in 1974-75, compared with an increase of 5.6 per cent in 1973-74. The non-farm component increased by 1.1 per cent in 1975-76 but fell by 0.1 per cent in 1974-75. Gross farm product, at constant prices, increased by 9.4 per cent in 1974-75, with increases occurring in the production of most farm commodities. However, falling prices resulted in gross farm product at current prices decreasing by 19.1 per cent. In 1975-76, a recovery in meat and wool prices and increased farm production resulted in gross farm product increasing by 2.9 per cent at current prices and 6.4 per cent at constant prices.

The rate of increase in wages, salaries and supplements moderated during 1975-76, increasing by 14.7 per cent, compared with increases of 28.6 per cent in 1974-75 and 23.0 per cent in 1973-74. Average weekly earnings per employed male unit increased in those years by 14.2 per cent, 25.6 per cent and 16.3 per cent respectively. Annual average employment (excluding agriculture and private domestic service) fell by 0.2 per cent in 1975-76, following increases of 0.4 per cent in 1974-75 and 3.9 per cent in 1973-74. Gross operating surplus increased by 17.7 per cent in 1975-76, by 0.7 per cent in 1974-75 and by 16.9 per cent in 1973-74.

At constant prices, gross national expenditure increased by 0.2 per cent in 1975-76, with a strong increase in final consumption expenditure, offset by a significant turn around from stock accumulation in 1974-75 to stock decumulation in 1975-76. In 1974-75 gross national expenditure at constant prices fell by 0.3 per cent. There were significant reductions in private gross fixed capital expenditure and in the rate of stock accumulation, but strong growths in final consumption expenditure (private and government) and in public gross fixed capital expenditure.

Private final consumption expenditure at constant prices increased by 3.1 per cent in 1975-76, by 3.0 per cent in 1974-75, and by 6.1 per cent in 1973-74, with household durables recording the highest level of growth in each of those years. Government final consumption expenditure at constant prices showed the most consistent growth of any expenditure aggregate, increasing by 8.1 per cent in 1975-76, by 6.4 per cent in 1974-75, and by 6.9 per cent in 1973-74. In each of those years increases in expenditure on education and health, welfare and social security were significant. Private gross fixed capital expenditure at constant prices increased by 1.5 per cent in 1975-76 after falling by 10.3 per cent in 1974-75, and increasing by 7.8 per cent in 1973-74. The components of private gross fixed capital expenditure moved in different directions, with expenditure on dwellings increasing by 13.7 per cent in 1975-76 after falling by 23.5 per cent in 1974-75, expenditure on other building and construction falling by 11.0 per cent in 1975-76 and by 1.9 per cent in 1974-75, and expenditure on all other fixed capital increasing by 0.4 per cent in 1975-76 after falling by 5.7 per cent in 1974-75. Public gross fixed capital expenditure fell by 0.8 per cent in 1975-76, after increasing by 14.9 per cent in 1974-75 and by 1.9 per cent in 1973-74.

The large increase in the book value of private non-farm stocks of \$2,546 million in 1974-75 occurred primarily in the manufacturing and wholesale and retail trade sectors, and was mainly due to price increases. A large increase in the book value of stocks held by the Australian Wool Corporation more than offset falls in the book value of farm stocks, the increase in book value of farm and miscellaneous stocks being \$275 million. After deducting the stock valuation adjustment, private non-farm stocks increased by \$567 million and farm and miscellaneous stocks by \$204 million. In constant prices, the increases were \$380 million and \$181 million respectively.

In 1975-76 private non-farm stocks increased in book value by considerably less than in the previous year, increasing by \$1,980 million. Small increases in the book value of manufacturing and wholesale trade stocks more than offset a large increase in the book value of retail trade stocks. The book value of farm and miscellaneous stocks increased by \$85 million in 1975-76; the book value of stocks held by the Australian Wool Corporation fell, while the book value of wheat stocks rose. However, after deducting the stock valuation adjustment, both private non-farm stocks and farm and miscellaneous stocks fell during 1975-76 by a total of \$172 million. At constant prices, the decrease was \$121 million.

During 1974-75 the balance of payments position changed from a deficit of \$715 million during the first half of the year to a surplus of \$251 million in the second half. For the year the deficit was \$464 million, compared with a deficit of \$435 million in 1973-74 and a surplus of \$1,071 million in 1972-73. Exports of goods and services increased by 27.9 per cent (by 7.1 per cent at constant prices) and imports of goods and services by 30.7 per cent (by 1.3 per cent at constant prices), giving a deficit on goods and services of \$56 million in 1974-75 compared with a surplus of \$124 million in 1973-74. The balance on current transactions resulted in net borrowings from overseas of \$731 million in 1974-75, compared with net borrowings from overseas in 1973-74 of \$488 million; in 1974-75 net apparent capital inflow (excluding undistributed income) was \$267 million, resulting in a rundown of overseas reserves of \$464 million.

In 1974-75 exports f.o.b. increased by 26.9 per cent (by 11.3 per cent in 1973-74), with increases in the value of exports of wheat, sugar, coal, iron and steel being offset to some extent by falls in the value of exports of wool, meat and meat preparations. Exports of services increased by 34.0 per cent in 1974-75, compared with a rise of 15.3 per cent in 1973-74, and was attributable mainly to transportation services which rose by 39.3 per cent. Imports f.o.b. increased by 33.1 per cent in 1974-75 (by 51.1 per cent in 1973-74) due to substantial rises in the value of imports of petroleum and associated products, chemicals, machinery and transport equipment, clothing and scientific equipment. Imports of services increased by 23.3 per cent in 1974-75 (by 25.1 per cent in 1973-74) due mainly to increases in transportation services (rising by 24.8 per cent) and overseas travel (up by 25.5 per cent).

The balance of payments was in deficit by \$1,010 million during the first half of 1975-76 and by \$10 million in the second half of the year, giving a deficit of \$1,020 million for 1975-76. Exports of goods and services increased by 9.7 per cent (by 2.2 per cent at constant prices) and imports of goods and services by 4.7 per cent (a fall of 5.1 per cent at constant prices) resulting in a surplus on goods and services of \$433 million for 1975-76. The deficit on total current transactions resulted in net borrowings from overseas of \$580 million; net apparent capital outflow (excluding undistributed income) was \$440 million, resulting in a rundown in overseas reserves of \$1,020 million.

In 1975-76 exports f.o.b. increased by 10.7 per cent, reflecting rises in the value of exports of coal, wool, meat, chemicals and metal ores, partly offset by decreases in the value of exports of manufactured goods, machinery and transport equipment, sugar and cereals. Exports of services increased by only 3.9 per cent, although transport services rose by 9.1 per cent. Imports f.o.b. increased by 3.4 per cent, with rises in the value of imports of textiles, electrical machinery, miscellaneous manufactures and petroleum. Imports of services rose by 8.9 per cent.

The volume of money (M3 definition) increased by 15.2 per cent over the year to June 1975, compared with an increase of 14.5 per cent over the year to June 1974. The 1974-75 Commonwealth Government Budget deficit was an important factor contributing to the increase. The level of loans, advances and bills discounted increased in 1974-75 by 10.7 per cent for all trading banks, and by 27.1 per cent for savings banks. Trading banks increased interest rates on deposits and maximum interest rates on overdrafts by about 2 percentage points in July 1974. Similar increases were made to savings bank interest rates on investment accounts and housing loans.

Over the year to June 1976, the volume of money (M3 definition) increased by 13.8 per cent, with the size of the 1975-76 Commonwealth Government Budget deficit being an important contributing factor. A balance of payments deficit provided some offsetting influence. Significant increases in the level of loans, advances and bills discounted occurred during 1975-76, increasing by 12.1 per cent for all trading banks and by 27.5 per cent for savings banks. Trading banks reduced the minimum interest rate payable on short term fixed deposits by 1 percentage point in January 1976, and reduced the maximum interest rate payable on overdrafts by the same magnitude in February 1976. A small increase in the minimum interest rate charged by savings banks on housing loans to individuals occurred in September 1975; savings banks made adjustments to interest rates paid on investment accounts, downwards in February and March 1976, and upwards in June 1976.

Total civilian employment (excluding agriculture and private domestic service) fell by 1.1 per cent between June 1974 and June 1975. Registered unemployment increased dramatically from 78,827 persons in June 1974 (about 1.3 per cent of the estimated labour force) to 245,975 persons in June 1975 (about 4.5 per cent of the estimated labour force), having reached 311,596 persons (about 5.2 per cent of the estimated labour force) in January 1975.

In June 1976 civilian employment was 0.3 per cent lower than in the previous June and registered unemployment stood at 265,251 persons (about 4.4 per cent of the estimated labour force) after 343,939 persons (about 5.7 per cent of the estimated labour force) had been registered as unemployed in January 1976.

The calendar year 1974 saw the highest recorded level of industrial disputation in Australia. There were 2,809 disputes involving 2 million workers losing 6.3 million working days and \$128.3 million in wages. The major disputes involved metal, building, transport and meat workers in support of claims for better wages and conditions. In 1973 there had been 2,538 disputes involving 803,000 workers losing 2.6 million working days and \$45.2 million in wages. Fewer disputes occurred in 1975, there being 2,432 disputes involving 1.4 million workers with 3.5 million working days and \$95.8 million in wages being lost. Claims for wages and conditions were again the major cause of disputation. Strikes also occurred during the political events of November 1975. The level of strike activity was generally lower during the first half of 1976. About a half million working days were lost in June as a result of short strikes against proposed changes to Medibank.

1974-75

July 1974

- 1 The Broken Hill Proprietary Co. Ltd announced an 8.7 per cent increase in steel prices following Prices Justification Tribunal (PJT) approval.
 The Commonwealth Government announced the formation of a Structural Adjustment Board to assist industry to adjust to changing economic conditions and Government policy.
- 8 The Reserve Bank lowered the Statutory Reserve Deposit (SRD) ratio by 0.6 percentage points to 6.9 per cent. It was further reduced to 6.0 per cent on 11 July, and to 5.5 per cent on 23 July. Trading banks' basic interest rates on overdrafts of less than \$50,000 were increased from 9½ per cent to 11½ per cent, and on fixed deposits from 8 per cent to 10 per cent. Interest rates on savings bank loans and investment accounts increased by the same magnitude.
- 9 Import licensing controls on certain clothing items were announced.
 Special Bonds—Series 2D, issued with interest rates ranging from 9.2 per cent to 9.6 per cent, replaced Series 2C. Net redemptions for the September quarter were \$8.6 million.
- 15 The Commonwealth Government cash and conversion loan was opened, offering two year bonds at 11 per cent, 5 year bonds at 10 per cent and long term bonds at 9.5 per cent. The cash offer raised \$144 million (93.5 per cent from the shortest termed bond); the conversion offer raised \$32 million.
- 17 The European Common Market banned all beef imports until November. The ban was extended indefinitely on 23 October.
- 23 The Treasurer presented a 'mini-budget' with the following provisions: an increase in single pensions of \$5 per week, and increases in associated benefits; a rise in duty of 3 cents a nip on spirits and 4 cents on a packet of 20 cigarettes (duty was also increased on other tobacco products); increased charges for telephone connections, rentals and calls and postage; a cut back in the total immigration intake in 1974-75; postponement of the pre-school and child care program; and deferral of the proposed abolition of the means test on age pensions.
- 29 A strike by ships' engineers, which lasted 20 days and tied up more than 50 ships, was resolved. The Senate deferred increased postal and telephone charges until the September budget. The Australian Wheat Board announced the sale of one million tonnes of wheat (valued at about \$115 million) to China.

August 1974

- 5 The PJT recommended a 12 per cent increase in interstate freight rates charged by Mayne Nickless Ltd.
- 8 The Variable Deposit Requirement relating to overseas borrowings with a maturity of more than 2 years was reduced from 25 per cent to 5 per cent.
- 9 The N.S.W. Industrial Commission granted four weeks annual leave and a 17½ per cent loading on holiday pay to about one million workers under N.S.W. awards.
- 12 Ansett and TAA increased passenger fares and freight rates by an average of 12½ per cent.
- 20 The Arbitration Commission awarded oil industry workers a \$25 a week wage increase from 8 August, with a further \$5 a week increase from 31 October. The PJT recommended price increases of between 5.8 cents and 11.6 cents per kilogram for aluminium products produced by Alcoa.
- 23 The Grants Commission recommended grants for local government areas to upgrade amenities and services, and reduce inequalities between local government areas.
- 26 The PJT recommended an 8.4 per cent price rise for products produced in the glass division of Australian Consolidated Industries Ltd.
- 27 The Commonwealth Government announced that a minimum floor price equivalent to 250 cents per kilo clean for 21 micron wool would be guaranteed during the 1974-75 season. The Tasmanian Treasurer presented the 1974-75 State Budget, providing for a deficit of \$1.9 million.

29 The SRD ratio was lowered 0.5 percentage points to 5.0 per cent. The Commonwealth Government approved price increases for iron ore exported to the Nippon Steel Corporation. The new prices would increase revenue by 28½ per cent in a full year. The South Australian Premier presented the 1974-75 State Budget, providing for a \$12 million deficit.

September 1974

- 4 The retail price of GMH vehicles and accessories rose by an average of 4.3 per cent following PJT approval. The PJT recommended weighted average wholesale price increases of 4.95 per cent for Ford, and 5.0 per cent for Chrysler.
- 10 The Commonwealth Government approved a 25 per cent increase in Australian National Line coastal freight rates.
- 11 The Commonwealth Government announced details of its Regional Employment Development Scheme. Initially \$2 million per month would be spent to improve employment opportunities in areas of excessively high unemployment.
 The Arbitration Commission granted a \$9 a week wage rise to metal workers. Related workers

subsequently received a flow on of the increase. The Transport Workers Union was granted wage increases of \$15.50 a week from 25 July and a further \$9.98 a week from 1 October.

- 12 The proportion of depositors' balances required to be held by savings banks in prescribed liquid assets and public sector securities was reduced from 60 per cent to 50 per cent.
- 13 The Organisation of Petroleum Exporting Countries (OPEC) announced a 3.5 per cent average increase in oil export prices for all member nations except Saudi Arabia, to be effective from 1 October.
- 17 The Budget introduced by the Federal Treasurer provided for an expenditure in 1974-75 of \$16,274 million, an increase of \$3,980 million or 32.4 per cent. Total receipts were estimated at \$15,704 million, the domestic surplus at \$23 million and the overall deficit at \$570 million. The main proposals of the Budget were: lowering of income tax rates on taxable incomes up to \$10,500 with slight increases on incomes greater than that; imposition of a realised capital gains tax and a surcharge on income tax paid on property income (the latter proposal was later amended); changes to deductions for capital expenditure and exploration expenditure in the mining sector; an increase in the private company tax rate to 47½ per cent; the abolition of broadcast listeners' and television viewers' licence fees; an increase in the basic letter postage rate to 10 cents; expenditure on education to be increased by 78 per cent to \$1,232 million; health expenditure to be increased by 30 per cent to \$1,232 million; 34 per cent increase to \$235 million in payments to the States for welfare housing purposes; urban and regional development expenditure to increase 160 per cent to \$433 million.

The Victorian State Railways announced a record loss of \$73.2 million in the 1973-74 financial year.

The Commonwealth Government announced that known reserves of existing Australian oilfields were 3,300 million barrels, or 15 years supply at the current rate of consumption.

- 18 Pay rises averaging \$14 a week for officers and \$15 a week for other ranks in the armed services were announced.
- 23 Victorian public servants were granted a \$15 a week pay rise.
- 25 The SRD ratio was lowered from 5 per cent to 4 per cent.

The Prime Minister announced a 12 per cent devaluation of the Australian dollar. It would no longer be linked to the United States dollar but an average of foreign currency values weighted in accordance with their trading significance to Australia.

The Treasurer and Premier of Victoria presented the 1974-75 State Budget providing for a \$3 million deficit.

The Treasurer of New South Wales introduced the 1974~75 State Budget which provided for a \$14 million deficit.

The Queensland Treasurer introduced the 1974-75 State Budget which provided for a deficit of \$0.8 million.

October 1974

- 1 The National Employment and Training (NEAT) scheme came into operation.
 Restricted trade practices legislation became operative.
- 3 The Western Australian Premier and Treasurer introduced the 1974-75 State Budget, providing for a deficit of \$9 million.
- 4 Yields on 13-week Treasury Notes were reduced from 10.75 per cent to 9.36 per cent, and on 26-week notes from 10.76 per cent to 9.47 per cent.
- 7 Victorian rail freight rates were increased by 22.5 per cent.
- 10 The SRD ratio was lowered by 1 percentage point to 3 per cent.
- 11 Loans of \$75 million to State Governments for housing were announced.
- 17 The PJT approved increases of between 1.7 cents and 1.95 cents a gallon in the wholesale prices of petrol, kerosene and heating oil.
- 18 Import restrictions on most types of footwear, to take effect immediately and remain in force for 12 months, were announced by the Prime Minister.
- 22 The Reserve Bank made available to the major trading banks a special drawing facility of about \$112.5 million to run for 180 days with an option available to the banks to extend it for a further 180 days.
- 24 The Australian Wheat Board announced the sale of one million tonnes of Australian wheat to Russia for more than \$150 million. A similar sale to Egypt was announced on 31 October 1974.
- 25 The PJT approved the following weighted average wholseale price increases for motor vehicles: GMH—3.16 per cent; Chrysler—3.43 per cent; Toyota—14 per cent.
- The Treasurer announced amendments to the 10 per cent tax surcharge on capital gains proposed in the budget; assessable incomes below \$5,000 would be exempt, with a sliding scale operating in the range \$5,000 to \$5,500.
- 31 The Commonwealth Government announced that the Atomic Energy Commission would act as the Government's agent in the mining, treatment and sale of uranium. It would also undertake all new exploration in future beyond that now conducted by companies with exploration licences.

November 1974

- 1 The Arbitration Commission awarded bank officers a pay increase of \$7.44 a week applying from 1 October 1974.
- 3 New guidelines for foreign investment in the mining industry were released by the Prime Minister.
- 6 The Flight Crew Officers' Tribunal awarded a pay rise of 27.6 per cent to Qantas pilots, flight engineers and navigators, effective from 1 June 1974.
- 7 The Australian Industry Development Corporation announced its first local issues of stocks to the public.
 The PJT granted Ampol Petroleum a 1.6 cents a gallon increase in the wholesale prices of petrol, kerosene and distillates products.
- 8 The Ford Motor Company dismissed about 500 workers in Sydney.
- 10 The Treasurer announced that the variable deposit requirement scheme for overseas borrowings was suspended. The embargo on new overseas borrowings repayable in two years or less was modified to apply only to borrowings of six months or less.

 Treasury Note yields were reduced from 9.36 per cent to 8.69 per cent on 13-week notes, and from 9.47 per cent to 8.86 per cent on 26-week notes.
- 12 The Prime Minister announced new economic policies including: personal income tax cuts effective from I January 1975; cuts in private and public company tax from 47.5 per cent to 45.0 per cent; provision to savings banks of an additional \$150 million for housing loans; increases in import duties on built up and completely knocked-down motor vehicles; the relaxation of staff ceilings for staff employed under the Public Service Act.

- 18 Crude oil was removed from PJT jurisdiction.
- 24 Ansett pilots and management negotiated a 24 per cent pay increase. TAA pilots were subsequently granted an award increase and over award payment providing the same salary increase.

December 1974

- 1 The home consumption price of wheat increased by \$12.30 to \$83.40 per tonne. The price of aluminium ingots produced by Comalco Aluminium (Bell Bay) Limited was increased by 8.9 per cent with PJT approval. The Commonwealth Government announced details of assistance for workers and families forced to relocate themselves to secure suitable employment.
- 2 The Public Service Arbitrator granted pay rises ranging from 13.5 per cent to 23 per cent to Australian Public Service third division clerical and administrative staff, postal workers, and fourth division clerical assistants and keyboard employees.
 The AMA recommended increases in doctors' fees of 32 per cent, effective from 1 January 1975.
 The NSW Transport Commission increased interstate rail fares by between 17 and 22 per cent.
- 3 The Prime Minister announced the introduction of tariff quotas for 12 months on imported acrylic apparel yarns, knitted or crocheted fabrics of man-made fibres and terry towels.
- 9 The Treasurer announced the deferment, until 30 June, of company tax payments due on 15 February 1975, and also a scheme of accelerated depreciation.

 Treasury Note yields were reduced by approximately 0.7 percentage points, 13-week notes to 7.98 per cent and 26-week notes to 8.18 per cent.
- 12 Academics' salaries were increased by between 16 and 33.7 per cent, effective from 16 October 1974.
- 13 The PJT approved price increases of 7.8 per cent (weighted average) for products produced by BHP. A 2.45 per cent increase in prices of cars produced by Ford was announced, and similar increases were subsequently approved for Chrysler and GMH.
- 16 GMH announced that it would cut its staff by up to 5,000 workers in January 1975. Comalco Limited announced that it was cutting back primary aluminium production at its smelter at Bell Bay, Tasmania.
- 17 Legislation to enable the Commonwealth Government to make loans of up to \$350 million to the Australian Wool Corporation was assented to. Liquor Trades employees were granted a \$6 a week pay increase.
- 18 The Arbitration Commission increased the male minimum wage by \$8.00 to \$76.10 a week. The female rate was adjusted by \$7.20 to 90 per cent of the male rate.
- 19 The PJT approved price increases for Blue Circle Southern Cement Ltd. of \$3.57 a tonne for bagged cement and \$2.83 a tonne for bulk cement.
- 20 The Commonwealth Government announced that tariff rates on car parts imported for assembly in Australia would increase to 27.5 per cent in January 1975, and gradually increase to 35 per cent over a four-year period. The quantity imported would also be limited.
- 23 Partners in the Hail Creek (Queensland) joint venture announced the sale to Japan of 66 million tonnes of coking coal (worth about \$2 billion) over 15 years.
- 25 Darwin was devastated by Cyclone Tracy in Australia's worst ever natural disaster.
- 30 The Commonwealth Government set up the Darwin Reconstruction Commission to supervise the rebuilding of the city, and decided to give special welfare payments to all victims of the cyclone.
- 31 The United States Government called for voluntary restraints by foreign beef suppliers to restrict beef import levels to about 560,000 tonnes in 1975. Australia would be restricted to about 280,000 tonnes.

January 1975

- 1 The new personal income tax rates announced on 12 November became effectivet.
- 7 The Commonwealth Government approved a scheme to increase subsidies for the employment of apprentices.
- Treasury Note yields were reduced by approximately 0.2 percentage points to 7.81 per cent on 13-week notes and 8.01 per cent on 26-week notes.
 EZ Industries Limited announced a 20 per cent reduction in zinc output from its refinery at Risdon, Tasmania.
- 14 Rates of duty on imported car and truck tyres were increased.

 The Commonwealth Government announced the introduction of tariff quotas on men's shirts, woven pyjamas and other woven nightware.
- 21 Peko-Wallsend Ltd announced the closure of its smelter at Tennant Creek and the suspension of mining at the Warrego and Peko mines.
- 22 The Treasurer held separate meetings with the managing directors of GMH, Ford and Chrysler to outline Government plans to assist the industry in return for their undertaking not to dismiss workers.
- 23 BHP announced that production at its Port Kembla hot strip steel mill would be reduced by 30 per cent from 2 February 1975.

 The Treasurer announced the issue in Germany of a public loan of DM100 million (\$A32 million).
- 24 Broken Hill Associated Smelters Proprietary Limited announced that production at their Port Pirie lead smelter would be reduced by 16 per cent on the level achieved in the December half year.
- 28 The Commonwealth Government sales tax on all new cars from 27½ to 15 per cent for the next three months after which the rates would be restored to their former levels by equal monthly steps of 2½ percentage points, and imposed higher import quotas on passenger and light commercial vehicles. GMH said it would not retrench any employees for at least 90 days; Ford and Chrysler agreed to hold off dismissals for at least 30 days.
- 29 Extensions of the Regional Employment and Development scheme were announced.

 The Commonwealth Government decided not to proceed with the capital gains tax which had been proposed in the September budget.
- 30 The Arbitration Commission granted a pay rise of \$2.88 a week to postal workers.
- 31 Thiess Peabody Mitsui Coal Proprietary Limited signed a contract to supply Japanese steel mills with 73.9 million tonnes of Bowen Basin (Queensland) coking coal worth about \$2 billion over 17 years from 1979. Three new mines would be opened up.

February 1975

- The sale to China of one million tonnes of wheat worth about \$120 million was announced. The sale of three million tonnes of sugar, worth approximately \$1,200 million, to be shipped to Japan over the next 5 years, was announced.

 The Commonwealth Government announced that it would buy half of the interests of the Delhi International Oil Corp. in the Cooper Basin oil and gas field in the far north-east of South Australia and one quarter of all its other Australian exploration interests for about \$24 million. This was to be the first major direct purchase of Australian energy resources by the Commonwealth Government.
- 7 The Treasurer announced that the new maximum interest rates applying to public and private borrowings by local and semi-government authorities would be 9.4 per cent for short term, 9.7 per cent for medium term and 9.8 per cent for long term public loans, while the rate on private loans would be 0.1 percentage points higher.
- 9 The Australian Meat Board announced the sale of 40,000 tonnes of beef worth \$20 million to the Soviet Union.
- 10 Special Bonds series 2D were replaced by series 2E, with interest rates of 9.0 per cent to 9.6 per cent. Net redemptions for the March Quarter were \$41.5 million, and \$24.4 million for the December quarter.

- 11 BHP increased its steel prices by a weighted average of 6.03 per cent. The increase brought aggregate rises to 41.7 per cent since January 1973.
- 13 A Commonwealth Government cash and conversion offer opened with bonds offered carrying yields ranging from 8.5 per cent to 9.5 per cent. The cash offer raised \$389 million while the conversion offer raised \$209 million.
- 14 The Prime Minister announced the provision of an additional \$240 million to the States to be spent by 30 June, and to be used to create more employment and to retain employees facing retrenchment.
- 16 Alcoa of Australia Limited announced that they would reduce alumina production at their two refineries near Perth by about 18 per cent.
- 17 EZ Industries Limited announced a reduction in zinc production of 20 per cent and the suspension of superphosphate production at Risdon, Tasmania. Queensland Alumina Limited, Gladstone, announced that it planned to restrict production for at least the current quarter from an annual rate of 2.4 million tons a year to 2 million tons a year.
- 18 The Commonwealth Government made available a further \$30 million to the States for welfare housing.
- 19 About 2,000 production and maintenance workers employed by New South Wales breweries accepted a \$9 a week wage increase plus an extra \$1.50 in shift penalty rates and a 70 cents per week tool allowance for tradesmen.
- 27 The PJT recommended price increases for the Leyland Mini range of between \$74 and \$130.

March 1975

- 1 Caltex announced that the price of petrol would rise by 1.8 cents a gallon following PJT approval. Other oil companies were subsequently granted similar increases.
- 2 The ANZ Bank announced that interest tates on most advances and deposits below \$50,000 would be reduced as follows: the interest rate on overdrafts by 0.5 percentage points; on trading bank housing loans by between 0.25 and 0.5 percentage points; and on interest bearing term deposits by up to 1 percentage point. Most banks followed with similar adjustments.
- 3 The Arbitration Commission granted a \$6 a week pay rise to 30,000 textile workers.
- 4 The price of Holden cars rose from between \$60 and \$157, as recommended by the PJT. Further price increases were announced on 7 March to allow for retractor front seat belts and evaporative emission control equipment.
 Import quotas on a wide range of clothing were imposed.
- 4 Recommended pay rises of \$5,500 for members of Federal Parliament were accepted by Parliament. Salaries for judges and heads of Government Departments were also increased.
- 9 The Commonwealth Government imposed temporary import restrictions on hot and cold rolled sheets and plates of non-galvanised iron or steel, retrospective to 1 January. Imports would be limited during 1975 to 25 per cent of the total imported during 1972 and 1973.
- 11 The Commonwealth Government decided to increase pensions and associated benefits and take a further step in abolishing the means test on age pensions.

 The Treasurer announced that arrangements had been completed for the issue in Switzerland of a 60 million Swiss Franc loan (approximately \$A18 million).

 The Commonwealth Government imposed tariff quotas on domestic refrigerators, washing machines and clothes dryers, to apply for one year from 1 March.
- 13 The Commonwealth Government announced increases in war and service pensions and improved repatriation benefits.
- 17 A 2,400 tonne global beef import quota was announced by Japan. Japan announced further quotas of 11,500 tonnes on 27 June 1975 and 20,000 tonnes on 29 August 1975. The PJT recommended a 3.2 per cent price rise for Ford motor cars. Price increases for GMH and Chrysler followed.

- 20 A 5 per cent pay rise was granted to bank officers. About 1,200 second division officers of the Australian Public Service were granted pay rises of between 10 and 12 per cent.
- 25 A number of building societies in New South Wales reduced interest rates on home loans by 0.75 percentage points.
- 31 Under a 'voluntary restraint' scheme announced by the United States Government, Australia would be allowed to provide 52 per cent of a ceiling of 1,180 million pounds of beef to be imported by the United States in 1975.

April 1975

- 1 The N.S.W. Government reduced the maximum deposit rate for N.S.W. Permanent Building Societies from 10 per cent to 9 per cent.
 Prices of fully-imported Mazda vehicles rose by up to \$377 following a decision by the PJT.
- 4 Broken Hill Associated Smelters announced that lead output from its Port Pirie smelter in South Australia would be limited to 60 per cent of its capacity.

 The Victorian Building Societies Association recommended that building societies cut interest rates by 0.5 percentage points. The majority adopted the new rate from 1 May.
- 10 The Commonwealth Development Bank reduced interest rates on loans approved since 11 July 1974 generally by 0.5 percentage points, effective from 14 March.
- 15 The Commonwealth Government approved increases in international air fares and increases ranging from 5 to 8 per cent on Australian routes.
- 16 The Treasurer announced the placement of two DM50 million (\$A32 million) loans in Germany
- 21 The AMA recommended that doctors increase their fees by 12.5 per cent from 1 July. The Commonwealth Government commissioned an independent inquiry to determine the fees on which medical benefits would be based. The results of the inquiry, released 30 May, found justification for an increase of 4.2 per cent.
- 28 Nissan Australia announced an average retail price increase of 4.1 per cent in its Australian assembled Datsun 180B range following PJT approval.
- 29 The two largest building societies in Victoria reduced interest rates on small deposits.
- 30 Alcan Australia Limited decided to operate its Kurri Kurri smelter at only 66 per cent capacity. The Arbitration Commission granted a 3.6 per cent increase in all federal award wages, and increased the minimum wage by \$4 per week.

May 1975

- 6 The PJT granted Ampol Petroleum a 3 cents per gallon increase in petrol prices.
- 13 The Commonwealth Government announced that it would introduce temporary quotas on imports of tufted and axminster carpet should imports exceed specific "trigger" levels, and revise rates of duty on imports of textile and apparel and papermaking and printing machinery.
- 15 A Commonwealth Government cash and conversion offer opened, with bonds offered carrying interest rates ranging from 8.5 per cent to 9.5 per cent. The cash loan raised \$45 million, the conversion offer \$338 million. Net subscriptions to special bonds for the June quarter were \$3.2 million.
- 20 The PJT recommended price increases for Ford cars of 4.5 per cent across-the-board and between \$61 and \$187 for Chrysler cars. GMH was granted similar price increases on 2 June 1975.
- 22 The Federal Government made a submission to the Prices Justification Tribunal supporting BHP's application for a steel price increase.
- 27 The Commonwealth Government announced that the 250 cents per kilo wool floor price for 1974-75 would be extended to the 1975-76 season.
- 28 The PJT recommended price increases for Volkswagen motor vehicles of between 4.3 per cent and 6.9 per cent, and of \$175 to \$610 for Renault and Peugeot vehicles.

June 1975

- 11 The Victorian Master Builders' Association discontinued a weekly \$26 over award payment to about 12,000 metropolitan plumbers and builders' labourers. The employees were subsequently laid off. On 12 August the payment was reinstated, and the industry reopened.
- 13 A Federal Arbitration Commissioner adjusted wage rates to give full equal pay to 60,000 women in the clothing industry.
 The Treasurer announced the placement of a US\$100 million public bond issue in the United States
- 19 At the Premiers' Conference, the Prime Minister undertook to introduce legislation to increase the financial assistance grants otherwise payable in 1975-76 by \$220 million, and for the amount to be built into the base for calculating the grants in subsequent years; to add \$5 million to the base amount on which Western Australia's financial assistance grant for 1975-76 and subsequent years will be calculated; and to provide for an increase in the 'betterment' factor from the present 1.8 per cent to 3.0 per cent for calculating the grants for 1976-77 and subsequent years.
- 24 The High Court of Australia declared the Petroleum and Minerals Authority invalid.
- 27 The minimum award wage for storemen and packers was increased by \$13.30 to \$112 a week, with employees only receiving an increase in their 'paid rates' sufficient to bring their wage up to the new minimum award.
- 30 The Commonwealth Government announced that a temporary import restraint would apply from 1 July 1975 to 30 June 1976 on imports of certain garments from China.

1975-76

July 1975

- 1 The Medibank health insurance scheme came into effect.
 The Commonwealth Government announced that quotas on the export of tin from Australia had been extended until 30 September 1975.
- 3 BHP announced deferral of all capital expenditure, cancellation of consumer durable orders, sharp reductions in overtime and restrictions on all outside contracting services at steel works.
- 4 The Treasury Note yield on 13-week notes was reduced from 7.81 per cent to 7.31 per cent, and on 26-week notes from 8.01 per cent to 7.60 per cent.

 The Reserve Bank announced that the SRD ratio would rise by 1.0 percentage point on 16 July 1975, a further 1.0 percentage point on 5 August 1975, but would be reduced by 0.4 percentage points on 17 July 1975 to replenish the major trading banks' Term and Farm Development Loan Funds. Banks would also prepay loans amounting to 112.5 million made available under a special drawing facility due to expire on 18 October.
- 5 The Commonwealth Government announced that Japan had agreed to increase long-term purchases of Australian coking coal from approximately 27-29 million tonnes in the current year to 44-49 million tonnes per year by 1980.
- 14 The Arbitration Commission granted a \$9.30 a week pay rise to workers at GMH. By 29 July 1975 the Commission had awarded the increase to vehicle builders at all the other manufacturing companies. GMH indicated it would seek substantial increases in vehicle prices. The South Australian Government announced abandonment of the proposed Redcliffe petrochemical project in South Australia because of rising costs.
- 17 The Treasurer announced increases in the maximum interest rates for borrowing by local and semi-government authorities; the new rates for public issues would be 10.4 per cent for long term, 10.2 per cent for medium term and 9.7 per cent for short term loans. Private issues would carry the usual margin of 0.1 percentage points above these rates.
- 21 The Prime Minister announced that the growth of the Australian Public Service and statutory authorities would be limited to 1.5 per cent for the financial year 1975-76 in line with restraints on Government spending.
- 22 The Coal Industry Tribunal ruled that for the ensuing 3 months miners could be dismissed without severance pay if their industrial action caused closure of a mine.

 The Australian Wheat Board announced the sale to the Soviet Union of 750,000 tonnes of wheat worth about \$100 million.

- 24 The Commonwealth Government announced that import licensing would apply to imports of certain garments from Singapore, the Philippines and Thailand.
- 25 The Queensland Government announced power restrictions for the south-eastern area of the State and northern New South Wales, because coal stocks had been run down due to industrial action.
- 27 Domestic air fares charged by TAA and Ansett rose by an average 10 per cent. It was announced that cargo rates would rise by 10 per cent on 2 August.
- 28 The Australian National Line increased passenger fares and accompanied vehicle rates by 30 per cent. Coastal general cargo freight rates for ANL would increase by 40 per cent from 1 August 1975 (this increase is not to apply to northbound general cargo from Tasmania to the mainland, except for bulk commodities and paper).
- 30 The PJT approved a 10.5 per cent increase in steel prices charged by BHP.

August 1975

- 3 Treasury Note yields were reduced by approximately 0.1 percentage points, 13-week notes to 7.19 per cent and 26-week notes to 7.47 per cent.
- 8 Special Bonds Series 2E were replaced by Series 2F, with interest rates of 9.2 per cent and 10.0 per cent. Net subscriptions for the September quarter amounted to \$24.8 million.
- 11 The Commonwealth Government announced an additional Canadian import quota entitlement of 8,200 tonnes for Australian beef and veal. The import entitlement was to apply from 12 August to 31 December 1975
- 14 A Commonwealth Government cash and conversion loan opened, offering securities with interest rates ranging from 8.3 per cent to 10 per cent. The cash offer raised \$682 million, the conversion offer \$352 million.
- 18 Maintenance work was halted at the Australian Oil Refinery at Kurnell, where work bans supporting claims for a \$35 a week pay rise were imposed by members of four unions.
- 19 The Treasurer presented the 1975-76 Commonwealth Government Budget. The main features were: an increase in outlays of \$4,084 million or 23 per cent (including \$1,437 million for the introduction of Medibank) compared with an increase of \$5,601 million or 46 per cent in 1974-75; an increase of \$3,852 million or 25 per cent in receipts compared with an increase of \$3,702 million or 31 per cent in 1974-75; a deficit of \$2,798 million, \$231 million above the actual 1974-75 Budget deficit; a major restructuring of the personal taxation system including the introduction of a system of rebates to replace most deductions; a reduction in the general rate of company tax by 2.5 per cent; increases in duty on beer, potable spirits and tobacco; and the introduction of a levy on the production of crude oil and an export duty on coal.
- 21 Women employed in private banks were granted equal pay for performing the same duties as male officers.
- 26 Miners at Blackwater in central Queensland began an indefinite strike, cutting coal shipments to Swanbank.
- 27 New power restrictions put Queensland industry on a 3-day week.
- 28 The Premier and Treasurer of South Australia presented the 1975-76 State Budget, providing for the budget to be in balance, compared with a surplus of \$8.4 million in 1974-75.

September 1975

- 1 The Australian Postal Commission introduced higher postal charges designed to meet the cost of the service.
 - The Australian Telecommunications Commission introduced new charges for telephone, telegram and telex services.
- 3 The Commonwealth Government announced that Australia will be allowed to export an additional 10,600 tonnes of meat to the United States in 1975.
- 4 Power restrictions in the south-eastern area of Queensland and northern New South Wales ended when striking miners resumed loading coal for Swanbank.

 The Tasmanian Treasurer presented the State Budget, with an estimated deficit of \$4.9 million compared with an actual deficit of \$13.6 million in 1974-75.

- 5 The major oil companies rejected a \$35 per week pay claim. Caltex later stood down and subsequently reinstated 108 workers at its Kurnell refinery. The Arbitration Commission granted refinery workers a \$2.50 a week pay rise on 17 October 1975, to apply from 8 August 1975.
- 8 The Nippon Steel Corporation announced that Japanese steel mills would cut imports of iron ore by 10 per cent next year.
 The Queensland Government set new maximum rates to be observed by all permanent building societies in that State. The investment rate was lowered to 9.25 per cent, and the maximum home loan interest rate to 11 per cent. Building societies in New South Wales and Victoria subsequently reduced some interest rates.
- 10 The Victorian Premier introduced the 1975-76 State Budget which is expected to be in balance as in 1974-75.
- 15 Queensland coal miners were granted an average wage increase of \$11.80 a week and a 17.5 per cent loading on holiday pay conditional on the miners lifting all bans and limitations by 22 September 1975.
- 16 Papua New Guinea became an independent nation. The SRD ratio was increased from 4.6 per cent to 5.6 per cent.
- 18 The Arbitration Commission granted an increase of 3.5 per cent (the June quarter increase in the CPI) in Federal awards and an increase of \$2.80 in the minimum wage.

 Oil from newly discovered fields would now draw the same price at the nearest refinery port as the landed cost of imported crude oil.
- 23 The AMA proposed a 14 per cent rise in doctors' fees from 1 January 1976, and the Commonwealth Government commissioned an independent inquiry to determine the fee levels for Medibank benefits. The inquiry approved a 15.6 per cent increase.
- 24 The Prime Minister announced new guidelines for foreign investment in Australia.
- 25 The Arbitration Commission recommended that indexed pay rises for metal trades workers be based on their actual pay rates including over-award payments.
 The Treasurer announced that certain low grade steaming coal would be exempted from the newly established coal export duty.
 The Queensland Treasurer presented the State 1975-76 Budget, which provided for a \$5.6 million deficit compared with a deficit of \$8.3 million in 1974-75.
- 28 The OPEC increased the price of crude oil by 10 per cent to \$US11.51 per barrel. The new price would remain in force until June 1976.

October 1975

- 1 The 1975-76 NSW Budget was presented by the Premier. The deficit is expected to fall from \$40.5 million in 1974-75 to an estimated \$0.6 million in 1975-76.
- 2 The Premier of Western Australia presented the State's Budget which estimated to be in balance compared with an actual deficit of \$9.1 million in 1974-75.
- 7 BHP raised the price of steel by 8.75 per cent following PJT approval.
- 10 The Australian Wheat Board announced the sale of 1 million tonnes of wheat to Egypt and the sale of a further 0.5 million tonnes to the USSR. The combined proceeds of the sale will be about \$200 million.
- 15 The Opposition in the Senate moved to defer the Loan Bill 1975.

 A Commonwealth Government cash and conversion loan opened, offering securities carrying interest rates ranging from 8.5 per cent to 10.0 per cent. The loan subsequently raised \$358 million and the conversion offer \$281 million.
- 16 The Opposition in the Senate moved to defer Appropriation Bill (No. 1) 1975–76 and Appropriation Bill (No. 2) 1975–76.
- 21 The Commonwealth Government announced that the 1973 International Sugar Agreement had been extended for a further year.

November 1975

- 1 Freight increases of 17.5 per cent were imposed on liner freight exports to Japan.
- 3 The Arbitration Commission decided to carry forward the 0.8 per cent increase in the Consumer Price Index during the September quarter, and consider it together with the December quarter increase.
- 5 The SRD ratio was increased by 1 percentage point to 6.6 per cent.
- 7 The International Bauxite Association agreed to recommend a minimum pricing policy for aluminium ore exported by IBA members in 1976.
- 11 The Hon, J. M. Fraser was appointed Prime Minister in a care-taker capacity by the Governor-General until a general election could be held.
- 19 The Intergovernmental Committees of Copper Exporting Countries admitted Australia as an associate member.

December 1975

- 1 International air fares and cargo rates into and out of Australia rose by 3 per cent.

 The PJT approved price increases of 2.16 per cent on Ford passenger vehicles and 3.13 per cent on GMH's range of Bedford and Chevrolet trucks. GMH increased prices of passenger and commercial vehicles by 1.5 per cent on 30 December 1975.
- 13 National elections for both the House of Representatives and the Senate were held. The Liberal and National Country Parties were elected to Government with majorities in both Houses of Parliament.
- 15 A finance company subsidiary owned jointly by the Commonwealth Savings Bank and the Commonwealth Trading Bank opened for business.
- 16 Australia participated in the 27 nation Conference on International Economic Co-operation held in Paris to initiate dialogue between developed and developing countries.
- 17 The Treasurer announced that from 1 January 1976, exchange control would apply between Australia and Papua New Guinea.
 The Full High Court of Australia ruled that the Commonwealth had sovereign rights over the Australian territorial sea and continental shelf.
- 22 The Treasurer released details of a new investment allowance applying generally to new plant and equipment ordered between 1 January 1976 and 1 July 1978, where the cost of an individual item exceeds \$1,000. The minimum cost was later reduced to \$500, with a sliding scale applying between \$500 and \$1,000.
- 23 The Treasurer announced policy measures including a freeze on new expenditure apart from policy speech proposals; the introduction of a staff ceiling on employment under the Public Service Act equivalent to the end-November 1975 level of employment; and the temporary suspension of quarterly instalments of company tax.

January 1976

- 1 The Foreign Takeover Act 1975 came into force. New pay-as-you-earn tax instalment deductions, based on the system of personal income tax announced in the 1975-76 Budget, came into operation.
- 14 The Commonwealth Government announced the introduction of a new system of valuing imports for customs duty purposes based on the Brussels Definition of Value. The Commonwealth Government announced interim allocations of quotas on items of apparel, footwear, motor vehicles and certain iron and steel sheets and plates, pending final consideration by the Government.
- 16 The SRD ratio was increased from 6.6 per cent to 7.6 per cent.
- 19 The Commonwealth Government confirmed that it would support the wool industry for the balance of the 1975-76 selling season at 250 cents a kilogram for 21 micron wool on a clean basis, and stated that price support in the 1976-77 wool selling season would not be below the 250 cents level.

- 20 The Prime Minister announced the formation of the Economic Consultative Group, comprising 17 leading business and trade union representatives.
- 22 The Treasurer and the Reserve Bank announced a reduction in maximum bank lending rates from 11.5 per cent to 10.5 per cent; an increase from \$50,000 to \$100,000 in the size of overdrafts to which the maximum lending rate applies; a temporary increase in the agreed minimum LGS ratio from 18 per cent to 23 per cent; the opening of a Commonwealth Government cash and conversion loan on 29 January offering stocks with yields ranging from 8.5 per cent to 10.2 per cent (a total of \$772 million was raised); the introduction of the Australian Savings Bond to replace Special Bonds, with a fixed interest rate of 10.5 per cent (\$757 million was raised); and a reduction of about 0.2 percentage points in yields on Treasury Notes.
- 27 The Commonwealth and A.N.Z. Trading Banks announced reductions of 0.75 percentage points in their interest rates on term deposits of less than \$50,000. The Bank of New South Wales made similar reductions on 13 February.
- 29 The Australian Wheat Board announced the sale of 700,000 tonnes of wheat to China and 600,000 tonnes to India, at a total value of about \$150 million.
- 30 Restrictions were removed on the freedom of Australian residents to own, buy or sell gold in Australia.

February 1976

- 1 Inter-capital city rail fares were increased by 25 per cent.

 The Commonwealth Government announced its intention to allow private development of Australia's uranium resources.
- 3 The Prime Minister announced further reductions in planned expenditure for 1975-76 of \$300 million.
- 9 The Prime Minister announced new staff ceilings for the Australian Public Service, estimated to reduce expenditure by \$20 million in 1975-76.
- 10 The Commonwealth Government announced the suspension of the meat export levy from 1 March 1976; the reintroduction of the super-phosphate bounty on orders dated on or after 11 February until 30 June 1977 (subsequently amended to be payable on sales rather than orders); and the extension of the existing Dried Vine Fruit stabilisation scheme for 1976.
- 11 Series 1 Australian Savings Bonds were replaced by Series 2 Bonds with an interest rate 1 percentage point lower at 9.5 per cent.
- 12 Extensive floods occurred in northern N.S.W. and southern Queensland causing heavy loss of crops and livestock.
 The Commonwealth Government announced that legislation covering a new superannuation scheme for Commonwealth employees would come into effect on 1 July 1976.
- 13 The Arbitration Commission granted an increase of 6.4 per cent (the increase in the Consumer Price Index for the September and December quarters 1975) to Federal award wages and salaries.
- 25 The PJT granted Ford an interim 2 per cent average price rise for its full range of cars and trucks.

March 1976

- 1 The maximum interest rate payable on deposits by permanent building societies in N.S.W. was increased from 8.5 per cent to 9.0 per cent.

 Air fares between Australia and New Zealand rose by between 7 and 10 per cent.
- 3 GMH announced that it would spend \$17 million on the construction of a plant to manufacture 4 cylinder engines.
 Wool auctions which were to be held in Sydney, Melbourne and Canberra on 3 and 4 March
 - 1976, were cancelled because of a wool handling dispute. Storemen and packers returned to work on 21 April 1976, and wool sales resumed on 4 May 1976.
 - An agreement was signed for the issue of a DM100 (\$A31 million) loan in Germany.

- 15 The interest rate payable on deposits by Queensland permanent building societies was increased from 8.75 per cent to 9 per cent. The maximum rate on loans by societies was increased from 10.75 per cent to 11 per cent.
- 17 The Queensland Government suspended the trading operations of five permanent building societies in that State. These building societies were amalgamated on 14 April 1976.
- 18 The Treasurer announced a public bond issue in Switzerland for an amount of 100 million Swiss Francs (approximately \$A31 million).
- 19 The International Tin Council announced increases in the floor price and export quota for tin. The Commonwealth Government announced repatriation pensions increases of between \$1.80 and \$4.75 a week, and increases in aged pensions of \$2.50 a week in the single rate, and \$4.00 a week in the married rate.
- 25 The Arbitration Commission awarded an increase in the minimum wage of \$5.00 per week for employees under Federal awards.
- 30 Australia's beef import allocation to the U.S.A. was raised to 287,000 tonnes for 1976.
 The Commonwealth Government announced liberalisation of conditions for importing vehicles
 - and vehicle parts.
- 31 The Commonwealth Government announced that the Interim Agreement between Australia and New Zealand guaranteeing tariff preferences would be extended for one year to expire on 31 March 1977.

 The Commonwealth Government announced a new Home Savings Grants Scheme.

April 1976

- 1 The price of petrol fell 2.1 cents per litre in metropolitan N.S.W. following removal of the State petrol tax.
- 5 Australian Savings Bonds Series 2 were replaced by Series 3, with an interest rate to maturity of 9.2 per cent, 0.3 percentage points less than on Series 2 Bonds. Net raisings by Series 2 Bonds amounted to \$274 million.
- 8 A Commonwealth Government cash and conversion offer opened, with securities offered carrying yields ranging from 8.5 per cent to 10.2 per cent. The cash loan raised \$296 million and the conversion offer \$234 million.
- 12 The Treasurer announced that the quota available to Australia in the International Monetary Fund would increase by \$116 million to \$734 million as from the effective date of amendments of the IMF's Articles of Agreement.

 The maximum interest rate payable on deposits with permanent building societies in Queensland was increased to 9.5 per cent, and that chargeable on loans was raised to 11.75 per cent (with no maximum on loans over \$50,000).
- 13 The Queensland Parliament passed legislation to increase substantially the financial backing of building societies; regulate their lending activities and the duties of directors; provide for the sale of mortgages in certain circumstances; and provide for the establishment of a contingency fund.
- 14 The SRD ratio was reduced from 7.6 per cent to 6.6 per cent with a further reduction to 5.6 per cent to occur on 28 April 1976.
 Following PJT approval, the weighted average price of Ford cars increased by 1.72 per cent. Chrysler and GMH were subsequently granted similar increases.
 With PJT approval, BP's petrol prices increased by 0.28 cents a litre.
 A double taxation agreement between Australia and France was signed.
- 22 Domestic air fares increased by 3 per cent.
- 27 The Japanese Government announced that its beef import quota for six months from April to September 1976 would be set at 45,000 tonnes.
- 28 The Australian Wheat Board announced a wheat sale to Russia worth \$130 million.
- 29 The West Australian Industrial Commission granted workers under State industrial awards a 3.0 per cent pay increase to compensate for the March quarter increase in the Consumer Price Index.

May 1976

- 1 Alcoa Australia Ltd increased the prices for aluminium ingot and semi-fabricated products by an average 4.3 per cent.
- 11 The Commonwealth Government announced the underwriting, for the 1975-76 season, of the equalisation value for skim milk powder and the provision of additional funds for the Dairy Adjustment Program.
- 14 The Commonwealth Government announced restrictions on the issue of new dairy licences and relaxation of 'off-season' quota obligations in various States.
- 15 The Treasurer announced the completion of a bond issue of 100 million Netherlands guilders (\$A30 million).
- 20 The Treasurer announced the introduction of personal income tax indexation from 1 July 1976; changes to Medibank to apply from 1 October 1976; abolition of present taxation rebates for children and their replacement by a new system of family allowances.
 The Commonwealth Government announced extension of the Rural Reconstruction Scheme until December 1976; liberalisation and extension of the Fruitgrowing Reconstruction Scheme; an allocation of \$13.5 million in 1976-77 for dairy industry reconstruction.
- 21 The Commonwealth Government announced completion of a \$US200 million bond issue in the U.S.A.
- 28 The Arbitration Commission awarded an increase of 3.0 per cent (the increase in the Consumer Price Index for the March quarter) in Federal award wages and determinations up to and including \$125 per week; above \$125 a flat \$3.80 per week increase was to be applied.

June 1976

- 9 The Commonwealth Government announced increases in some tariff quotas on textiles and clothing.
 - The Commonwealth Government announced the introduction of a freight equalisation scheme for Tasmania.
 - The Commonwealth Government announced its approval of applications by the Toyota and Nissan motor companies for entry into the 85 per cent local content plan for production of passenger motor vehicles following satisfactory proposals by the two companies to use locally produced four cylinder engines.
- 10 At the Premiers' Conference and Loan Council meeting it was estimated that there would be a 16.4 per cent increase, in 1976-77, in funds available to the States and local authorities from tax sharing entitlements, Loan Council programs and welfare housing advances.
- 14 The Prime Minister announced that the ceiling for staff, for 30 June 1977, would be reduced by 1.6 per cent for staff employed under the Public Service Act, and by 0.9 per cent for staff employed by other statutory authorities.
- 16 The Reserve Bank announced a reduction in the SRD ratio of 0.6 percentage points to 5.0 per cent to replenish the trading banks' Term and Farm Development Loan Funds. Together with other measures, the fund would be replenished by \$159 million.
- 17 Australia and Japan signed the Basic Treaty of Friendship and Cooperation. The Queensland Government increased its coal export ceiling by 150 million tonnes to 450 million tonnes. The Commonwealth Government announced a reduction in most rates of tariffs on imports from developing countries, effective 1 July 1976.
- 23 The Australian Meat Board announced the introduction of a minimum price scheme for beef exports to Canada and Sweden.
- 30 Twenty-four hour stoppages occurred in Victoria in protest against proposed changes to Medibank.



APPENDIX

Some recent information which has come to hand since the various chapters were sent to press is given in summarised form in the following pages, but for later statistics on the subjects dealt with in chapters reference should in general be made to other publications issued by this Bureau, e.g. the Monthly Review of Business Statistics, the Digest of Current Economic Statistics, and the various mimeographed statements issued on particular subjects.

CHAPTER 3. GENERAL GOVERNMENT

Parliamentary government

STATE GOVERNORS, page 79

Sir Douglas Ralph Nicholls, O.B.E., was appointed Governor of South Australia on 1 December 1976.

SECOND FRASER MINISTRY—AT 25 MARCH 1977, page 83

(The State in which each Minister's electorate is situated and party affiliation are shown in parentheses. Party affiliation is indicated by the use of the following abbreviations: L.P. Liberal Party of Australia; N.C.P. National Country Party of Australia).

- * Prime Minister—
 THE RT HON. J. M. FRASER, C.H., M.P. (Vic.)
 (L.P.)
- * Deputy Prime Minister, Minister for National Resources and Minister for Overseas Trade— THE RT HON. J. D. ANTHONY, M.P. (N.S.W.) (N.C.P.)
- * Treasurer— THE RT HON. P. R. LYNCH, M.P. (Vic.) (L.P.)
- * Minister for Primary Industry and Leader of the House—

THE RT HON. I. McC. SINCLAIR, M.P. (N.S.W.) (N.C.P.)

- * Minister for Administrative Services, Vice-President of the Executive Council and Leader of the Government in the Senate—
 - Senator the Hon. R. G. Withers (W.A.) (L.P.)
- * Minister for Industry and Commerce— Senator the Hon. R. C. Cotton (N.S.W.) (L.P.)
- * Minister for Employment and Industrial Relations and Minister Assisting the Prime Minister in Public Service Matters—

THE HON. A. A. STREET, M.P. (Vic.) (L.P.)

- * Minister for Transport— THE HON. P. J. NIXON, M.P. (Vic.) (N.C.P.)
- * Minister for Education and Minister Assisting the Prime Minister in Federal Affairs— SENATOR THE HON. J. L. CARRICK (N.S.W.) (L.P.)
- * Minister for Foreign Affairs— THE HON, A. S. PEACOCK, M.P. (Vic.) (L.P.)
- * Minister for Defence— The Hon. D. J. Killen, M.P. (Qld) (L.P.)
- * Minister for Social Security— Senator the Hon. Margaret G. C. Guilfoyle (Vic.) (L.P.)

Attorney-General—
THE HON. R. J. ELLICOTT, Q.C. M.P. (N.S.W.)
(L.P.)

Minister for Business and Consumer Affairs— THE HON. J. W. HOWARD, M.P. (N.S.W.) (L.P.)

Minister for Health—
THE HON. R. J. D. HUNT, M.P. (N.S.W.)
(N.C.P.)

* Minister in the Cabinet.

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Minister for Immigration and Ethnic Affairs— THE HON. M. J. R. MACKELLAR, M. P. (N.S.W.) (L.P.)

Minister for Aboriginal Affairs and Minister Assisting the Treasurer

THE HON. R. I. VINER, M.P. (W.A.) (L.P.)

Minister for the Northern Territory and Minister Assisting the Minister for National Resources— THE HON A. E. ADERMANN, M.P. (Qld) (N.C.P.)

Minister for Post and Telecommunications and Minister Assisting the Treasurer—

THE HON. E. L. ROBINSON, M.P. (Qld) (L.P.)

Minister for Construction and Minister Assisting the Minister for Defence—

THE HON. J. E. McLEAY, M.P. (S.A.) (L.P.)

Minister for Environment, Housing and Community Development—

THE HON. K. E. NEWMAN, M.P. (Tas.) (L.P.)

Minister for Science-

SENATOR THE HON. J. J. WEBSTER (Vic.) (N.C.P.)

Minister for the Capital Territory and Minister Assisting the Prime Minister in the Arts— THE HON. A. A. STALEY, M.P. (Vic.) (L.P.)

Minister for Veterans' Affairs—

SENATOR THE HON. P. D. DURACK (W.A.) (L.P.)

Minister for Productivity, Minister Assisting the Prime Minister in Women's Affairs and Minister Assisting the Minister for Employment and Industrial Relations—

THE HON. I. M. MACPHEE (Vic.) (L.P.)

THE SENATE, page 89

Consequent on the death of Senator the Honourable I. J. Greenwood Q.C. (L.P.) Victoria, Mr H. W. R. Lewis was appointed to fill the casual vacancy.

THE HOUSE OF REPRESENTATIVES, page 90

The Honourable D. L. Chipp, M.P., Victoria resigned from the Liberal Party on 24 March 1977.

CHAPTER 7. POPULATION

The census

The following Tables present final statistics of the population of the six States and two mainland Territories of Australia as recorded at the Census of Population and Housing on 30 June 1976 after adjustment for under-enumeration as measured by a post-enumeration survey. The adjusted population totals are a better estimate of the actual population of Australia as at 30 June 1976 than the previously released as recorded figure. Corresponding Census statistics for 1971, similarly adjusted, are also shown.

Post-enumeration surveys were conducted after both the 1976 and 1971 Censuses, by specially trained interviewers. Net under-enumeration was derived by comparing results from the Census and the post-enumeration survey for the same individuals, and indentifying omissions and duplications in the Census.

While every effort is made to minimise under-enumeration in all field collections, including the Census, some inevitably remains for various reasons (e.g. inadvertant omission of very young children, treatment by the collector of an occupied dwelling as unoccupied). Refusal by householders to complete the Census Schedule is not a significant cause of under-enumeration, as estimates by the collector are used in such cases. These and similar problems are common to all population censuses, and although under-enumeration has increased in Australia since the 1971 Census, it is of a similar order to that experienced by comparable countries. For example, the percentage adjustment for underenumeration at the 1970 Census of the United States, was measured at 2.5 per cent.

The 1976 post-enumeration survey was based on a sample size of 2/3 per cent of households, compared with 1/4 per cent for 1971. The sample size was increased to provide more reliable data on the characteristics (e.g. sex, age, marital status) of omitted persons.

Persons living in non-private dwellings (e.g. hotels, motels, hospitals) and sparsely settled areas were excluded from both the 1971 and 1976 post-enumeartion surveys because of operational difficulties in conducting follow-up interviews. However, these amount only to about 5 per cent of the population, and hence any under-enumeration of them is unlikely to have a significant effect on the overall level of under-enumeration.

Since the estimates of under-enumeration are based on a sample of households, they may differ from the figures which would have been obtained had the post-enumeration survey included all households. One measure of the likely difference between the adjusted estimates given in this bulletin and those which would have been obtained had the post-enumeration survey been conducted over all households is given by the standard error, which indicates the extent to which an estimate might have varied by chance because only a sample was enumerated.

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The standard errors associated with the adjusted population statistics, expressed as a proportion of the total adjusted population, are given in Tables 1 and 2. There are about two chances in three that the adjusted population estimates will differ by less than one standard error from the figure that would have been obtained had the post-enumeration survey been conducted over all households, and nineteen chances in twenty that the difference will be less than two standard errors.

POPULATION ADJUSTED FOR UNDER-ENUMERATION: STATES, TERRITORIES AND AUSTRALIA, CENSUS 30 JUNE 1971

| | | | | | Population | | |
|-----------------------|---------|---------------------------------|---|-------|--|--------|-------|
| State or Territory | | Census (as recorded) '000 | Percentage adjustment Adjusted for under- estimate enumeration '000 | | Standard error as percent Standard of adjusted error population | | |
| New South Wales . | • | | 4,601.2 | 1.481 | 4,669.3 | 9,200 | 0.196 |
| Victoria | | | 3,502.4 | 1.069 | 3,539.8 | 3,600 | 0.101 |
| Oueensland | | | 1,827.1 | 1.696 | 1,858.1 | 2,000 | 0.105 |
| South Australia . | | | 1,173.7 | 1.015 | 1,185.6 | 2,100 | 0.175 |
| Western Australia . | | | 1,030.5 | 1.438 | 1,045.3 | 5,100 | 0.491 |
| Tasmania | | | 390.4 | 0.363 | 391.8 | 420 | 0.108 |
| Northern Territory | | | 86.4 | (a) | (a) | (a) | (a) |
| Australian Capital Te | rritory | | 144.1 | (a) | (a) | (a) | (a) |
| Australia . | | | 12,755.6 | 1.350 | 12,927.8 | 13,000 | 0.100 |

POPULATION ADJUSTED FOR UNDER-ENUMERATION: STATES, TERRITORIES AND AUSTRALIA, CENSUS 30 JUNE 1976

| | | | | Population | | |
|-----------------------------|------|---------------------------------|---|------------------------------|------------------------|--|
| State or Territory | | census (as recorded) '000 | Percentage adjustment for under- enumeration | Adjusted estimate '000 | S standard error | tandard error as percent of adjusted population |
| New South Wales | | 4,777.1 | 2.871 | 4,914.3 | 3,500 | 0.071 |
| Victoria | | 3,647.0 | 2.715 | 3,746.0 | 3,500 | 0.092 |
| Oueensland | | 2,037.2 | 3.659 | 2,111.7 | 1,800 | 0.085 |
| South Australia | | 1,244.8 | 1.350 | 1,261.6 | 700 | 0.056 |
| Western Australia | | 1,144.9 | 2.183 | 1,169.8 | 1,000 | 0.085 |
| Tasmania | | 402.9 | 1.116 | 407.4 | 320 | 0.077 |
| Northern Territory . | | 97.1 | 4.424 | 101.4 | 450 | 0.444 |
| Australian Capital Territor | ry . | 197.6 | 2.898 | 203.3 | 650 | 0.320 |
| Australia | • | 13,548.5 | 2.709 | 13,915.5 | 5,100 | 0.037 |

POPULATION: AVERAGE ANNUAL RATE OF INCREASE: 1971-1976

Average annual rate of increase between 1971 and 1976 Censuses based on:

| State or Territory | | | | | | | Population (as recorded) | Population adjusted for under- enumeration |
|--------------------|---|------|----|--|--|--|-----------------------------|---|
| New South Wales | | | | | | | 0.75 | 1.03 |
| Victoria | | | | | | | 0.81 | 1.14 |
| Oueensland . | | | | | | | 2.20 | 2.59 |
| South Australia . | | | | | | | 1.18 | 1.25 |
| Western Australia | l | | | | | | 2.13 | 2.28 |
| Tasmania | | | | | | | 0.63 | 0.78 |
| Northern Territor | у | | | | | | 2.36 | (a) |
| Australian Capita | | rito | ry | | | | 6.53 | (a) |
| Australia . | | | | | | | 1.21 | 1.48 |

⁽a) Adjustment percentages, adjusted population and rates of increase are not published, because they would be subject to sampling variability too high for practical purposes.

CHAPTER 13. SOCIAL SECURITY AND WELFARE SERVICES

Family allowances

Family allowances are payable to people with children under 16 years of age, or over 16 but under 25 years of age and receiving full-time education at a school, college or university and not in employment. There is no means test. Allowances are usually paid to the mother and to be eligible she must reside, or intend to reside, permanently in Australia and have the care of one or more children. Special conditions apply if the person does not intend to reside permanently in Australia

From July 1976, the rates of family allowances (formerly child endowment) were substantially increased in conjuction with the abolition of taxation rebates for dependent children.

The new rates are compared with the old rates below.

| | | | | New rate | Old rate |
|-----------------|---------|------|--|-------------|-------------|
| | | | | \$ per week | \$ per week |
| First child | | | | 3.50 | 0.50 |
| Second child | | | | 5.00 | 1.00 |
| Third child | | | | 6.00 | 2.00 |
| Fourth child | | | | 6.00 | 2.25 |
| Fifth and later | r child | iren | | 7.00 | 2.50 |
| | | | | | plus 25c |
| | | | | | for each |
| | | | | | subsequent |
| | | | | | child |
| Students . | | | | (a) | 1.50 |
| Child in an in | stituti | on | | 5.00 | 2.00 |

⁽a) The rate of family allowance for each student depends on the position of the student in the family.

At 30 June 1976, there were 4,357,000 children (including student children) covered by the allowances.

LIST OF SPECIAL ARTICLES AND MISCELLANEOUS MATTER CONTAINED IN PREVIOUS ISSUES

This list refers to special articles and other more or less important miscellaneous matter which have appeared in previous issues of the Year Book but which are not included, or are included in abbreviated form only, in the present issue.

The figures below indicate, respectively, the number and page of the Year Book to which reference is made. In cases where matter was published in more than one previous issue, the volume and page for the last issue containing such matter are given. For possible revisions, however, issues immediately following the one referred to should also be consulted.

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GENERAL INDEX*

This index is preceded by a list of the special articles, etc., which have appeared in previous issues of the Year Book. The illustrations contained in this issue are listed under the various chapters in the Contents (pages vii-xii). Where more than one reference to a subject is given, the chief reference, wherever it has been possible to determine it, is indicated by italic type. Two references to a subject so indicated signify major, and approximately equal, importance.

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