CHAPTER 20

TRANSPORT AND COMMUNICATION



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This chapter contains information on shipping; railways; tram, bus and ferry services; motor vehicles; road traffic accidents; roads and bridges; air transport; postal services; internal and overseas telecommunication services; radio communication stations; broadcasting and television; and government bodies concerned with these activities.

More detailed figures and particulars for earlier years are included in the publications listed at the end of the chapter.

TRANSPORT ORGANISATIONS

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 (ATAC), thus established, is comprised of the Commonwealth Ministers for Transport, Capital Territory, Northern Territory, and each State Minister responsible for transport and roads and the Northern Territory Minister for Transport and Works. The New Zealand Minister responsible for transport attends as an observer.

The council primarily considers policy matters relating to transport operations, co-ordination and developments. 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. The ATAC is the meeting ground at a ministerial level and provides an effective means of 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, and highway planning; the exchange of views and the formulation of common policies on a wide range of transport matters; the effecting, at ministerial level, of Commonwealth/State and interstate co-operation on such matters as urban transport arrangements and funding, provision of funds for roads, 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.

The Council is advised by the following four policy groups: Co-ordinating and General Transport Group, comprising principal Ministerial advisers, such as the Permanent Heads of the relevant Departments, deals with overall issues of policy co-ordination and development as well as topics which do not fall within the terms of reference of the other groups. Railway Group, comprising State and Commonwealth Railway Commissioners, together with Commonwealth Government representatives, advises on all railway matters considered by the Council. Road Group, comprising State Road Commissioners together with Commonwealth Government officials, advises the Council on matters concerned with the construction and maintenance of all classes of roads and their financing. The Motor Transport Group, consisting of the principal State officials in the motor vehicle safety and regulatory areas, together with Commonwealth Government representatives, advises the Council on all matters arising from the work of the technical advisory committees and on vehicle safety standards, technical standards and on-road operation.

The technical committees advising the Council are: The Advisory Committee on Vehicle Performance; The Advisory Committee on Road User Performance and Traffic Codes; The Advisory Committee on the Transport of Dangerous Goods; The Committee on Motor Vehicle Emissions; The Advisory Committee on Safety in Vehicle Design; The Publicity Advisory Committee on Education in Road Safety; and Ad-hoc advisory committees. In addition to these technical committees, an Energy Working Group reports to the Co-ordinating and General Transport Group on energy matters.

Transport Industries Advisory Council

The Transport Industries Advisory Council (TIAC) was formed following the March 1971 Australian Transportation Conference. The TIAC, an access channel between industry and the Commonwealth Minister for Transport, provides advice and comment to the Minister on policy issues as well as recommendations related to improving transport systems in Australia.

The 36 members of TIAC are drawn from senior management in all modes of transport, major consumers, Government bodies and unions. The Minister appoints members on the basis of personal expertise. New members, appointed annually, serve on the Council for extendable terms of three years. The full Council which meets four times a year, operates through three Working Committees. The Council is represented at pre-budget economic consultative meetings with the Prime Minister and Cabinet Ministers.

The Council was largely responsible for initiating the Transport Activity Indicator Project which provides quarterly statistical information on transport in Australia. Examples of topics currently under consideration by TIAC include the Australian rail systems; a uniform code for the safe transport of dangerous goods; future fuel and energy availability; container handling; identification of real transport costs; need for a national transport strategy.

The TIAC has a small Secretariat located in the Commonwealth Department of Transport.

Marine and Ports Council of Australia

The Marine and Ports Council of Australia (MPCA) provides an advisory forum for Commonwealth and State Governments in which to discuss initiatives and developments in marine and port matters. Membership comprises the Commonwealth Minister for Transport (Chairman) and State and Territory Ministers whose portfolios include responsibility for ports and maritime services.

Evolving from six meetings of a Commonwealth/State Ministerial Council for Port Development and Marine Affairs, the MPCA was convened for the first time in May 1976, bringing together Commonwealth and State policy-making machinery in relation to ports, the administration of shipping matters, cargo movements, shipping and marine laws, marine pollution control, safety and consultation on treaties. The Council now meets bi-annually.

To assist the Council in its deliberations there exists a Committee of Advisers comprising Commonwealth, State and Territory ministerial advisers, generally at permanent head level or equivalent, who are responsible for marine and ports matters. This Committee makes recommendations to Ministers on matters referred to them by Ministers or from within the Committee.

Aviation Industry Advisory Council

The Aviation Industry Advisory Council (AVIAC) was established in 1978 to enhance the level of consultation between the aviation industry and the Government. The Council provides advice to the Commonwealth Minister for Transport on policies, plans and programs relating to the aviation industry within Australia, promotes the continuing development of a safe, efficient, economic aviation industry within Australia, and provides a forum for discussion of important matters of joint concern to the aviation industry and Government.

Membership of the Council consists of the Commonwealth Minister for Transport (Chairman); Secretary to the Department of Transport; Chairman of Qantas Airways Ltd, Australian National Airlines Commission (TAA), Ansett Transport Industries Ltd, East-West Airlines; National President of the General Aviation Association; and presidents of the Aircraft Owners and Pilots Association of Australia and the Royal Federation of Aero Clubs of Australia.

The AVIAC has established a Committee of Advisers to assist in the analysis and preparation of matters to put to the Council for deliberation and decision.

The Bureau of Transport Economics

This Bureau, which from June 1977 incorporated the functions of the former Commonwealth Bureau of Roads, undertakes research and analysis to assist the Commonwealth Government in the assessment, formulation and development of policy aimed at the efficient allocation of resources in the transport field. This work covers all transport activities and includes the analysis of funding for road investment as well as matters relating to the reduction of transport costs and the rational planning of future transport facilities. For administrative purposes the Bureau is attached to the Department of Transport, but it is responsible to the Minister for Transport for the conduct of its studies and investigations.

SHIPPING

Control of shipping

Commonwealth Government navigation and shipping legislation

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 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, the Ship Construction Bounty Act 1975, the Trade Practices Act, 1974, Part X.

Navigation Act 1912 as Amended

One of the largest Commonwealth Acts, the Navigation Act, with forty-three sets of Regulations made under it, provides for various regulatory controls over ships and their crews, passengers and cargoes, mainly in connection with the ensuring of the safety of the ship and the preservation of life at sea. Substantial penalties are provided for serious offences. In particular, it gives effect to the important international conventions produced under the aegis of the Inter-Governmental Maritime Consultative Organization (IMCO) dealing with safety of life at sea, ships'load lines and prevention of collisions.

Taken in the order in which they appear in the Act, the main substantive matters dealt with are as follows:

Masters and seamen. Some sections deal with the examination of masters, mates and engineers for certificates of competency. Other sections ensure that appropriate conditions apply to crews serving on ships by providing for the supervision of the engagement, discharge and payment of wages; discipline at sea; the settlement of wages and other disputes; the return to their home port of distressed seamen; taking charge of wages and effects of deceased seamen and of those who have deserted or been left behind; and enquiries into deaths at sea. These matters are administered by Mercantile Marine Offices established at numerous ports. The health of seamen is cared for by the prescription of scales of medicines and medical stores to be carried by ships, and there are provisions to give effect to International Labour Organisation Convention requirements for the accommodation of crews. Plans for new or altered accommodation in ships have to be approved by a Crew Accommodation Committee.

There are requirements for the manning of ships, designed to ensure that sufficient officers and men are carried for safety and operational purposes. Manning disputes are dealt with by statutory Committees of Advice. The Act provides for a Marine Council to advise the Minister on the suitability of persons for engagement as seamen.

Ships and shipping. There are particularly important provisions dealing with ship safety in such matters as survey of ships, load lines, life-saving and fire appliances, prevention of collisions, and carriage of potentially dangerous cargoes. Whilst in Australia, all ships come under the survey provisions of the Navigation Act and require certificates issued by the Department of Transport unless they are registered in a country which is a party to the Convention concerned and hold valid certificates issued by their Governments and conforming to the requirements of the Safety of Life at Sea and Load Lines Conventions. There is power to detain any ship the condition of which does not conform with the conditions set out in its certificate or which appears to be overloaded or otherwise unseaworthy.

Passengers. These provisions deal with matters necessary or convenient for regulating the carriage of passengers in respect of such matters as numbers that may be carried, accommodation and health aspects.

Coasting trade. Under the coastal trade provisions of the Navigation Act, the Australian coastal trade is reserved for licensed vessels, i.e. those which comply with Australian standards of manning, accommodation, and award conditions and wages. The Act does not restrict the class of ships which may obtain a licence. It is open to any vessel irrespective of the registry to obtain a licence on compliance with these conditions and to operate in the Australian coastal trade subject to approval being given for the importation of the vessel where necessary. Provision exists for unlicensed vessels to operate in the coast trade under single voyage permits in certain circumstances where licensed vessels are not available or are inadequate to meet the needs of the trade. Strict control is exercised over the issue of permits for the carriage of coastal cargoes.

Wrecks and salvage. There are provisions in relation to wrecks and salvage, covering preservation of life and of the wreck and its cargo and related matters.

Prevention, etc., of pollution by oil of the Australian coast, coastal waters and reefs. Under these provisions, where oil is escaping, or likely to escape, from a ship, the Minister is empowered to take action to prevent or reduce pollution of the area.

Courts of Marine Inquiry. There are provisions for the holding of Courts of Marine Inquiry to investigate the circumstances attending any casualties to ships that come within Commonwealth legislative authority, usually following a preliminary investigation. Such courts are provided with power to examine all the circumstances and to deal with the certificates of ships' officers found to have been at fault.

The last amending Navigation Act was passed in 1972. It was mainly for the purpose of inserting provisions dealing with the tonnage measurements of ships. The Navigation Amendment Act 1979 (No. 98 of 1979) received Royal Assent on 22 October 1979. It deals with a wide range of matters and only amendments contained therein of a general or more formal nature are already in force. Important groups of sections of the Act will be brought into operation at appropriate dates in the future; regulations and orders must first be made, instruments of ratification of certain international conventions deposited and new procedures, etc. introduced.

Australian Shipping Commission

The Commission was established by the Australian Coastal Shipping Commission Act 1956. The Commission's role has been to establish, maintain and operate interstate, overseas and territorial shipping services. The Commission's title was changed in October 1974 to the Australian Shipping Commission to reflect the increasing importance of its overseas trading activities.

As at 30 June 1979 the Commission, operating as the Australian National Line, owned and/or operated a fleet of thirty-five vessels. The fleet included 13 vessels engaged in overseas trades comprising: five vehicle deck cargo ships totalling 104,712 tonnes deadweight; three cellular container ships totalling 95,951 tonnes deadweight; four ore-bulk carriers totalling 524,187 tonnes deadweight; and one hybrid container vessel of 16,477 tonnes deadweight.

The fleet also included twenty-two vessels engaged in coastal trades comprising one vehicle deck passenger ship, the *Empress of Australia* of 2,736 tonnes deadweight; seven vehicle deck cargo ships totalling 48,410 tonnes deadweight; one container bulkship of 12,140 tonnes deadweight in the Darwin trade; two bulk carriers in the over 100,000 tonnes deadweight class; three bulk carriers in the 50-100,000 tonnes deadweight class; six other bulk carriers each less than 50,000 tonnes deadweight totalling 96,301 tonnes deadweight; two bulk carriers totalling 55,190 tonnes deadweight which had yet to be commissioned by the Line.

The Line operated specialised terminals at Adelaide, Melbourne, Burnie, Devonport, Bell Bay, Sydney, Port Kembla, Brisbane, Mackay, Townsville, Cairns and Darwin.

The *Empress of Australia* carried 113,285 passengers between Melbourne and Devonport together with 30,501 vehicles during the year ending 30 June 1979.

Australian Shipbuilding Board

The Australian Shipbuilding Board has six members including representatives from each of the Departments of Defence (Navy Office), Transport and Industry and Commerce and the trade union movement and provides advice to the Minister for Industry and Commerce on matters relating to the shipbuilding industry. The Board advises the Minister on such matters as bounty prices and registration of shipyards within the terms of the Ship Construction Bounty Act, subsidy assistance under the provisions of the Australian Shipping Commission Act and other matters referred to the Board by the Minister.

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 inquiries into the industry by the former Tariff Board, now the Industries Assistance Commission. These inquiries have been held in 1954, 1959, 1963, 1971, 1976 and 1977–79.

Financial assistance under the present policy is given effect by the Ship Construction Bounty Act 1975. Assistance is by way of a bounty at a fixed percentage dependent 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 longer and other vessels of 150 gross construction tons and above. For the smaller vessels, bounty is at 25 per cent, rising at 2.5 per cent per 1,000 tons gross to the maximum which, in 1979, is 29 per cent. This diminishes to a long-term rate of 25 per cent for vessels commenced in 1981. The administration of the policy on shipbuilding assistance is the responsibility of the Minister for Industry and Commerce.

In May 1977, the Government sent a reference to the Commission on assistance to be accorded to the production of vessels under 6000 tg. The draft report was released on 2 April 1979, and the final

report was provided to the Government in July 1979.

In 1978-79, a total of 47 bountiable vessels were completed at Australian yards (as compared with 23 in 1977-78 and 31 in 1976-77). However, as construction of large ships in Australia ceased in 1978 the increase has been due to more extensive construction of fishing vessels, ferries, and launches.

As at 30 June 1979, a total of 41 yards were registered under the Bounty Act, however only 13 of these yards were actually building vessels. Vessels built at registered yards include tugs, oil rig supply vessels, fishing boats, and small trading vessels. In addition, there are numerous smaller yards building non-bountiable vessels such as pleasure craft, small fishing vessels, and other small craft.

Bounty and subsidy payments made during 1978-79 amounted to \$10.8 million reflecting a decline in such payments over the last four years (\$13.6 million in 1977-78, \$28.1 million in 1976-77, and \$43.7 million in 1975-76). The contraction and final cessation of large shipbuilding in Australia together with a reducing rate of bounty assistance accounts for the decrease in levels of bounty assistance.

Importation of Ships

The control of imports forms an integral part of the Government's shipbuilding assistance arrangements. Under the Customs (Prohibited Imports) Regulations ships may only be imported into Australia with the written permission of the Minister for Transport. The Minister has issued a General Consent under these Regulations permitting certain small vessels to be imported without his specific written permission.

Stevedoring Industry

In December 1977, legislation was introduced which provided for new administrative, financial and industrial arrangements for the stevedoring industry and abolished the Australian Stevedoring Industry Authority. The arrangements give the parties directly involved in the industry greater responsibility in the industry's affairs.

The Stevedoring Industry Finance Committee is responsible for the disbursement of funds col-

lected through statutory man-hour and cargo levies.

A federal co-ordinating committee comprising representatives of the employers and the Waterside Workers' Federation (WWF) and Broken Hill Pty Ltd (BHP) and the Australian National Line oversees the operation of arrangements agreed to in the General Agreement between employers and the WWF. At the port level such matters are handled by Port Co-ordinating Committees set up in the major ports.

Under section 85A of the Conciliation and Arbitration Act 1904 a Port Conciliation Service was created to assist parties to an industry award to implement the procedures of that award for the pre-

vention or settling of disputes.

A non-statutory Stevedoring Industry Consultative Council chaired by Sir Alan Westerman, CBE, has been established to provide a forum for discussion and liaison between government(s), user interests and the operating sections of the industry. The Chairman is appointed for a three year period by the Federal government.

The Statutory provisions relating to the industry are contained in the Stevedoring Industry Finance Committee Act 1977; the Stevedoring Industry Levy Act 1977, the Stevedoring Industry Levy

Collection Act 1977; and the Port Statistics Act 1977.

Tasmanian Freight Equalisation Scheme

The Commission of Inquiry into Transport to and from Tasmania in its Report published in March 1976 found that because of Tasmania's physical separation from the mainland by sea, Tasmanian shippers suffer a cost disability in moving non-bulk cargoes by sea between Tasmania and the mainland.

Following on from the Report, the Commonwealth Government introduced, with effect from 1 July 1976, the Tasmanian Freight Equalisation Scheme. The Scheme is designed to equalise door-to-door freight costs of moving certain eligibl commodities between Tasmania and the mainland by sea with those for moving similar commodities over comparable interstate mainland rail and road routes.

The northbound component applies to Tasmanian consignors of specified goods by sea that are bought for use or exported for sale on the mainland. Under the southbound component, however, only certain producer raw materials, machinery and equipment are eligible for assistance. The northbound component was introduced in July 1976 and the southbound component in July 1977. Assistance under the latter applied to shipments made from 1 July 1976.

In 1978-79 assistance provided under the Scheme for northbound cargoes totalled \$23.1 million, and \$1.6 million in respect of southbound cargoes. Since its inception assistance provided under the Scheme up to the end of 1978-79 totalled \$62.0 million. The Commonwealth Department of Transport is responsible for the administration of the Scheme.

Revised rates of assistance for northbound cargoes were introduced on 1 July 1978 following a review of freight costs by the Bureau of Transport Economics. The efficiency of the Scheme is to be reviewed not later than 1980.

Trade Practices Act 1974 (Part X-Overseas Cargo Shipping)

The Overseas Cargo Shipping provisions of the Trade Practices Act (Part X) are administered by the Minister for Transport.

Part X establishes conditions for the operation of outwards shipping conferences and to a lesser extent individual shipowners operating in Australia's outwards trades. Conference agreements between several shipowners in a particular trade make provision for the fixing of common freight rates. They may also include provisions for pooling arrangements and shares of the trade and rationalised sailing schedules. With suitable safeguards, these arrangements can have beneficial effects for shippers in that conference arrangements can lead to regular and predictable services at stable freight rates.

Part X, therefore, exempts conferences from the generally applicable anti-restrictive provisions of the Act, and seeks to ensure adequate safeguards to protect shippers through:

- requiring the filing of outwards conference agreements;
- requiring shipowners to give undertakings to hold meaningful negotiations with the designated shipper body, the Australian Shippers' Council (ASC);
- providing for disapproval of a conference agreement to be exercised by the Governor-General
 on a number of prescribed grounds, such as a failure on the part of the shipowner to comply
 with an undertaking, lack of due regard to the need for overseas shipping services to be
 efficient, economical and adequate, prevention or hindrance of an Australian flag operator
 from engaging efficiently in overseas cargo shipping to a reasonable extent.

Comparable provisions apply to individual shipowners who are not party to a conference agreement.

Review of Australia's Overseas Cargo Shipping Legislation

On 17 March 1977, the Minister for Transport announced the establishment of a study group to review Australia's overseas cargo shipping legislation.

The review covered the operation of Part X of the Trade Practices Act, possible future legislative arrangements and the role and long-term financing of the Australian Shippers' Council. The review report was tabled in Parliament in November 1977 and an Inter-Departmental Committee was established to report to the Government on the matter. The Government decided in May 1979 to introduce as early as practicable amending legislation to strengthen Part X of the Trade Practices Act, with the aim of providing more effective safeguards for shippers.

Maritime Industry Commission of Inquiry

For details see Year Book No. 61, pages 370-1.

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; overseas via ports in the same State; 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 has not yet been converted to metric.

Overseas shipping

The following table shows the number of vessels entered and cleared direct from and to overseas countries, and the aggregate net tonnage involved, for the years 1971-72 to 1976-77.

OVERSEAS SHIPPING(a): VESSELS ENTERED AND CLEARED

		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
Entered	 numbe	5,439	5,647	5,975	6,230	5,772	5,830
	'000 net ton	53,144	62,628	72,042	80,313	75,002	79,666
Cleared	 numbe	r 5,447	5,631	5,909	6,254	5,824	5,824
	'000 net ton	53,491	62,031	71,462	80,305	75,399	79,503

(a) Excludes vessels of 200 net tons and under.

Particulars of the total overseas movement of shipping for each year from 1950-51 are shown in the Statistical Summary of this Year Book.

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(a): VESSELS ENTERED AND CLEARED, STATES, 1976-77

		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	Aust.
Entered	number			1,138			157	204	5,830
Cleared	'000 net tons number '000 net tons	1,203	5,260 558 4,352	14,807 1,317 16,463	1,978 300 2,202	37,108 2,135 38,105	2,506 128 2,313	2,217 183 2,223	79,666 5,824 79,503

(a) Excludes vessels of 200 net tons and under.

The following table shows particulars of overseas shipping which entered Australian ports according to country of registration of vessels.

OVERSEAS SHIPPING: VESSELS ENTERED DIRECT, BY COUNTRY OF REGISTRATION, AUSTRALIA(a)
(*000 net tons)

Country of registration of vessels	1974-75	1975~76	1976-77	Country of registration of vessels	1974-75	1975-76	1976-77
Australia	. 398	512	1,514	Panama	3,189	3,358	4,138
China-excl. Taiwan Province .	. 752	813	870	Singapore, Republic of	991	1,229	1,282
-Taiwan Province only .	. 456	490	695	Sweden		1.053	875
Denmark	1,022	374	725	United Kingdom	12,263	9,938	8,823
Germany, Federal Republic of .	2,575	1,932	1,836	United States of America	860	623	620
Greece		4,156	4,186	U.S.S.R	795	1.369	1.114
Hong Kong	. 345	922	984	Other countries	4,480	4,311	4,039
India		1,034	2,285	All countries—			
Italy	. 978	722	629	In cargo	19,764	18,089	19,118
Japan	. 22,904	24,080	26,049	Proportion of total %		24.1	24.0
Liberia	. 11,876	12,129	13,795	In ballast	60,549	56,913	60,548
Netherlands	1,218	798	540	Proportion of total %	75.4	75.9	76.0
Norway	7,909	5,159	4,667	Grand Total	80,313	75,002	79,666

(a) Excludes vessels of 200 net tons and under.

Australian registered tonnage which entered Australian ports from overseas during the year 1976-77 represented 1.90 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 1976-77. Total interstate movements by coastal and overseas vessels are shown in Total interstate movements below.

INTERSTATE MOVEMENT: COASTAL VESSELS ENTERED INTERSTATE DIRECT 1976-77(a)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N. T.	Aust.
Number of vessels		,				,		

(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, continued their voyages from/to overseas countries via other Australian States.

INTERSTATE MOVEMENT: OVERSEAS VESSELS ENTERED AND CLEARED VIA OTHER AUSTRALIAN STATES, 1976-77(a)

		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	Aust.
Entered	number	1,205	1,321	697	486	430	351	45	4,535
	'000 net tons		9,149	4,936	2,994	3,939	1,535	401	32,220
Cleared	number	1,464	1,379	532	415	275	375	62	4,502
	'000 net tons	11,403	9,561	3,254	2,816	2,710	1,701	394	31,839

(a) Excludes vessels of 200 net tons and under.

Total interstate movements. 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 1976-77, together with the aggregate net tonnage. Total interstate movement includes details of vessels entered or cleared interstate direct, interstate via ports in the same State and overseas via other States.

INTERSTATE MOVEMENT: TOTAL VESSELS ENTERED AND CLEARED, STATES AND NORTHERN TERRITORY, 1976-77(a)

		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	Aust.
Entered	 number	1,952	2,562	1,149	922	628	1,520	116	8,849
	'000 net tons	15,137	15,680	7,909	5,379	6,378	5,118	620	56,220
Cleared	 number	2,200	2,649	964	800	492	1,513	138	8,756
	'000 net tons	16,936	16,479	6,048	4,803	5,191	5,065	640	55,162

(a) Excludes vessels of 200 net tons and under.

Australian trading vessels

The following table shows particulars of all Australian trading vessels of 150 gross tons or more engaged in the regular overseas, interstate or intrastate services at 30 June 1979.

AUSTRALIAN TRADING VESSELS OF 150 GROSS TONS OR MORE 30 JUNE 1979

(Source: Department of Transport)

Vessels	Number	Deadweight tonnes	Gross tons
Interstate vessels—			
Australian owned and registered	56	1,171,872	774,042
Overseas owned, Australian registered, engaged in Australian coastal trade	2	49,657	31,584
Overseas owned and registered on charter, engaged in Australian coastal trade	10	678,846	368,551
Australian owned, overseas registered	2	8,801	7,199
Total interstate fleet	70	1,909,176	1,181,376
Intrastate vessels	22	292,623	179,425
Total coastal trading vessels	92	2,201,799	1,360,801
Overseas trading vessels—			
Australian registered	15	766,430	480,817
Overseas registered	5	143,031	89,986
Total overseas trading vessels	20	909,461	570,803
Total Australian trading vessels	112	3,111,260	1,931,604

Harbour boards and trusts

For detailed information see the individual State Year Books.

Shipping at principal ports

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(a)

		1974-	75	1975-	76	1976-	77
Port of entry		Num- ber	Net tons	Num- ber	Net tons	Num- ber	Net tons
	 _		'000		'000		'000
New South Wales—						10	
Sydney	 •	,	16,481		15,584	- ,	16,125
Botany Bay	 ٠	366	3,286	288	3,501	279	3,891
Newcastle		1,377	9,093	934	8,172	869	8,512
Port Kembla		804	7,401	734	7,473	693	7,151
Victoria-							
Melbourne		2,608	13,059	2,369	12,245	,	13,410
Geelong		420	2,936	371	2,794	337	2,741
Westernport		. 386	4,720	423	5,089	435	5,437
Queensland-							
Brisbane		1,246	8,573	1,219	8,519	1,229	8,720
Bundaberg		90	467	83	557	97	658
Cairns		176	696	149	748	147	767
Gladstone		429	7,005	388	6,206	404	6,675
Hay Point		159	4,459	150	4,416	162	5,292
Mackay		225	1.056	245	1,124	252	1,144
Rockhampton		80	299	97	354	67	244
Townsville		328	1,700	363	1.909	353	2.122
Weipa	 -	285	5,337	232	4,277	240	4,576
South Australia—	 •	200	5,557	232	1,2//	2.0	.,
Adelaide		1,108	4,087	1,140	4,053	942	3,628
Port Lincoln	 •	1,100	809	140	667	118	525
Port Pirie		146	863	157	976	133	831
Port Stanyac	 •	68	1,238	97	1,605	96	1,639
Thevenard	 •	100	430	66	295	63	278
Whyalla		311	2,369	283	2.060	204	1.558
Western Australia	 •		2,309	203	2,000	204	1,556
Fremantle(b)		1 245	10.600	1 210	10 754	1 212	11,007
			10,699		10,754	1,313	779
Albany	 •	. 127 . 154	855 937	125 111	743 799	171	1.637
Bunbury	 •						975
Geraldton		. 109	811	144	883	141	
Yampi Sound	 •	. 130	1,577	117	1,130	102	954
Port Hedland	 •		15,749		13,066		12,146
Dampier	 		12,487		12,591		13,218
Port Walcott	 ٠	. 173	4,716	171	4,538	143	5,053
Tasmania—		_,					
Hobart		505	1,594	440	1,546	383	1,333
Burnie		. 344	,	366	1,569	366	1,688
Devonport		422	1,247	361	1,144	405	1,312
Launceston		413	2,314	386	2,211	421	2,651
Port Latta		. 40	716	32	692	38	734
Northern Territory—							
Darwin		. 134	670	148	678	135	623
Groote Island		. 96	700	106	770	96	731
Gove		129	1.852	97	1,491	106	1,608

(a) Excludes vessels of 200 net tons and under. (b) Includes Kwinana.

TRANSPORT AND COMMUNICATION

Shipping cargo

Overseas and interstate cargo

The following table shows a summary of overseas and interstate cargo discharged and loaded during the past six years.

CARGO DISCHARGED AND LOADED: AUSTRALIA ('000)

	Overseas (cargo			Interstate	_		
	Discharged Loaded				Discharge	ed	Loaded	
Year	Tonnes	Cubic metres	Tonnes	Cubic metres	Tonnes	Cubic metres	Tonnes	Cubic metres
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	3,199	28,454	3,143
1975-76 .	. 19,718	7,170	156,133	2,488	28,371	2,978	28,241	2,937
1976-77 .	20,554	7,775	164,899	2,219	28,762	2,179	28,477	1,999

The following table shows details of container and non-container cargo discharged and loaded at Australian ports during 1976-77.

OVERSEAS CONTAINER AND NON-CONTAINER CARGO DISCHARGED AND LOADED BY PORT, 1976-77 ('000)

	Discharge	ed			Loaded			
	Container		Non-conto	ainer	Container		Non-cont	ainer
Port	Tonnes	Cubic metres	Tonnes	Cubic metres	Tonnes	Cubic metres	Tonnes	Cubic metres
New South Wales-								
Sydney Newcastle	933 7	1,380 19	1,640 930	987 5	812 11	512 5	4,875 10,622	184 1
Total	940	1,399	2,570	992	823	517	15,497	185
Victoria— Melbourne Geelong	622	2,481	1,066 1,137	1,213 1	1,208	493 —	791 1,576	219 3
Total	622	2,481	2,203	1,214	1,208	493	2,367	222
Brisbane	78	308	840	431	363	42	1,724	82
Gladstone Weipa	_	_	716 59	_	_	_	8,067 5,275	2
Total South Australia—	78	308	1,615	431	363	42	15,066	84
Adelaide	21	54	437	363	51	56	457	251
Total Western Australia—	21	54	437	363	51	56	457	251
Fremantle	35	198	4,753	252	164	44	5,838	95
Dampier	_	-	257	_	_	-	36,870	_
Port Hedland	_	-	71	2	-	-	27,441	_
Total Tasmania—	35	198	5,081	254	164	44	70,149	95
Hobart	2	_	120 100	12 8	6	_	143 1,603	- 8
Total	2	_	220	20	6	_	1,746	8
Other Ports	12	_	6,719	61	61	13	56,941	210
Total all Ports	1,710	4,440	18,845	3,335	2,676	1,165	162,223	1,055

The following table shows details of overseas and interstate cargo discharged and loaded at principal Australian ports during 1976-77.

CARGO DISCHARGED AND LOADED AT PRINCIPAL PORTS, 1976-77 ('000)

	Overseas o	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	2,572	2,367	5,687	696	2,052	148	152	202
Botany Bay	1,787	_	168	-	3,979	_	177	_
Newcastle	937	24	10,633	6	3,392	_	532	_
Port Kembla	492	2	6,474	_	6,587	_	1,564	_
Other	11	_	756	_	46	_	13	_
Total New South Wales	5,799	2,393	23,718	701	16,055 •	148	2,437	203
Victoria—	1.400	2 (04	1.000	7.0	2 440	202	2.002	190
Melbourne	1,688	3,694	1,999	712	2,448	202	2,002	190
Geelong	1,137	2	1,576	3	421	_	1,106	-
Portland	163	l	243	_	19	_	11 9,242	_
Westernport	132	_	1,421		413			
Total Victoria	3,119	3,696	5,239	715	3,301	202	12,361	190
Brisbane	918	740	2,087	123	3,385	3	98	24
Cairns	39	_	453	1	13	4	13	2
Gladstone	716	-	8,067	2	91	_	565	_
Hay Point	_	_	12,489	_		_	155	_
Mackay	62	. !	642	-	52	-	321	_
Townsville	446	33	1,345	6	139	_	211	_
Weipa	59	_	5,275		_	_	55	_
Other	2	-	1,309	_	58	_	244	_
Total Queensland	2,242	774	31,669	133	3,737	7	1,662	26
South Australia – Port Adelaide	459	417	508	307	681	5	297	3
	439	417	147	307	001	_	401	_
Port Lincoln	65	_	447	-	43	_	3	_
Port Pirie	5	_	561	_	223	_	160	_
Port Stanvac	1.684	_	109	_	505	_	482	_
Whyalla	109	_	1,318	_	1.119		1,343	_
Other	23	_	428	_			503	_
Total South Australia	2,344	417	3,519	307	2,572	5	3,190	3
Western Australia –	2,344	417	3,319	307	2,372	3	3,190	3
Fremantle	4,788	450	6,002	139	1.209	8	1.116	35
Albany	78		741	42	21	_		-
Bunbury	130	_	1,964	53	-	_	96	_
Dampier	257	_	36,870		_	_	_	_
Geraldton	17	_	920	49	_	_	_	_
Port Hedland	71	2	27,441	_	2	ì	5,816	_
Port Walcott	367	_	13,521	14	_	_	_	_
Yampi Sound	2	_	2,685	_	[1	_	69	_
Other	98	2	2,012	47	36	_	215	-
Total Western Australia	5,810	455	92,157	344	1,279	9	7,312	35
Tasmania-								
Hobart	123	12	149	-	661	230	439	198
Burnie	63	3	168		230	290	363	296
Devonport	16	-	34	11	155	628	221	600
Launceston	100 19	8	1,603	8	714 16	538	151 10	371
	19	_	2,112 298	_	16 l	58	8	60
Other	339	23	4,363	- 18	1,777	1,743	1,192	1,525
Northern Territory—		-3	,,,,,,		•,,	.,		-,-20
Darwin	305	18	6	_	21	34	9	2
Groote Island	19	_	1,245	_	6	13	305	3
Gove	578	-	2,983	_	14	17	8	12
Total Northern Territory	901	18	4.234	_	41	64	322	17
Australia	20,554	7,775	164,899	2,219	28,762	2,179	28,477	1,999
Austrana	40,334	1,113	104,877	4,417	40,/04	4,177	20,7//	1,777

Overseas cargo according to major trade areas and type of service

The following table shows details 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).

OVERSEAS CARGO LOADED AND DISCHARGED IN AUSTRALIA: MAJOR TRADE AREAS BY TYPE OF SERVICE

('000')

	Liners(a)		Tramps, bulks tankers	hips,	All vessels	
Major trade areas	Tonnes	Cubic metres	Tonnes	Cubic metres	Tonnes	Cubic metres
1976-77-						
Overseas cargo loaded—						
North America and Hawaii	491	195	5,859	ì	6,350	196
South America	56	26	506	_	562	26
Europe (including U.S.S.R.) .	1,102	445	29,902	32	31,004	479
Africa	118	44	1,609	21	1,727	65
Asia—					·	
Eastern Asia	1,340	283	114,455	13	115,794	297
Other Asia	854	394	6,217	398	7,072	793
Total Asia	2,194	677	120,671	412	122,866	1,089
Papua New Guinea, New	·				·	
Zealand and Pacific Islands .	701	304	1,672	46	2,373	350
Indian Ocean Islands and						
Antarctic Area	1	_	16	15	17	15
Overseas cargo discharged—						
North America and Hawaii	628	993	1,708	487	2,336	1,480
South America	15	18	73	_	87	18
Europe (including U.S.S.R.)	564	1.944	799	175	1,362	2,120
Africa	60	51	123	1	183	52
Asia-						
Eastern Asia	481	1.842	2,185	1,324	2,666	3,166
Other Asia	254	654	11.612	76	11,866	730
Total Asia	735	2,496	13,797	1,400	14,531	3,896
Papua New Guinea, New		2,	,,,,,	*,	* -,	-,
Zealand and Pacific Islands .	456	147	1,125	52	1,581	199
Indian Ocean Islands and			-,		-,	
Antarctic Area	_	_	470	9	470	9
			· · ·			
Total loaded~	4 (42	2.502	140.224	422	164.066	2.026
1974-75	4,643	2,503	160,224	423	164,866	2,926
1975–76	4,766	1,989	151,366	499	156,133	2,488
1976-77	4,663	1,691	160,236	528	164,899	2,219
Total discharged -						
1974–75	2,229	5,679	19,663	2,350	21,893	8,029
1975-76	2,407	5,459	17,311	1,711	19,718	7,170
1976-77	2,458	5,651	18,097	2,125	20,554	7,775

(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: ${\tt AUSTRALIA}$

('000)

	1974-75		1975-76		1976-77	
Country of registration of vessels	Tonnes	Cubic metres	Tonnes	Cubic metres	Tonnes	Cubic
Australia	367	503	715	655	2,427	763
Belgium-Luxembourg	578	-	592	-	969	ì
Canada	2,565	80	1,244	-	1,047	-
China-excl. Taiwan Province	1,653	-	1,860	-	1,912	-
-Taiwan Province only	812	106	992	57	1,256	48
Denmark	2,382	221	704	156	1,517	206
Germany, Federal Republic of	5,465	619	3,342	540	3,718	756
Greece	9,780	132	9,598	101	9,830	187
Hong Kong	618	41	1,656	140	1,850	163
India	3,590	74	2,417	73	5,060	62
Japan	64,576·	1,830	67,783	1,571	74,506	1,544
Korea, Republic of	367	18	714	7	1,077	6
Liberia	28,018	288	29,042	311	31,903	519
Norway	18,399	538	12,950	419	11,188	420
Panama	6,021	245	6,619	333	7,802	456
Singapore, Republic of	1,719	406	2,061	366	1,928	510
Sweden	3,121	465	1,982	580	1,694	462
United Kingdom	23,845	2,995	19,452	2,593	16,272	2,481
U.S.S.R	1,031	126	1,988	189	1,305	178
Other	11,862	2,259	10,140	1,567	8,196	1,232
Grand total	186,769	10,945	175,851	9,658	185,453	9,994

Vessels registered in Australia

The following table shows the number and gross tonnage of trading vessels of 150 tons and over registered in Australia at 30 June 1979, 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, 30 JUNE 1979(a)

(Source: Department of Transport)

	Overseas and interstate vessels		Intrastate vessels		Built in Australian yards		Built overseas		Tota	ı
Year of construction	No.	Gross tons	No.	Gross tons	No.	Gross tons	No.	Gross tons	No.	Gross tons
1974 and earlier	44	553,744	17	175,379	43	549,435	18	179,688	61	729,123
1975	6	81,544	2	570	5	32,771	3	49,343	8	82,114
1976	5	167,700	_	~	3	28,267	2	139,433	5	167,700
1977	7	244,028	1	2,851	3	46,991	5	199,888	8	246,879
1978	7	141,665	_		1	25,849	6	115.816	7	141,665
1979	4	97,762	-	_	_		4	97,762	4	97,762
Total registered in										
Australia	73	1,286,443	20	178,800	55	683,313	38	781,930	93	1,465,243

(a) Excludes vessels of 150 net tons and under.

Miscellaneous

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.

RAILWAYS

Government railways

Government railways in Australia operate in all States and Territories and provide an important means of transportation. In 1976–77 a total of 109.9 million tonnes of freight was carried, an increase of 128.0 per cent over the 48.2 million tonnes carried in 1956–57. However, in the same twenty-year period, the number of passengers carried (mostly within the suburban areas of Sydney and Melbourne) declined by 33.5 per cent from 499 million in 1956–57 to 332 million in 1976–77 (excluding Perth metropolitan passenger journeys). The number of train-kilometres run during 1976–77 (151 million) was a decrease of 1.3 per cent since 1956–57 (153 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 1977 there were 1,480 throughout Australia. Diesel-electric locomotives during 1976–77 hauled 98 million train-kilometres, while electric and other locomotives hauled 5 million train-kilometres.

Data required to compile government railway statistics at the national level for the year ended 30 June 1978 were not available in time (November 1979) to be included in this issue of the Year Book. This delay in the receipt of data was due mainly to the Australian National Railway's (ANR) assuming full responsibility for the operations of the non-metropolitan railways in South Australia and the Tasmanian railway system on 1 March 1978. This necessitated changes to previously used accounting procedures. As a result, the ANR were not able to provide, within the specified timetable, 1977–78 statistical data to compile national railway statistics.

It is expected that details of the operations of all government railways during 1977-78 will be available for inclusion in the next issue of the publication, Rail, Bus and Air Transport, Australia (9201.0).

Railway development

Details outlining railway development in Australia are given in Year Book No. 61, page 380. The following table sets out the route-kilometres of government railways in each State and Territory from 1972 to 1977. Details prior to 1972 can be found in Year Book No. 61, page 381.

GOVERNMENT RAILWAYS: ROUTE-KILOMETRES OPEN, 1972 TO 1977 (Kilometres)

30 June	е—		N. S. W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
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
1976			10.130	6,325	9,844	5.915	6.893	849	789	8	40,753
1977			10,130	6,251	9,796	5,911	6,895	864	278	8	40,133

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 1977 according to gauge.

GOVERNMENT RAILWAYS: ROUTE-KILOMETRES OPEN, BY GAUGE, 30 JUNE 1977 (Kilometres)

Gauge	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
1600 mm	(a)328	(b)5,912		2,533					8,773
1435 mm		325	111	(d)1,824	(e)2,108			(1)8	14,178
1067 mm			9,685	(g)1,554		864	278	٠	17,168
762 mm		14	·						14
610mm									
Total	10,130	6,251	9,796	5,911	6,895	864	278	8	40,133
Per 1,000 of population Per 1,000 square kilo-	2.05	1.65	4.58	4.63	5.76	2.10	2.64	0.04	2.85
metre	12.65	27.46	5.67	6.01	2.73	12.74	0.21	3.33	5.23

(a) Portion of Victorian System. (b) Excludes 325 kilometres of 1600 mm gauge line which almost parallels the 1435 mm gauge line between Melbourne and the New South Wales border. (c) Includes 47 kilometres of 1435 mm gauge line from Broken Hill to Cockburn. (d) Comprises 1,123 kilometres of Trans-Australian and 350 kilometres of the Central Australia Railway Systems, and includes 351 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 141 kilometres of 1435 mm/1067 mm dual gauge line which is included in the 1435 mm gauge line.

Government railway systems

Prior to 1 July 1975 there were six separate State Government railway systems and the Commonwealth Railways system. In 1975, however, Commonwealth and State Government legislation was enacted for the transfer to the Commonwealth Government of the Tasmanian Government Railways and the non-metropolitan South Australian railways. These transfers took effect from 1 July 1975 and the Australian National Railways Commission came into existence on that date to control the two transferred systems and the former Commonwealth Railways. The agreements provided for an 'interim period' during which the States retained responsibility for administration, maintenance and operation of the railways, but subject to directions from the Australian National Railways Commission (ANRC).

Essentially, the 'interim period' allowed time for negotiations to determine the terms and conditions of service to apply to State employees on transfer to the ANRC. On 1 March 1978, the ANRC assumed full responsibility for the transferred systems. 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 1977 is shown in the following table.

GOVERNMENT RAILWAYS: ROUTE-KILOMETRES OPEN, BY GAUGE AND SYSTEM 30 JUNE 1977 (Kilometres)

	Gauge					
System	1600 mm	1435 mm	1067 mm	762 mm	610 mm(e)	Total
New South Wales		(a)9,755				9,755
Victoria	(b)6,240	325		14		6,579
Queensland		(c)111	9,685			9,796
South Australia	2,533	398	963			3,894
Western Australia		1,378	(d)4,787			6,165
Tasmania			864			864
National		2,211	869			3,080
Australia	8,773	14,178	17,168	. 14		40,133

(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) Operated by the Public Transport Commission of New South Wales which is recouped for the cost of the operation. (d) Excludes 141 kilometres of 1435 mm/1067 mm dual guage line which is included in the 1435 mm gauge line. (e) Innisfail and Mourilyan Tramways sold to private enterprise in May 1977.

The six government owned railway systems are operated by the Public Transport Commission of New South Wales (PTC), Queensland Government Railways (QR), Victorian Railways (VR), Western Australian Government Railways (WAGR), the State Transport Authority of South Australia (STA), and Australian National Railways (ANR).

The PTC (1435 mm gauge) operates lines radiating southwest and west from Sydney, northwest from Newcastle, and north from Sydney to Brisbane. QR (1067 mm gauge) operates a coastal line from Brisbane to Cairns, with long branches inland from the major ports. VR (1600 mm gauge, with the 1435 mm gauge Albury to Melbourne line) operates a network throughout Victoria and extending into New South Wales. WAGR (1067 mm gauge) operates in south-western West Australia, and also operates standard gauge (1435 mm) from Perth to Kalgoorlie, Esperance and Leonora. The STA (1600 mm gauge) operates railways in the Adelaide metropolitan area only. ANR operates the non-metropolitan railways in South Australia (1600 mm and 1067 mm gauge), including the isolated Eyre Peninsula system (1067 mm gauge), the Tasmanian main line from Hobart to Launceston, with its branches (1067 mm gauge) and the railways (1435 mm gauge) from Kalgoorlie to Broken Hill, Queanbeyan to Canberra, Port Augusta to Marree, and (1067 mm gauge) Marree to Alice Springs. The Darwin to Larrimah line (1067 mm gauge), remains open, but no services have been operated since 1 July 1976.

See also details in the annual publication Rail, Bus and Air Transport, Australia (9201.0), and Year Book No. 58, page 348.

Developments in standardisation

The Commonwealth Government has enacted legislation for the construction of a standard gauge connection between Adelaide and the Trans-Australian Railway. Work on this project has been deferred. When the 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 reliable, all-weather standard gauge railway between Tarcoola, on the Trans-Australian Railway, and Alice Springs to replace the existing flood-prone narrow gauge section of the Central Australia Railway between Marree and Alice Springs. The line is expected to be completed by the end of 1980.

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, 1976-77

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	National	Aust.
Train-kilometres							_	
Suburban passenger .	20,489	14,423	3,320	3,957	2,154			44,342
Country passenger .	9,950	7,654	4,033	2,009	1,207	237	1,284	26,374
Goods(b)	26,601	11,412	22,853	4,777	9,485	1,430	3,850	80,407
Total	57,039	33,489	30,206	10,742	12,846	1,667	5,134	151,125
Passenger journeys ('000)(c)—								
Suburban	181,115	98,252	29,296	12,230	n.a.	16		n.a.
Country(d)	3,306	4,402	1,758	636	248	124	187	10,659
Total	184,421	102,654	31,054	12,866	n.a.	140	(e)187	n.a.
Passenger-kilometres								
Suburban	n.a.	1,601,885	n.a.	n.a.	n.a.	129		n.a.
Country	n.a.	627,125	n.a.	150,904	108,470	15,484	n.a.	n.a.
Total	n.a.	2,229,010	n.a.	n.a.	n.a.	15,613	n.a.	n.a.
Freight— Tonnes carried								
('000)(d) Net tonne-kilometres	33,777	10,971	34,237	6,402	19,003	1,644	3,909	109,943
(million)(g)	9,320.2	3,042.2	10,286.6	1,834.0	4,532.5	247.5	2,732.4	31,995.4

⁽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 1976-77 these numbered 4.583. (f) One passenger travelling one kilometre. (g) One tonne carried one kilometre.

Rolling stock

GOVERNMENT RAILWAYS: ROLLING STOCK INCLUDED IN CAPITAL ACCOUNT (Number)

	Locomotiv	es			-		
System and date	Diesel- electric	Electric	Other(a)	Total	Coaching stock(b)	Goods stock	Service stock
30 June 1977					•		
New South Wales	470	39	31	540	2,675	14,933	1,614
Victoria	258	35	99	392	2,582	16,841	1,034
Queensland	429	_	86	515	1,158	20,899	2,253
South Australia	151	-	4	155	393	7,035	542
Western Australia	184	_	21	205	372	10,747	446
Tasmania	50	_	21	71	55	1,925	169
National	104	_	_	104	142	3,305	545
Australia	1,646	74	262	1,982	(c)7,615	(c)75,694	(c)6,604
30 June-							
1976	1,590	75	326	1.991	7,592	78,405	7,256
1975	1,573	75	332	1,980	7,624	78,810	7,614
1974	1,563	76	372	2,011	7,870	79,086	7,723
1973	1,539	76	378	1,993	7,982	79,913	7,800
1972	1,489	76	. 435	2,000	8,178	81,135	8,033

⁽a) Includes non-passenger-carrying diesel power vans and steam locomotives. (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 1976-77 ('000 kilometres)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	National	Aust.
Type of service—								
Passenger-suburban .	20,489	14,423	3320	3957	2154			44,342
Passenger-country	9,950	7,654	4,033	2,009	1,207	237	1,284	26,374
Goods(a)	26,601	11,412	22,853	4,777	9,485	1,430	3,850	80,407
Total	57,039	33,489	30,206	10,742	12,846	1,667	5,134	151,125
Type of motive power— Hauled by diesel-electric								
locomotives	31,783	15,701	27,443	5,900	10,319	1,662	5,125	97,932
Hauled by electric and								
other locomotives(b)	3,146	1,475	443	6	1	-	-	5,070
Powered coaching stock	22,111	16,314	2,320	4,836	2,526	5	9	48,121
Total	57,039	33,489	30,206	10,742	12,846	1,667	5,134	151,125

⁽a) Includes mixed train-kilometres. (b) Includes steam locomotives.

Total train-kilometres

TRAIN-KILOMETRES ('000 kilometres)

Year	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	National	Aust.
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
1975-76	 54,943	33,818	30.813	10,304	12.856	1,748	5,595	150,078
1976-77	 57,039	33,489	30,206	10,742	12,846	1,667	5,134	151,125

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.	National	Aust.
1976-77-								
Grain	5,217	2,456	1,657	863	3,454	8	_	13,655
Other agricultural								
produce	925	435	2,423	100	236	7	23	4,150
Coal, coke and								
briquettes	16,126	837	21,769	6	1,179	159	1,942	42,017
Other minerals(b) .	2,999	512	3,939	1,716	10,247	22	80	19,514
Iron and steel	1,867	675	· _	412	· _	7	_	2,961
Fertilisers	291	593	173	298	525	62	3	1,945
Cement	444	903	161	67	92	273	49	1,989
Timber	104	247	97	55	271	305	23	1,102
Containers	2,662	669	834	721	-	108	_	4,994
Livestock	181	310	761	298	71	2	123	1,747
All other commod-								
ities	2,959	3,337	2,422	1,866	2,928	692	1,666	15,871
Total	33,777	10,971	34,237	6,402	19,003	1,644	3,909	109,943
1975-76	31,234	10,803	33,118	6,139	17,647	1,610	3,804	104,355
1974-75	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

⁽a) Inter-system traffic is included in the total for each system (including each National 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.	National	Aust.
1976-77—						-		
Grain	2,049.9	731.4	(a)	148.5	901.3	1.5	_	(a)
Other agricultural								
produce	494.3	135.8	(a)	27.1	96.5	1.6	32.6	(a)
Coal, coke and								
briquettes	1,380.6	138.8	(a)	3.0	179.4	31.0	495.7	(a)
Other minerals(b) .	623.1	100.3	(a)	366.3	1,773.7	3.7	20.2	(a)
Iron and steel	1,248.4	213.8	(a)	173.2	· -	1.2	_	(a)
Fertilisers	173.0	154.3	(a)	92.9	194.2	19.0	3.9	(a)
Cement	149.5	113.5	(a)	23.9	43.6	23.1	19.0	(a)
Timber	91.6	79.5	(a)	17.8	91.3	26.0	32.6	(a)
Containers	1,385.6	282.0	(a)	258.3	-	25.5	-	(a)
Livestock	100.3	94.8	413.0	73.7	23.4	_	62.6	767.8
All other commodi-								
ties	1,624.0	997.8	9,873.6	649.3	1,229.0	114.9	2,065.7	16,554.3
Total	9,320.2	3,042.2	10,286.6	1,834.0	4,532.5	247.5	2,732.4	31,995.4
1975-76	8,566.9	3.071.4	10,101.2	1,686.6	4,542.4	231.8	2,609.0	30,809.3
1974-75	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

⁽a) Not available separately, included with 'All other commodities'. (b) Includes sand and gravel.

Finance

GOVERNMENT RAILWAYS: GROSS EARNINGS(a), SYSTEMS, 1976-77 (\$'000)

	N.S.W.(b)	Vic.	Qld	S.A.	W.A.	Tas.	National	Aust.
Coaching-							_	
Suburban passenger	52,677	38,151	6,607	3,207				n.a.
Country passenger .	19,513	14,182	5,962	3,138	3,451	n.a.	6,461	n.a.
Other	9,699	9,265	4,367	1,574	2,834	n.a.	820	n.a.
Total coaching	81,889	61,598	16,936	7,919	6,285	516	7,281	182,423
Freight (goods and livestock)-								
Grain	(c)	20,165	17,435	5,133	26,394	58	-	n.a.
Other agricultural								
produce	(c)	4,267	14,358	678	4,382	77	440	n.a.
Coal, coke and								
briquettes	(c)	5,081	97,970	51	6,625	857	4,915	n.a.
Other minerals(d) .	(c)	2,458	29,406	8,169	29,378	179	336	n.a.
Iron and steel	(c)	4,404	-	2,639	_	96	-	n.a.
Fertilisers	(c)	3,311	3,219	1,398	4,194	619	47	n.a.
Cement	(c)	4,944	2,532	449	1,298	1,159	326	n.a.
Timber	(c)	2,857	1,752	364	3,100	920	403	n.a.
Containers	(c)	4,056	6,818	4,353	_	643	_	n.a.
Livestock	(c)	2,260	16,248	2,704	819	51	1,395	n.a.
All other commodi-	` ,		•				·	
ties	(c)	35,351	50,207	14,837	36,887	3,506	39,419	n.a.
Total freight .	244,746	89,157	239,945	40,775	113,077	8,164	47,282	783,146
Miscellaneous	25,240	12,757	5,679	5,591	17,960	100	8,028	75,355
Grand total .	351,875	163,512	262,561	54,284	137,323	8,780	62,590	1,040,925

⁽a) Excludes Government grants. (b) Includes State Co-ordination Tax Contribution. cludes sand and gravel.

GOVERNMENT RAILWAYS: WORKING EXPENSES, SYSTEMS, 1976-77 (\$'000)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.(a)	National	Aust.
Maintenance of way								
and works	84,903	(b)	82,803	(a)24,737	(a)30.868	6,448	12,722	242,481
Motive power(c)	182,445	(b)	109,632	(a)31,584	(a)32.618	7,978	18,502	382,759
Traffic	132,184	261,504	80,831	(a)30,114	51,968	5,830	12,469	574,900
Other charges	170,741	39,728	25,778	17,194	16,569	3,084	8,934	282,028
Total	570,272	301,232	299,044	(a)103,629	(a)132,024	23,340	52,628	1,482,169

⁽a) Includes provision of reserves for depreciation. of rolling stock.

⁽c) Not available separately.

⁽d) In-

⁽b) Not available separately; included with traffic. (c) Includes maintenance

TRANSPORT AND COMMUNICATION

GOVERNMENT RAILWAYS: GROSS EARNINGS, WORKING EXPENSES, AND NET EARNINGS, **SYSTEMS**

(\$'000)

Year				N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	National	Aust.
					!	GROSS EA	RNINGS				
1971-72	·			266,268	112,685	124,782	35,386	63,634	6,123	29,208	638,086
1972-73				254,070	111,833	137,745	35,085	63,600	6,835	31,241	640,408
1973-74				262,691	115,613	149,844	39,531	78,480	7,674	37,217	691,050
1974-75				291,373	129,942	183,687	47,950	106,844	8,266	41,367	809,429
1975-76				318,763	147,292	230,492	49,688	130,850	8,048	54,618	939,751
1976-77				351,875	163,512	262,561	54,284	137,323	8,780	62,590	1,040,925
					w	ORKING I	EXPENSES				
						-	(a)	(a)	(a)	(a)	
1971-72				263,484	138,722	119,743	46,521	63,748	10,391	31,540	674,149
1972-73				298,180	156,120	133,384	52,320	68,223	11,829	34,487	754,543
1973-74				349,897	188,599	162,101	60,747	81,916	15,598	44,423	903,281
1974-75				415,234	243,393	227,925	80,466	103,696	19,973	55,847	1,146,534
1975-76				472,188	271,940	265,662	91,352	118,607	22,087	64,279	1,306,115
1976-77		٠		570,272	301,232	299,044	103,629	132,024	23,340	52,628	1,482,169
					1	NET EARN	IINGS(b)				
1971-72				2,784	-26,034	5,038	-11,135	-115	-4.267	-2,333	-36,043
1972-73				-44,111	-44,287	4,361	-17,236	-4,622	-4,994	-3,247	-114,135
1973-74				-87,206	-72,986	-12,257	-21,216	-3,436	-7.924	-7.206	-212,231
1974-75				-123,861	-113,451	-44,238	-32,516	3,148	11,707	-14,479	-337,104
1975-76			Ċ	-153,425	-124,648	-35,170	-41,664	12,243	-14,039	-9,661	-366,364
1976-77			·	-218.397	-137,720	-36,483	-49,345	5.299	-14,560	9,962	-441,244

GOVERNMENT RAILWAYS: SURPLUS OR DEFICIT, SYSTEMS, 30 JUNE 1977 (\$'000)

	Net earnings –excess		nts and other o railways	earnings		Less othe	er expense.	s charged to	o railways		Slive
System	of gross earnings over working expenses	State Govern- ment grants	Road motor earnings	Other	Total	Interest and ex- change	Sinking fund	Road motor expenses (a)	Other	Total	Surplus (+) or deficit (-)
New South Wales .	218,397	(b)6,411	_	_	6,411	53,265	7,897	_	(c)1,479	62,641 -	274,627
Victoria	137,720	(d)74	92	_	166	_	-	522	-	522 —	138,077
Queensland	36,483		_	-	_	53,448	_	_	(e)1.111	54,559	-91,042
South Australia	49,345	_	401	-	401	1,323	_	659	186	2,168	-51,113
Western Australia .	. 5,299	_	988	_	988	14,885	_	2,495	(/)35	17,416	-11,129
Tasmania	14,560	_	_	20	20	_	_	_	-		-14,539
National	. 9,962	_	-	_	_	_	_	_	_	_	+9,962
Australia	441,224	6,485	1.481	20	7,986	122,921	7,897	3,676	2,811	137,306 -	-570,565

⁽a) Includes interest and exchange. (b) Grants to meet losses on country developmental lines, and the employer liability to the Government Railways Superannuation Account. (c) Loan management and loan flotation expenses. (d) Kerang-Koondrook tramway recoup from Treasury. (e) Demolished assets written off. (f) Australian currency revaluation adjustment.

⁽a) Includes provision of reserves for depreciation. (b) Excess of gross earnings over working expenses as shown in this table.

Employment, salaries and wages

GOVERNMENT RAILWAYS: AVERAGE NUMBER OF EMPLOYEES (EXCLUDING CONSTRUCTION STAFF) AND SALARIES AND WAGES PAID(a), 1976-77

	N.S. W.	Vic.(b)	Qld	S.A.	W.A.	Tas.	National	Aust.
Salaried staff	8,972	5,299	4,085	1,707	2,168	350	725	23,306
Wages staff	31,001	19,110	20,435	5,634	7,610	1,489	3,098	88,377
Total staff	39,973	24,409	24,520	7,341	9,778	1,839	3,823	111,683
Salaries and wages								
paid \$2000	404,610	233,137	238,206	77,722	91,419	16,343	36,259	1,097,697

(a) Excludes salaries and wages paid to road motor staff. (b) Includes construction staff.

Non-government railways

The Australian non-government railways covered in this section are those which operate outside industrial estates, harbour precincts, mines and quarries with a route distance exceeding two kilometres.

The figures in the following table have been compiled from information supplied to the Bureau of Transport Economics by the various railway operators. All operators provided details of tonnes consigned and most provided details of tonne-kilometres performed. In a few cases the tonne-kilometre figures have been estimated by the Bureau of Transport Economics using the advised average length of haul.

TRAFFIC TASK PERFORMED BY AUSTRALIAN NON-GOVERNMENT RAILWAYS 1972-73 TO 1977-78

Year _				on ore ilways	S tram	ugar ways	Oth non-governmen railwa)	nt.	Total non-government railways	Non-government as a percentage of total tonnes consigned/ tonne- kilometres performed
				TONN	ES CONS	GNE	(000°) Œ			Per cent
1972-73			 · · · · · · · ·	7,723	16	,060	16,99	0	100,773	55
1973-74			 8	4,867	16	442	19,97	0	121,279	58
1974-75			 9	5,666	17	,163	21,18	0	134,009	59
1975-76			 8	3,837	18	,844	17,84	7	120,528	56
1976-77			 8	6,622	20	,066	20,27	1	126,959	54
1977-78			 8	5,898	20	,268	17,85	9	124,025	n.y.a.
_				TONNE	-KILOME	TRE	S (million)			
1972-73]	9,501		259	27	2	20,032	43
1973-74			 2	5,890		264	33	6	26,490	48
1974-75			 2	9,559		275	34	1	30,175	50
1975-76			 2	5,748		302	29	8	26,348	46
1976-77			 2	6,646		322	36	9	27,337	46
1977-78			 2	7,723		325	32	4	28,372	n.y.a.

TRAM, BUS, AND FERRY SERVICES

Systems in operation

Trams and trolley-buses. At 30 June 1978 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 its replacement by buses in Perth, Western Australia, on 29 August 1969. Regular tram services ceased to operate in Ballarat on 19 September 1971 and in Bendigo on 16 April 1972. However services are operated in both cities, on an irregular basis, but generally at holiday periods, as a tourist attraction.

In many parts of Australia private lines used for special purposes in connection with the timber, mining, sugar, or other industries are often called tramvays, 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.

Buses. 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 Victorian Railways, Public Transport Commission of New South Wales and the Western Australian Government Railways. Particulars of bus services under the control of private operators for the States of New South Wales, Victoria, Queensland and South Australia are given in the annual publication Rail, Bus and Air Transport, Australia (9201.0) for years prior to 1976-77.

Ferries. 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 and on the Derwent River at Hobart; and the Brisbane River at Brisbane. 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 publication Rail, Bus and Air Transport, Australia (9201.0). There are no ferry passenger services in South Australia or Victoria.

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 SERVICES: GOVERNMENT AND MUNICIPAL STATES AND TERRITORIES, 1977-78

		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Route-kilometres at 30 June-										
Tram(a)	kilometres		217		11					228
Bus	**	1,046	258	722	868	8,413	461	85	796	12,649
Vehicle-kilometres-										
Tram	'000		24,185		770					24,955
Bus	,,	63,468	12,874	20,452	35,075	42.171	9,872	949	12,800	197,660
Rolling stock at 30 June-										
Tram	number		748		26					774
Bus	,,	1,738	305	576	817	923	300	31	360	5,050
Passenger journeys-										
Tram	'000		101,296		1,285					102,581
Bus	**	196,773	19,339	50,100	56,069	57,519	19,517	796	13.874	413.987
Gross revenue(b)-										
Tram and bus	\$.000	43,643	33,741	15,975	16,073	16,607	3.547	514	4,357	134,457
Working expenses(c)-										
Tram and bus	\$1000	104,946	53,947	22,435	33,280	31,271	9,844	928	10,630	267,281
Net revenue-										
Tram and bus	\$ '000	-61,303	-20,206	-6.460	-17,207	-14,664	-6.297	-414	-6,273	-132.824
Employees at 30 June-										
Tram and bus	number	6,781	4,708	1,473	(d)n.a.	2,208	625	112	706	n.a.
Accidents:-				.,	(- /·····	-1400				
Tram and bus(e)—										
Persons killed	number	7	9	_	2	£	2	_	í	22
Persons injured	,,	n.a.	636	294	243	476	36	_	42	(/)1,727

⁽a) Gauge 1435 mm throughout. (b) Excludes government grants. (c) Includes provision of reserves for depreciation, etc., where possible. (d) The State Transport Authority assumed responsibility for metropolitan transport services from 1 March 1978. As a result separate employment details for bus and tram (i.e. excluding rail) are no longer available. (e) Excludes accidents to employees. (f) Excludes New South Wales. Minus sign (-) denotes deficit.

TRAM AND BUS SERVICES: GOVERNMENT AND MUNICIPAL

	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
Route-kilometres at 30 June-						
Tram kilomet	res 228	227	228	228	228	228
Bus	" 10,890	11,780	11,859	11,217	12,142	12,649
Vehicle kilometres—						
Tram	00 25,119	24,555		24,945	24,940	24,955
Bus	" 172,866	179,702	188,062	190,131	192,003	197,660
Rolling stock at 30 June-						
Tram numb		734		765	765	774
Bus	" 4,442	4,761	4,914	4,995	4,897	5,050
Passenger journeys—						
	00 106,333	110,791		107,375	104,188	102,581
Bus	" 410,139	417,513	(a)413,844	403,058	404,228	413,987
Gross revenue(b)—						
Tram and bus \$'0	00 • 95,171	105,149	112,690	121,420	123,740	134,457
Working expenses(c)—						
Tram and bus \$'0	00 117,598	146,655	187,787	208,241	239,107	267,281
Net revenue—						
Tram and bus \$'0	00 –22,426	-41,506	-75,098	-86,821	-115,366	-132,824
Employees at 30 June-						
Tram and bus numl	er 17,256	17,549	17,829	17,846	18,276	n.a.
Accidents-						
Tram and bus(d)—					•	
Persons killed numb		10		22	25	22
Persons injured	" 2,732	2,587	(e)1,245	(e)1,535	(e)1,609	(e)1,727

(a) Excludes Northern Territory. (b) Excludes government grants. (c) Includes provision of reserve for depreciation, etc., where possible. (d) Excludes accidents to employees. (e) Excludes New South Wales. Minus sign (-) denotes deficit.

MOTOR VEHICLES

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.

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 1976 by the Australian Bureau of Statistics for the purpose of gathering information on the usage of motor vehicles. Previous surveys were conducted in 1963 and 1971. The owners of approximately 53,000 vehicles other than buses were approached for information relating to the usage of their vehicles over the twelve months ended 30 September 1976. 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' recollection of their usage of the selected vehicles 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) main type of operation; (v) fuel consumption; (vi) occupant-kilometres; and (vii) driver characteristics.

The following table shows, for Australia, total annual kilometres travelled for the twelve months ended 30 September 1976 classified by vehicle type 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 BY VEHICLE TYPE AND PURPOSE OF TRAVEL, TWELVE MONTHS ENDED 30 SEPTEMBER 1976 (FINAL)

	Laden busine		Unladen Total business business (a)		Paid to and fr work		Unpai and fro work		Privat	e	Total	,		
Type of vehicle	million kilo- metres	S.E. %	million kilo- metres	S.E.	million kilo- metres	S.E.	million kilo- metres	S.E.	million kilo- metres	S.E.	million kilo- metres	S.E.	million kilo- metres	S.E.
Cars and station wagons					15,584.3	3.8	2,434.5	6.4	16,196.7	2.7	44,304.0	1.4	78,531.0	1.2
Motor cycles					171.8	13.9	46.7	21.1	610.8	7.9	811.9	8.1	1,641.3	5.4
Utilities and panel vans	4,097.9	5.2	1,919.9	8.1	6,368.5	4.5	335.7	19,4	1,730.8	7.1	3,854.8	6.2	12.289.9	2.6
Rigid trucks	3,769.2	1.5	1,731.8	2.1	5,505.6	1.5	51.2	10.1	195.1	6.3	278.7	7.4	6.031.8	1.4
Articulated trucks	1,395.6	0.9	577.6	1.1	1,974.7	0.8	4.9	11.2	21.0	4.9	4.3	14.4	2,005.0	0.8
Other truck type vehicles					223.5	15.1	2.6	32.3	29.6	12.6	164.5	9.4	420.2	8.7
Total	9,262.7	2.4	4,229,3	3.8	29,828.5	2.2	2,875.6	5.9	18,783.9	2.4	49,418.2	1.4	100,919.2	1.0

⁽a) Includes the total kilometres travelled for business purposes of cars, station wagons, motor cycles and utilities and panel vans predominantly used for private purposes. The dissection of business travel into laden/unladen was not sought for these vehicles.

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 and 1962, and 30 September 1971 and 1976. At these census dates considerably greater information concerning the particulars shown in the tables following is available. Final detailed results of the 1976 census have been published in separate census publications for each State and Territory and for Australia.

MOTOR VEHICLE CENSUS: 30 SEPTEMBER 1976 (FINAL) ('000)

	Motor cars and			Trucks		Other truck			
State or Territory	station wagons	Utilities	Panel vans	Rigid	Articu- lated	1ype vehicles	Buses	Moior cycles	Total (a)
New South Wales	1,712.9	131.8	108.0	115.7	13.1	7.8	11.2	95.5	2,196.0
Victoria	1,456.2	104.5	47.0	117.8	9.8	4.9	7.3	51.9	1,799.4
Queensland	723.4	129.4	42.1	43.8	5.9	3.2	3.6	72.8	1,024.0
South Australia	509.2	41.4	19.6	36.3	5.2	4.1	3.2	31.8	650.7
Western Australia	442.6	55.5	34.2	43.8	3.4	3.8	3.3	28.5	615.2
Tasmania	158.7	17.0	8.3	10.4	1.2	1.1	1.7	6.5	204.8
Northern Territory	19.3	8.0	2.0	2.0	0.3	0.2	0.2	2.7	34.8
Australian Capital Territory .	79.9	4.6	4.7	2.5	0.1	0.1	0.9	3.7	96.6
Total	5,102.2	492.3	265.9	372.2	39.0	25.1	31.4	293.4	6,621.5

(a) Excludes tractors, plant and equipment, caravans and trailers.

MOTOR VEHICLES ON REGISTER, BY TYPE OF VEHICLE AUSTRALIA ('000)

Mot cycl	Total (excludes motor cyles)	Utilities, trucks, panel vans, other truck type vehicles and buses	Motor cars and station wagons	sic wa								30 June							
210	5,402.7	1,041.1	4,361.6	<u> </u>		_					_			973					
258	5,694.1	1,090.1	4,604.0											974					
277	5,998.7	1,140.2	4,858.5							Ċ				975					
293	6.287.8	1,215.0	5,072.8											976					
295	6,522.6	1,279.6	5,243.0											977					
292	6,822.1	1,359.9	5,462.2					Ċ						978					

MOTOR VEHICLES(a) ON REGISTER PER 1,000 OF POPULATION STATES AND TERRITORIES

30 Ju	ne				N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	<i>N.T.</i>	A.C.T.	Aust.
1973					389.7	408.3	396.1	428.1	432.9	429.6	321.0	421.8	403.8
1974					402.9	427.4	408.7	442.4	449.3	442.0	329.5	427.6	418.7
1975					419.8	447.2	413.1	467.1	470.7	461.8	334.5	433.7	435.6
1976					426.8	466.6	445.4	482.2	493.4	481.1	315.6	436.8	451.9
1977					435.1	470.1	463.9	498.7	523.7	494.9	328.0	456.3	463.4
1978					446.7	488.0	485.8	505.4	546.1	515.0	375.1	436.0	478.8

(a) Excludes motor cycles, tractors, plant and equipment, caravans and trailers.

Registrations of new motor vehicles

Particulars of registrations of new motor vehicles are shown by type of vehicle in monthly bulletins, and by type and make of vehicle in 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 July 1976. The principal difference between this classification and that which it replaces involves the categories utilities, panel vans, trucks and other truck type vehicles. The principle of accepting vehicle-type data as recorded by the registration authority has also been accepted. Consequently, figures shown from July 1976 are not strictly comparable with data for previous periods.

REGISTRATIONS OF NEW MOTOR VEHICLES, BY TYPE OF VEHICLE

					Trucks		Other truck		Total (excludes	
State or Territory and year	Motor cars	Station wagons	Utilities	Panel vans		Articulated	type vehicles	Buses	motor cycles)	Motor cycles
1978-79-										
New South Wales	136,497	29,698	11,774	13,057	12,446	1,693	659	1,006	206,830	13,706
Victoria	103,530	20,628	7,073	4,840	10,063	1,054	504	703	148,395	7,136
Queensland	56,329	12,695	13,474	5,248	2,834	733	161	438	91,912	8,126
South Australia	33,285	6,459	2,575	2,209	2,588	455	224	404	48,199	3,700
Western Australia	32,486	8,396	3,866	4,872	4,423	333	165	366	54,907	2,713
Tasmania	11,606	2,322	1,191	901	894	155	156	104	17,329	892
Northern Territory	1,531	617	1,146	325	213	78	3	32	3,945	431
Australian Capital Territory	7,075	1,496	482	500	317	94	21	100	10,085	562
Australia	382,339	82,311	41,581	31,952	33,778	4,595	1,893	3,153	581,602	37,266
1977-78	359,472	72,967	45,946	40,312	35.034	4,000	2,474	3,712	563,917	38,049
1976-77	365,624	81,478	(a)48,420 (a)39,532	(a)36,051	(a)4,752	(a)2,749	3,205	581,811	50,321
1975-76	380,713	73,924	43,500	38,296	39,574	4,139	474	3,743	584,363	60,017
1974-75	433,244	69,476	45,151	36,647	32,675	3,545	409	3,040	624,187	67,563
1973-74	407,983	57,007	41,848	29,352	29,878	3,753	398	2,465	572,684	85,249
1972-73	373,876	55,863	41,144	28,136	29,176	3,364	365	2,215	534,139	65,551

(a) Not directly comparable with previous figures.

Drivers' and riders' licences

At 30 June 1979, the numbers of licences in force to drive or ride motor vehicles were: New South Wales, 2,886,503; Victoria, 2,072,172; South Australia, 741,388; Western Australia, 675,033; Tasmania, 222,217; Northern Territory, 56,990; Australian Capital Territory, 129,498. Particulars are not available for Queensland.

ROAD TRAFFIC ACCIDENTS

Compulsory fitting and use of seat belts and protective helmets in Australia

Information on the compulsory fitting and use of seat belts and protective helmets in Australia is given in Year Book No. 61, page 395.

Accidents involving casualties, persons killed, persons injured

ROAD TRAFFIC ACCIDENTS INVOLVING CASUALTIES(a): NUMBER OF ACCIDENTS, PERSONS KILLED OR INJURED, 1978

		Persons killed	Persons injured	Per 100,000 mean popul			Per 10,000 motor vehicles registered(b)			
State or Territory	Number of accidents			Number of accidents	Persons killed	Persons injured	Number of accidents	Persons killed	Persons injured	
New South Wales	29,451	1,384	40,875	588	28	816	126	6	176	
Victoria	14,957	869	20,377	392	23	534	79	5	108	
Queensland	8,094	612	10,850	374	28	501	72	5	96	
South Australia	8,160	291	11,209	634	23	870	119	4	164	
Western Australia	7,224	345	9,346	591	28	765	105	5	135	
Tasmania	1,641	106	2,274	397	26	550	76	5	105	
Northern Territory	716	68	980	638	61	873	161	15	220	
Australian Capital Territory	802	30	1,051	372	14	487	79	3	103	
Australia	71,045	3,705	96,962	499	26	681	100	5	137	

⁽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	рори-	Per 10,000 motor vehicles regis- tered(b)	
Accidents	involvin	g	-										
	alties-												
1973			29,308	14,485	8,643	9,267	5,404	1,479	711	854	70,151	524	125
1974			29,853	12,542	8,086	9,469	4,742	1,393	575	813	67,473	496	113
1975			28,217	12,514	8,241	8,793	5,104	1,496	554	869	65,788	478	105
1976		,	27,393	12,680	7,814	8,090	5,287	1,603	582	833	64,282	462	98
1977			27,943	14,659	7,696	7,922	6,224	1,603	634	868	67,549	480	99
1978			29,451	14,957	8,094	8,160	7,224	1,641	716	802	71,045	499	100
Persons k			,		,	,	,				•		
1973			1,230	935	638	329	358	105	` 55	29	3,679	27	7
1974			1,275	806	589	382	334	111	44	31	3,572	26	6
1975			1,288	910	635	339	304	122	64	32	3,694	27	6
1976			1,264	938	569	307	308	108	51	38	3,583	26	5
1977			1,268	954	572	306	290	112	47	29	3,578	25	5
1978			1,384	869	612	291	345	106	68	30	3,705	26	5
Persons in	njured-												
1973	´		39,294	20,011	11,660	12,625	7,377	2,103	1,012	1,122	95,204	712	169
1974			40,429	17,539	10,627	12,725	6,277	1,911	788	1,042	91,338	672	153
1975			38,141	17,437	11,019	12,020	6,832	2,137	789	1,124	89,499	650	142
1976			37,327	17,653	10,405	11,082	7,059	2,323	814	1,145	87,808	631	134
1977			38,407	19,672	10,002	10,781	8,353	2,343	882	1,176	91,616	651	134
1978			40,875	20,377	10,850	11,209	9,346	2,274	980	1,051	96,962	681	137

⁽a) See footnote (a) to previous table.

⁽b) See footnote (b) to previous table.

ROADS*

An article dealing with the development of roads in Australia is given in Year Book, No. 60, pages 385-93.

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 1978. 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: availability 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), 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 1978
(Kilometres)

Class of road	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Total
State Highways	(a)10,598 7,103 18,400	7,305 14,555	$ \begin{bmatrix} 10,354 \\ 152 \\ 8,558 \end{bmatrix} $	13,552	${ \begin{cases} 7,722 \\ 7,583 \end{cases}}$	${1,960 \brace 1,139}$	108,982
Total main roads .	36,102	21,860	19,064	13,552	15,305	3,099	108,982
Secondary roads Development roads Other roads	 (b)287 3,486 426 2,480	- 797 (<i>d</i>)1,031	(c)13,029 8,028 -	- - -	8,734 - - -	290 157 150	22,340 11,671 1,373 3,511
Total other roads . Grand total	6,679 42,781	1,828 23,688	21,057 40,121	13,552	8,734 24,039	597 3,696	38,895 147,877

(a) Includes 127 kilometres of freeways and tollways.

(b) Metropolitan only.

(c) Includes mining access roads, farmers' roads and

Total roads. The following table represents an attempt to classify all the roads open for general 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 1978
(Kilometres)

Surface of roads	N.S.W.(a)	Vic.	Qld	S.A.	W.A.(b)	Tas.	N. T.	A.C.T.	Total(a)
Bitumen or concrete Gravel, crushed stone or	70,277	58,691	44,121	18,088	32,593	7,381	4,975	1,788	237,914
other improved sur- face	66,616	45,353	28,981	21,192	32,367	14.097	1,872	352	210,830
Formed only	39,188	27,380	60,193	24,225	46,276	. 749	$\int 6,143$	42}	368,088
Cleared only Total	13,092 189,173	25,277 156,701	29,050 162,345	37,024 100,529	52,077 J 163,313	22,227	\ 7,372 20.362	ز- 2.182	816,832

⁽a) Excludes 15,397 kilometres of road dedicated but not trafficable. (b) Figures as at 30 June 1977. Figures as at 30 June 1978 are not yet available.

Expenditure on roads and bridges

Primary responsibility for the construction and maintenance of roads and bridges rests with State and local authorities. For detailed information see the individual State Year Books.

^{*} Includes bridges.

National Association of Australian State Road Authorities

The National Association of Australian State Road Authorities (NAASRA) was established in 1934. 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 Main Roads, Tasmania; Northern Territory Department of Transport and Works; Commonwealth Department of Housing and Construction.

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. National standards for road and bridge construction and maintenance and improved administrative and financial control methods are developed by committees of experienced staff from the authorities, with secretarial services provided by a small staff located in Sydney.

This Secretariat arranges publication of the policies and standards which are widely used by road authorities, local government and universities; co-operates with the Standards Association of Australia on the preparation of national codes of practice; and acts as an Australian centre for contact with overseas road bodies and for the circulation of standards published by them.

Road research is a continuing concern, and in 1959 the Association decided to set up and finance a separate national centre to conduct road research on behalf of its members. The Australian Road Research Board (ARRB) was duly established in 1960 as a company controlled by a Board consisting of the NAASRA members.

The Association regularly confers with the Commonwealth Department of Transport, the Bureau of Transport Economics and the Australian Transport Advisory Council on major road 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 Association is a member of the Permanent International Association of Road Congresses (PIARC) and of the Road Engineering Association of Asia and Australasia (REAAA).

Australian Road Research Board

The Australian Road Research Board (ARRB) is a non-profit-making company founded in 1960 by the National Association of Australian State Road Authorities (NAASRA), and now located at Vermont in Victoria. It is financed by Federal and State Government Road Authorities whose permanent heads form ARRB's Board of Directors. The Executive Director, a full-time employee of the Board, is responsible for administering the Directors' policies.

The ARRB regularly undertakes and arranges road and road transport research over a comprehensive range of subjects and disseminates results to appropriate organisations, engineers and scientists involved in the design, location, construction, upkeep and use of roads. The Board also relies on advice from its Technical Committees in Bituminous Surfacings, Road Pavements, Human Factors, Local Government Engineering, Traffic Engineering and Transport Planning, and its Steering Committee of senior advisors.

The ARRB disseminates road research information through its major conferences, first held in 1962, and regular symposia, and through its publications which include the Conference Proceedings, a quarterly journal Australian Road Research and various reports arising out of its many research projects. The Board also maintains a unique library of road literature and operates an expanding computer-based information service called Australian Road Index which collects and collates all Australian road research findings. It also operates the International Road Research Documentation (IRRD) data base of OECD in Australia.

AIR TRANSPORT

Department of Transport

Commonwealth 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. Details about air transport control and operations are given in the annual reports to the Commonwealth Parliament by the Minister for Transport.

International activity

International organisations. The International Civil Aviation Organization (ICAO) had a membership of 144 nations in June 1979. Australia has continued its position as a member of the Council, which it has held since ICAO was established in 1947.

International agreements. Australia had air service agreements in force with twenty-five countries at 30 June 1979. 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 two other countries at 30 June 1979.

International air services. At 30 June 1979, twenty-three overseas international airlines were operating regular scheduled air services to Australia. These were: 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), Continental Airlines (United States of America), Deutsche Lufthansa (Federal Republic of Germany), Garuda (Indonesia), Japan Air Lines (Japan), JAT (Yugoslavia), KLM Royal Dutch Airlines (Netherlands), Singapore International Airlines (Singapore), Merpati Nusantara Airlines (Indonesia), Pan American World Airways (United States of America), Philippines Air Lines (Philippines), South African Airways (Republic of South Africa), Thai International (Thailand), Malaysian Airways (Malaysia), and Union de Transport Aeriens (France). Qantas, Australia's international airline, operates a fleet of aircraft of which one is a Hawker Siddeley 125, and seventeen are Boeing 747 jet aircraft. All shares in Qantas Airways Limited are owned by the Commonwealth Government.

International operations. The table following shows particulars of international airline traffic during 1977-1978 moving into and out of an area which embraces Australia and Norfolk Island. These figures do not include traffic between Australia and Norfolk Island.

AIR TRANSPORT: INTERNATIONAL AIRLINE TRAFFIC TO AND FROM AUSTRALIA(a), 1977-78

Type of traffic	Number of flights	Passengers	Freight	Maii
Traffic to Australia—	······································			
Qantas Airways Limited	4,792	703,566	20,624	749
Other airlines	7,263	845,388	33,667	4,769
All airlines	12,055	1,548,954	54,291	5,518
Qantas Airways Limited	4,819	664,740	13,452	2,117
Other airlines	7,208	823,266	21,487	1,025
All airlines	12,027	1,488,006	34,940	3,142

(a) Australian mainland 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 overseas countries.

AIR TRANSPORT: OPERATIONS OF AUSTRALIA'S REGULAR OVERSEAS SERVICES

				1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
	_	 			1773 77				
Hours flown			number	87,548	90,293	86,231	85,839	79,499	77,539
Kilometres flown			000°	64,823	69,062	65,045	65,221	61,586	65,625
Passengers-									
Embarkations			number	1,054,929	1,295,457	1,418,541	1,488,858	1,551,679	1,569,374
Passenger-kilometres			000	6,775,195	8,653,357	9,434,345	10,541,870	11,318,928	12,029,554
Freight-									
Tonnes uplifted .			tonnes	23,239	27.328	29,974	33,417	34,380	39,986
			000	150,342	195,078	213,748	243,911	258,748	301,253
Mail-									
Tonnes uplifted .			tonnes	2,791	2,912	2,950	2,997	3,205	2,971
			000	22,891	25,071	24,043	26,217	27,788	27,618

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, Australian National Airlines Commission trading as Trans-Australia Airlines (TAA). 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 competition are the Airlines Agreements 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 TAA and Ansett Airlines of Australia, and was designed to prevent the provision of excess aircraft capacity. The Airlines Agreement Act established the basis of control of the two-airline competitive system. In addition to purely interstate services, both Ansett Airlines of Australia and Trans-Australia Airlines operate intrastate routes, most of which are non-competitive.

At 30 June 1979, the Ansett Airlines of Australia fleet included ten Boeing 727s, twelve DC-9s, eleven Friendships, three Electra freighters and three helicopters. At the same date, Trans-Australia Airlines operated a fleet of ten Boeing 727s, twelve DC-9s, twelve Friendships and four Twin Otter DHC-6s.

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 Darwin (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 their respective capital cities. Except for 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 F28 Fellowships and F27 Friendships.

Commuter services. These are regular public transport flights by charter firms with small single and twin-engined aircraft operating to fixed and published timetables. They are not airline services and primarily provide air links between towns and country areas which are not served by the major airlines. At 30 June 1979 forty-seven 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.

					1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
				number	256,435 118,566	281,611	282,706 135,455	270,928	258,151	279,410 134,720
•	•	•	•	000	110,500	151,025	155,155	150,100	122,755	.5 1,720
				number '000	7,502,892 5,684,791	8,857,654 6,812,300	9,393,104 7,374,126	9,315,141 7,280,993		10,288,959 8,181,028
						, ,		, ,	,	
				tonnes	94,425	112,654	107,813	106,061	,	120,890
•	٠	٠	•	1000	81,319	98,294	97,914	97,499	96,313	106,471
				tonnes	10,114	9,916	9,613	9,708	9,636	11,307
				000	9,787	9,272	9,023	9,113	9,148	10,726
						number 256,435 '000 118,566 number 7,502,892 '000 5,684,791 tonnes 94,425 '000 81,519 tonnes 10,114	number 256,435 281,611 '000 118,566 131,829 number 7,502,892 8,857,654 '000 5,684,791 6,812,300 tonnes 94,425 112,654 '000 81,519 98,294 tonnes 10,114 9,916	number 256,435 281,611 282,706 1000 118,566 131,829 135,455 number 7,502,892 8,857,654 9,393,104 '000 5,684,791 6,812,300 7,374,126 tonnes 94,425 112,654 107,813 '000 81,519 98,294 97,914 tonnes 10,114 9,916 9,613	number 256,435 281,611 282,706 270,928 131,829 135,455 130,100 number 7,502,892 8,857,654 9,393,104 9,315,141 '000 5,684,791 6,812,300 7,374,126 7,280,993 tonnes 94,425 112,654 107,813 106,061 '000 81,519 98,294 97,914 97,499 tonnes 10,114 9,916 9,613 9,708	number 256,435 281,611 282,706 270,928 258,151 7000 118,566 131,829 135,455 130,100 122,933 28,857,654 9,393,104 9,315,141 9,348,697 7000 5,684,791 6,812,300 7,374,126 7,280,993 7,329,665 7000 81,519 98,294 97,914 97,499 96,315 100,114 9,916 9,613 9,708 9,636

AIR TRANSPORT: OPERATIONS OF REGULAR INTERNAL SERVICES AUSTRALIA(a)

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 Norfolk Island. At ports where through-passengers transfer between flights, such passengers are counted as embarking as well as disembarking passengers.

⁽a) Includes flights of all Australian-owned airlines, with the exception of those of Qantas Airways Limited, between airports located within Australia. The domestic carrier, East-West Airlines, commenced services between Australia and Norfolk Island in March 1977 and particulars of these flights are included from that time. Prior to March 1977, Australia-Norfolk Island flights were serviced by Qantas and details of those flights were included with statistics of regular overseas services.

INTERNAL AIRWAYS PASSENGER	EMBARKATIONS AND DIS	SEMBARKATIONS AT PRINCIPAL
	AUSTRALIAN AIRPORTS	

					_	_	_	_	 					
Airport									1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
Sydney .			_						4,162,659	4,679,513	4,953,051	4,788,086	4,846,610	5,273,436
Melbourne									3,226,294	3,876,877	4,037,585	4,125,932	4,149,390	4,552,462
Brisbane									1,658,043	2,078,812	2,218,780	2,119,538	2,075,381	2,252,888
Adelaide									1,154,384	1,374,645	1,494,675	1,454,917	1,618,299	1,729,030
Canberra									813,712	934,069	981,815	901,837	881,668	966,388
Perth .									536,057	646,699	696,527	629,530	704,041	792,873
Hobart .									282,676	382,636	375,769	403,759	403,069	437,948
Townsville									231,665	315,782	320,153	329,831	322,498	353,522
Coolangatta	ı								243,994	278,044	300,854	314,780	320,606	409,151
Launceston									244,982	294,694	287,741	304,784	309,341	353,596
Cairns .									204,414	251,847	266,620	275,439	270,147	307,525
Mackay									159,408	196,951	213,972	249,196	244,025	254,954
Darwin .									141,696	182,319	241,003	208,806	200,833	225,052

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. Hours flown by general aviation during 1978-79 were estimated at 1.53 million, approximately 1.2 per cent more than the previous year.

Aerodromes

The number of aerodromes throughout Australia and its external territories at 30 June 1979 was 444. Eighty-one were owned by the Commonwealth Government and 363 by local authorities and private interests. Capital expenditure on aerodrome and building construction was \$5.9 million in 1978-79. Maintenance expenditure on Commonwealth Government-owned aerodromes during 1978-79 was \$6.245 million, and development and maintenance grants to licensed aerodromes participating in the Local Ownership Plan totalled \$3.354 million.

Airway facilities

A total of 460 navigational aids were in service at 30 June 1979. The total includes 252 non-directional beacons (NDB) (includes 224 standard NDB's and 28 locators), 107 distance measuring equipment (DME), 11 international distance measuring equipment (DMEI), 2 visual-aural ranges (VAR), 70 VHF omni-directional ranges (VOR), 17 instrument landing systems (ILS) and one twin locator approach system.

One hundred and fifty-five aerodromes are now equipped with night landing facilities. Eighty-seven Australian-designed 'T' systems (T-VASIS) are operating. Seven long-range surveillance radars, two short range and seven secondary surveillance radars (seven civil, two military) are also in operation. There are twenty-eight fully-equipped Air Traffic Control Centres and forty-three flight service units in operation.

Air transport registrations, licences, etc., in force in Australia

At 30 June 1979 there were 5,997 aircraft registered in Australia. At the same time there were also 50,314 pilots' licences in force, of which 21,937 were private pilots' licences, 7,653 commercial pilots' licences, and 20,724 student pilots' licences. Flight radio-telephone operators' licences numbered 36,884.

Accidents and casualties

AIR TRANSPORT: ACCIDENTS INVOLVING CASUALTIES(a) AUSTRALIA(b)

	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
Number	34	24	32	33	45	43
Persons killed	46	25	54	39	54	42
Persons seriously injured	19	16	24	24	24	37

⁽a) Accidents involving civil aircraft which resulted in death or serious injury. Excludes parachutists killed on contact with earth after an uninterrupted fall. (b) Excludes accidents outside Australia involving aircraft on the Australian register; includes all accidents to overseas registered aircraft that occur in Australia.

POSTAL, TELECOMMUNICATION AND RADIOCOMMUNICATION SERVICES

In this section, 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 Offices of the Postal and Telecommunications Department are located in Canberra, Melbourne and Sydney.

Postal and Telecommunications Department

The Postal and Telecommunications Department was created on 22 December 1975. It replaced the Postmaster-General's Department, assuming those PMG functions remaining after the formation of the Postal and Telecommunications Commissions on 1 July 1975. A major activity of the Department is the administration of the Wireless Telegraphy Act 1905 which concerns the regulation and management of the radio frequency spectrum for radiocommunications within the Commonwealth and its Territories.

The Department undertakes, also, planning for the development of broadcasting and television services in Australia and the determination of standards and practices for technical equipment used in broadcasting and television services for which formal responsibility attaches to the Minister for Post and Telecommunications pursuant to the provisions of the Broadcasting and Television Act.

Another function of the Department is to provide policy advice to the Minister on postal, telegraphic, telephonic, broadcasting and other like services which are subject to legislation for which the Minister for Post and Telecommunications is responsible.

Authorities responsible to the Minister for Post and Telecommunications have been established 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.

Australian Postal Commission

The Australian Postal Commission was established under the *Postal Services Act* 1975. It commenced operations on 1 July 1975 and trades under the name Australia Post.

The establishment of the Australian Postal Commission was accompanied by a complete reorganisation of the management of postal services in Australia. The Commission was given a charter to improve postal services whilst avoiding the large financial losses of previous years. The Postal Services Act sets specific financial objectives for the Commission, which are designed to enable postal services to be operated on a business-oriented basis.

In accordance with the *Postal Services Act* 1975, the Australian Postal Commission is required to pursue, as far as practicable, a financial policy to secure revenue sufficient to meet all expenditure chargeable to revenue and provide at least half of its capital expenditure.

Since 1 July 1975, Australia Post has taken a number of initiatives to develop new services and maintain existing ones while at the same time maintaining competitive pricing. The initiatives include:

- the introduction of Australia Post Courier services
- the introduction of reduced rate and discount mail services for bulk lodgements of mail
- the introduction of a concessional rate for domestic Christmas greeting cards
- the introduction of a new postal Money Order Service
- the revision of the Registered Publications Service
- the introduction of an overnight parcels service between all capital cities, and
- a new policy for rural and remote mail deliveries which provides for a minimum of twice weekly delivery wherever practicable.

In order to improve services further, the Commission has undertaken a program to decentralise the mail sorting and distribution network. The program involves the establishment of regional mail sorting centres in country and suburban areas and, to date, mail network plans have been approved for New South Wales, Victoria and Queensland. Decentralised mail handling centres are already operating in those States, and the implementation of the decentralised network in Victoria is almost complete.

The following tables indicate Australia Post's financial results, services and operations for 1978-79. Selected tables also show figures for earlier periods.

AUSTRALIAN POSTAL COMMISSION: REVENUE AND EXPENDITURE, 1973 TO 1978 (\$'000)

Year ended 30 June—	1974	1975	1976(a)	1977(a)	1978(a)	1979(a)
Revenue-						
Mail services	224,246	274,073	402,221	435,790	456,739	528,978
Money order, postal order services	4,944	5,653	7,481	6,881	6,242	5,434
Commission on agency services	11,863	13,207	85,892	101,739	95,636	93,171
Other revenue	3,943	9,055	10,044	17,186	20,110	18,907
Total	244,996	301,988	505,638	561,596	578,727	646,490
Operating and general	203,185	262,006	354,995	395,675	426,100	476,915
Transportation	36,638	42,214	46,723	50,168	55,343	44,842
Depreciation, superannuation, long-service						
leave, interest	59,691	62,364	72,258	86,854	95,217	102,144
Total	299,514	366,584	473,976	532,697	576,660	623,901

⁽a) Figures not comparable with years prior to 1976 due mainly to changes in accounting for work done at post offices for Telecom Australia.

NOTE: Prior to I July 1975, postal services were operated by the Postmaster-General's Department.

AUSTRALIAN POSTAL COMMISSION: STATEMENT OF REVENUE AND EXPENDITURE FOR THE YEAR ENDED 30 JUNE 1979 (\$'000)

Revenue-	
Mail services	528,978
Postal order and money order services	5,434
Commission on agency services	93,171
Other revenue	18,907
Total ,	646,490
Expenditure—	
Operating and general	476,915
Transportation	44,842
Depreciation	13,926
Superannuation	65,550
Long Service Leave	18,582
Interest	4,086
Total	623,901
Accumulated surplus available for appropriation—	
Operating surplus	22,589
Accumulated surplus brought forward	23,301
Total	45,890
Appropriation—	
For Capital Financing	23,301
Total	23,301
Accumulated surplus carried forward	22,589

AUSTRALIAN POSTAL COMMISSION: SUMMARY OF TRANSACTIONS AFFECTING FIXED ASSETS, 1978-1979

(\$)

Class of asset	Value at 1 July 1978	Additions in the year	Asset expenditure written out	Value at 30 June 1979 (a)
Land	24,781,759	980,766	999,019	24,267,263
Buildings	166,334,247	13,863,818	797,056	177,911,214
Motor vehicles	12,439,275	4,055,887	3,996,302	12,498,860
Plant	35,513,478	2,107,731	2,052,436	35,568,773
Equipment	15,983,749	2,964,388	526,162	18,292,310
Total value of fixed assets Less depreciation	255,052,508	23,972,590	8,370,975	268,538,420 56,317,720
Net book value of fixed assets				212,220,700

AUSTRALIAN POSTAL COMMISSION: ANALYSIS OF TRANSACTIONS AFFECTING THE PROVISION FOR DEPRECIATION, 1978-79

(\$)

Class of asset	Balance of provision at I July 1978	Depreciation provided for in 1978-79	Asset expenditure written out	Balance of provision at 30 June 1979
Buildings	28,528,555	5,490,637	342,340	31,690,814
Motor vehicles	4,422,795	4,146,425	3,996,302	4,572,918
Plant	13,341,199	3,092,749	2,052,436	14,381,512
Equipment	5,131,733	1,196,570	526,162	5,672,476
Total value of provision	51,424,282	13,926,381	6,917,240	56,317,720

AUSTRALIAN POSTAL COMMISSION: PERSONS ENGAGED IN PROVIDING POSTAL SERVICES AT 30 JUNE 1979

• •	H.Q.	N.S.W. (Incl. A.C.T.)	Vic.	Qld	S.A. (Incl. N.T.)	W.A.	Tas.	Aust. 1978	Aust. 1979
Full time official staff (a)-									
Permanent	532	9,400	6,092	3,519	2,517	1,989	679	24,728	24,565
Temporary	21	3,296	2.219	542	264	358	107	6,807	7,086
Other staff(b)	1	4,351	2,495	2,008	1,195	959	473	11,482	11,855
Total	554	17,047	10,806	6,069	3,976	3,306	1,259	43,017	43,506

⁽a) 'Official Staff' are those whose employment is governed by the *Postal Services Act* 1975. (b) Includes persons who are not employed under the Postal Services Act, but who are employed on the basis of business transacted. Also included are persons or organisations who hold road mail service contracts with the Australian Postal Commission.

AUSTRALIAN POSTAL COMMISSION: MAIL DELIVERY NETWORK AND POST OFFICES AT 30 JUNE 1979

	N.S.W	Vic.	Qld	S.A.	W.A.	Tas.	Aust. 1979	Aust. 1978
Contract road services .	. 1,766	816	1,049	298	394	183	4,506	4,608
Households receiving mail	. 1,716,377	1,255,099	678,213	454,277	395,488	131,144	4,630,598	4,527,971
		108,769	67,851	38,673	37,385	11,015	417,655	401,167
Post Offices -								
Official-								
At 1 July 1978	. 513	336	224	169	163	42	1,447	
At 30 June 1979 .	. 508	332	225	166	160	42	1,433	
Non-official-							,	
At 1 July 1978	. 1,339	1.003	639	552	376	215	4,124	
At 30 June 1979 .	. 1,241	970	597	535	365	207	3,915	
Total post offices	. 1,749	1.302	822	701	525	249		

AUSTRALIAN POSTAL COMMISSION: TOTAL POSTAL ARTICLES HANDLED ('000)

		Posted for			Total	Mail carrie domestic ai services (in in total)(a)	r cluded
Year ei	nded 30 June	delivery within Australia	Posted for places abroad	Received from abroad	postal articles handled	Articles	Gross weight
					•		kilograms
1974		2,411,355	97,833	147,053	2,656,241	499,767	6,483,148
1975		2,281,898	93,898	140,176	2,515,972	495,725	6,430,717
1976		1,989,575	82,577	136,394	2,208,546	431,328	5,594,724
1977		1,972,570	85,005	140,802	2,198,377	496,470	6,448,310
1978		2,069,153	84,993	149,393	2,303,539	516,330	6,706,242
1979		2,281,974	81,433	149,278	2,512,685	661,352	8,590,967

(a) Postings within Australia and Territories for delivery therein.

AUSTRALIAN POSTAL COMMISSION: ORDINARY POSTAL ARTICLES(a) ('000)

	Standard le	iters			Non-standar	d articles		
Year ended 30 June	Posted for delivery within Australia	Posted for places abroad	Received from abroad	Total articles	Posted for delivery within Australia	Posted for places abroad	Received from abroad	Total articles
1977	1,697,798	70,102	103,115	1,871,015	254,502	12,498	33,021	300,021
1978	1,774,608	67,610	110,222	1,952,440	273,189	14,893	34,379	322,461
1979	1,963,533	66,332	108,923	2,138,788	295,458	12,642	35,547	343,647
		STATES-Y	EAR END	ED 30 JUI	NE 1979			
New South Wales	774,802	29,305	47,873	851,980	128,423	7,010	14,383	149,816
Victoria	528,480	19,611	38,103	586,194	84,850	3,448	14,745	103,043
Queensland	282,864	5,787	10,100	298,751	32,484	1,014	2,378	35,876
South Australia	172,208	5,863	5,700	183,771	19,655	407	1,541	21,603
Western Australia	153,644	5,473	7,147	166,264	17,814	743	2,500	21,057
Tasmania	51,535	293		51,828	12,232	20		12,252

(a) Includes certified, messenger delivery and priority paid mail.

AUSTRALIAN POSTAL COMMISSION: REGISTERED ARTICLES(a) AND PARCELS(b)('000)

	Registered a	rticles			Parcels			
Year ended 30 June	Posted for delivery in Australia	Posted for places abroad	Received from abroad	Total articles	Posted for delivery in Australia	Posted for places abroad	Received from abroad	Total articles
1974	7,063	1,898	2,761	11,722	22,323	1,041	1,964	25,328
1975	6,256	2,113	2,797	11,166	20,419	1,002	1,939	23,360
1976	3,877	1,533	2,807	8,217	15,300	1,050	1,950	18,300
1977	3,370	1.375	2,696	7,441	16,900	1.030	1.970	19,900
1978	3,122	1,422	2,794	7,338	18,234	1,068	1,998	21,300
1979	3,108	1,371	2,790	7,269	19,875	1,088	2,018	22,981
		STATES-Y	EAR ENDE	D 30 JUN	NE 1979			
New South Wales	1,039	734	1,789	3,562	7,891	474	723	9,088
Victoria	823	427	829	2,079	5,632	376	761	6,769
Queensland	525	64	47	636	2,994	80	287	3,361
South Australia	342	64	29	435	1,570	78	95	1,743
Western Australia	260	80	96	436	1,409	80	152	1,641
Tasmania	119	2		121	379			379

(a) Totals include messenger delivery mail. (b) Totals include certified, messenger delivery and priority paid mail.

AUSTRALIAN POSTAL COMMISSION: SPECIAL SERVICES: ARTICLES HANDLED (2000)

										(1000)		
Year e	nde	d 3	0 J	une	e					Certified mail	Messenger delivery	Priority paid mail(a)
1974										6,241	1,794	1,623
1975										6,288	1,572	1,462
1976										5,424	1,129	1,386
1977										4,927	1,007	1,449
1978										5,473	1,013	1,783
1979										5,056	1,048	2,020
				5	STA	١T	ES-	~ Y	'EAR	ENDED 30 J	UNE 1979	
New S	out	hν	Val	es						1,555	665	1,047
Victor	ia									1,360	194	426
Queen	slar	ıd								961	68	161
South	Aus	tra	lia							450	61	205
Weste	rn A	us	tra	lia						485	54	121
Tasma	nia									245	6	60

AUSTRALIAN POSTAL COMMISSION: MONEY ORDERS AND POSTAL ORDERS

								Money orde	ers issued(a)				
								For payme Australia	nt in	For paymen	t overseas	Postal orders issue	d(a)
Year end	led	30	Ju	ne				Number	Value	Number	Value	Number	Value
_								2000	\$ '000	000	\$'000	000	\$'000
1974								4,348	149,099	426	5,343	15,822	60,887
1975								4,161	177,023	361	5,645	14,547	60,566
1976								3,685	197,201	258	4,681	9,673	42,554
1977								3,610	218,513	198	4,162	7,100	33,075
1978(b)								6,801	337,652	188	4,515	2,228	10,863
1979(b)								9,584	427,898	181	5,019		

⁽a) Since 21 November 1977 a new Postal Money Order Service has replaced both the Money Order and Postal Order Services.
(b) Money Orders issued includes Postal Money Orders issued since 21 November 1977.

AUSTRALIAN POSTAL COMMISSION: SUMMARY OF AUSTRALIAN OVERSEAS AIRMAIL-ARTICLES

('000')

		Despatched	loverseas			Received from overseas					
Year ei	nded 30 June	Letters	Other articles	Parcels	Total articles	Letters	Other articles	Parcels	Total articles		
1974		66,418	8,322	275	75,015	96,949	9,239	695	106,883		
1975		66.097	8,508	301	74,906	96,615	9,557	741	106,913		
1976		59,210	7,371	274	66.855	96,450	9,763	799	107,012		
1977		59,103	7,433	337	66,873	97,885	11,013	851	109,749		
1978		59,554	8,014	395	67,963	100,067	12,712	859	113,638		
1979		62,413	5,617	392	68,422	98,851	12,259	917	112,027		

Telecommunications services within Australia

The Australian Telecommunications Commission commenced operations on 1 July 1975, taking over the telecommunications functions of the former Postmaster-General's Department.

The functions of the Commission as set out in the Telecommunications Act 1975 are:

- to plan, establish, maintain and operate telecommunications services within Australia;
- to operate such other services as the Commission is authorised by this Act to operate;
- to provide, at the request of the Australian Government, technical assistance outside Australia in relation to the planning, establishment, maintenance and operation of telecommunications services in countries outside Australia; and
- to do anything incidental or conducive to the performance of any of the preceding functions.

Financial Results

The following tables show the earnings, expenses and funds situation for the latest three years of the Commission's operations.

AUSTRALIAN TELECOMMUNICATIONS COMMISSION: REVENUE (\$'000)

			_							,,,	 			
Year ended 30 J	une	_										 1977	1978	1979
Telephone renta	ls											454,111	495,420	533,295
Telephone calls												967,331	1,078,830	1,211,057
Telephone conne	ecti	ons	an	d re	arı	ran	gei	ne	nts			77,465	80,719	88,206
Telegrams .							٠.					31,511	31,303	35,187
Telex rentals												16,219	18,655	21,495
Telex calls .												20,021	26,081	24,890
Other earnings(7)											108,334	125,490	130,274
Total												1,674,991	1,856,499	2,044,404

⁽a) Major items within this classification are: Fees for advertisements in telephone directories, proceeds of sales of fixed assets, telephone service connection fees and telex call fees.

AUSTRALIAN TELECOMMUNICATIONS COMMISSION: EXPENDITURE (\$'000)

Year ended 30 June-							1977	1978	1979
Maintenance of plant							355,196	386,723	424,736
Operating							275,278	288,573	307,994
General and administ							71,520	105,160	137,001
Accommodation .							64,678	74,705	85,917
Depreciation							340,817	366,514	410,412
Superannuation .							100,381	106,669	118,887
Long service leave							24,090	25,949	30,849
Interest							278,629	317,288	338,090
Total							1,510,589	1,671,580	1,853,884

AUSTRALIAN TELECOMMUNICATIONS COMMISSION: FUNDS STATEMENT

(\$ million)

At 30 June-	 1977	1978	1979
Source of funds—	 	· 	
From the Commonwealth	215.0	65.0	_
From the public	193.7	200.3	177.6
From trading activities—			
Net trading result	164.4	184.9	190.5
Plus non-cash charges—			
Depreciation	340.8	372.3	416.4
Excess of liability over cash payment for—long service leave .	7. I	10.3	15.4
superannuation .		-	66.5
Total	921.0	832.8	866.4
Application of funds—			
Increase in fixed assets and stores holdings	897.0	949.5	936.1
Less non-cash charges capitalised—			
Depreciation	-9.2	-10.9	-12.2
Long service leave liability	-15.6	-17.1	-16.6
Superannuation	-	-	-61.4
Increase in current assets over current liabilities	48.8	-108.3	7.1
Plus transfers from long term liabilities	_	19.6	13.4
Total	921.0	832.8	866.4

A brief history of the development of telecommunications in Australia is shown in Year Book No. 59, pages 378-82. Common internal telecommunication operations comprise telephone, telegram, telex and data services. The following tables give details of these services.

TELEPHONE SERVICES IN OPERATION AT 30 JUNE 1979

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Australia
Type of service—							
Ordinary exchange services	1,512,835	1,155,560	523,051	368,673	316,279	108,886	3,985,284
Party line services	2,354	326	1,952	534	328	_	5,494
Private branch exchange	156,645	127,622	45,389	48,498	40,843	7,445	426,442
Public telephones	12,799	6,997	5,309	3,166	2,864	1,113	32,248
Connected to-							
Automatic exchanges	1,648,418	1,274,849	550.953	409.247	358,006	117,444	4,358,917
Manual exchanges	36,215	15,656	24,748	11,624	2,308	_	90,551
Located in—							
Metropolitan local service area	1.033,164	949,265	311,176	314,935	276,035	52,940	2,937,515
Country areas	651,469	341,240	264,525	105,936	84,279	64,504	1,511,953
Total	1,684,633	1,290,505	575,701	420.871	360,314	117,444	4,449,468

TELEPHONE INSTRUMENTS IN SERVICE

At 30 June-	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Australia
1977	2,376,900	1,701,769	688,024	487,469	436,033	144,711	5,834,906
1978	2,537,345	1,749,733	735,262	531,475	472,788	154,713	6,181,316
1979	2,714,946	1,909,119	797,906	576,901	514,460	163,244	6,676,576
Number per 100 population at 30 June	53.7	49.6	36.4	44.7	41.6	39.2	46.4

LOCAL AND TRUNK LINE TELEPHONE CALLS

Year ended 30 June-	1977	1978	1979
Effective paid local calls	3,924,000,000	4,186,000,000	4,483,000,000
Local calls per service	1,032	1,037	1,041
Trunk line calls	412,000,000	462,000,000	523,000,000
Trunk lines calls per service	108	114	121
Total calls	4,336,000,000	4,648,000,000	5,006,000,000

Subscriber Trunk Dialling (STD) facilities were introduced during the year 1961-62. For the year ended at 30 June 1979, 88.8 per cent of trunk calls were made by STD.

Telegrams

Telegrams can be lodged at any post office or telephone office or from any public telephone equipped for multi-coin operation. In addition, telegrams can be dispatched from any subscriber's telephone or telex service. The number of telegrams of various types transmitted within Australia is set out below.

TELEGRAM TRAFFIC

Year ended 30 June-	1977	1978	1979
Ordinary	9,225,700	7,775,779	6,024,376
Urgent		164,497	184,934
Lettergrams :	16,627	18,916	(a)6,688
Meteorological	743,004	635,598	534,482
Service	240,289	371,252	324,286
Total telegrams	10,397,769	8,966,042	7,074,766

⁽a) Lettergrams discontinued from 1 October 1978.

Telex

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

Year ei	ıde	1.	30	Ju	ne								Number of services	Internal calls during the year
1977													19,601	29,435,000
1978													22,724	32,177,000
1979													25,901	35,564,000

Further detailed statistics are contained in the Commission's Annual Reports.

Overseas telecommunications services

The Overseas Telecommunications Commission (Australia) (OTC), established by the Overseas Telecommunications Act 1946, is a Commonwealth Statutory Authority responsible for the establishment, maintenance, operation and development of all public telecommunications services between Australia and other countries, between Australia and its external territories and with ships at sea. It has a specific responsibility under section 38A, to make its services available at the lowest possible rates of charges. The OTC is responsible to the Commonwealth Parliament through the Minister for Post and Telecommunications.

Telephone, telex, public message telegram, phototelegram, switched data and leased circuit services are provided to most countries and places throughout the world by means of submarine cables, communications satellites and, in a decreasing number of cases, short wave radio. Television relay is provided to and from countries with access to satellite communication facilities.

The OTC is directed by five Commissioners appointed by the Governor-General. The chief executive is the General Manager, who is appointed by the Commission.

International consultation

The OTC participates in the Commonwealth Telecommunications Organisation, the International Telecommunication Union and the International Telecommunications Satellite Organisation (INTELSAT) which has established a global communications satellite system. The OTC is involved in the establishment of the International Maritime Satellite Organisation (INMARSAT) which will provide a satellite system for high-grade telephone, telex and data communications with ships at sea on a global basis, including distress and search and rescue communications.

Establishments

The Commission's Head Office is in Sydney and it has offices in Melbourne and Brisbane. The Commission owns and operates International Gateway terminals at Paddington and Broadway in Sydney which interface with the national telecommunications network; cable stations at Cairns (Qld) and at Guam in the Mariana Islands; satellite earth stations at Carnarvon (W.A.), Ceduna (S.A.) and Moree (N.S.W.) which provide more than half of Australia's telecommunications links; international radio stations at Doonside and Bringelly (N.S.W.) and at Gnangara (W.A.); and fourteen coast radio stations at points around the Australian coast and at Norfolk Island for communicating with ships at sea.

Submarine cables

The OTC is a part owner of the following submarine cables (the year in which they opened for service is in brackets): COMPAC, Sydney-Auckland-Suva-Hawaii- Vancouver (1963); SEACOM, Sydney-Madang-Guam-Hong Kong-Kota Kinabula (Malaysia)-Singapore (1967); TRANSPAC II, Hawaii-Guam-Okinawa (1975); HAW III, Hawaii-U.S. Mainland (1975); TASMAN, Sydney-Auckland (1976); A-PNG, Sydney-Port Moresby (1976); OLUHO, Okinawa (Japan)-Philippines-Hong Kong (1977) and ASEAN P-S, Philippines-Singapore (1978). The OTC is a participant in the construction of ASEAN I-S, Indonesia-Singapore, which will be ready for service in June 1980.

Satellites

OTC is a shareholder in INTELSAT which operates communication satellites over the Indian, Pacific and Atlantic Oceans.

1978-79 Statistics

As at March 1979, the OTC staff totalled 2,116, revenue for the previous twelve months was approximately \$143 million and profit after tax was \$18,058 million, the after tax return on capital and reserves being 22.9 per cent. Telephone service which is available to 240 overseas destinations provided about 61 per cent of revenue, telex about 21 per cent and telegraph about 6.5 per cent. International Subscriber Dialling or ISD, by which the customer can dial his or her own overseas telephone calls, is now available to 70 destinations. Over 98 per cent of overseas telex calls from Australia are now automatically subscriber connected.

Facilities to match growth

The high growth in demand for the Commission's services requires that the capacity of its major transmission and switching plant be at least doubled every three years. The OTC is applying computer techniques extensively in its telegraph, telephone and telex services.

Charges

The Commission made reductions in charges for leased circuit and long-haul telephone and telex rates in 1978-79. Some telegram tariffs and minor ancillary charges were increased reflecting the cost structure in those areas.

Detailed information on OTC

The Commission reports on its operations to Parliament through its Minister about September each year. Traffic, financial and other information is contained in its Annual Report, copies of which are available on request to the OTC.

International telecommunication traffic

The following table shows particulars of overseas telecommunication traffic between Australia and overseas countries for the years ended 31 March 1978 and 1979.

INTERNATIONAL TELECOMMUNICATION SERVICES: YEARS ENDED 31 MARCH 1978 AND 1979

		Transmis	sions				
		From Aus	tralia	To Austra	ılia	Total	
Service	1977-78	1978-79	1977-78	1978-79	1977-78	1978-79	
Telephone	'000 paid minutes	35,877	46,627	32.025	39,327	67,902	85,954
Telex	'000 paid minutes	12,964	13,825	12,203	14,319	25,167	28,144
Television programs	paid minutes	2,464	6,900	21,873	12,688	24,337	19,588
Telegraph services		59,351	56,223	44,360	41,554	103,711	97,777

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 1979 the coastal radio service handled 6,462,000 paid words to ships and 5,176,000 words from ships. Ship calls over the radiotelephone service extended over 277,000 paid minutes.

Radiocommunication stations authorised

At 30 June 1978 there were 460,171 civil radiocommunication stations authorised for operation in Australia and its Territories. Of these, 6,316 were stations established at fixed locations, 24,000 were land stations which were established at fixed locations for communication with mobile stations, 13 were space and broadcasting stations, 420,442 were mobile stations and 9,400 were amateur stations. Particulars of broadcasting stations are shown on page 545.

BROADCASTING AND TELEVISION

Radio and Television broadcasting falls within the jurisdiction of the Commonwealth Government and, pursuant to the *Broadcasting and Television Act* 1942, is one of the responsibilities of the Minister for Post and Telecommunications. Federal bodies which are involved include the Postal and Telecommunications Department, the Australian Broadcasting Commission (ABC), the Special Broadcasting Service, the Australian Broadcasting Tribunal, the Australian Telecommunications Commission and the Overseas Telecommunications Commission.

Basically, the Australian broadcasting system is comprised of the following types of stations:

- national radio and television stations broadcasting programs produced by the Australian Broadcasting Commission;
- commercial radio and television stations operated by companies under licence;
- public radio and television stations operated by corporations under licence on a non-profit basis; and
- stations operated under the aegis of the Special Broadcasting Service.

As from 1 January 1977, the Minister for Post and Telecommunications assumed the responsibility for broadcasting planning, including all matters relating to the technical operation of stations, and for the investigation of interference to the transmission and reception of programs.

The Commercial Radio and Television Service

Commercial radio and television stations are operated by companies under licences granted by the Australian Broadcasting Tribunal and with technical operating conditions determined by the Minister for Postal and Telecommunications. The stations obtain income from the broadcasting of advertisements. At 30 June 1978 there were 125 commercial radio stations in operation in Australia. Call signs for radio stations are prefixed by numerals indicating each State of Australia. (2–New South Wales, 3–Victoria, 4–Queensland, 5–South Australia, 6–Western Australia, 7–Tasmania, 8–Northern Territory). In addition there were fifty commercial television stations and eighty commercial television translator stations in operation in Australia. A television translator station is a station of low power designed to receive the signals of another station and re-transmit them by wireless telegraphy; it does not originate programs. There are eleven repeater stations in Australia operated by mining companies which transmit programs recorded on magnetic tape over a limited area.

The Public Broadcasting and Television Service

The Broadcasting and Television Act also makes provision for the grant of licences for the operation of public radio and television stations. At 1 April 1979, 19 public radio stations were broadcasting "special purpose" programs ranging from fine music to ethnic languages. A number of public radio stations are associated with tertiary educational institutions.

The Special Broadcasting Service

The Special Broadcasting Service (SBS) was established under the provisions of the *Broadcasting and Television Amendment Act* (1977) and began operation on 1 January 1978. The Service has responsibility for the ethnic radio stations in Sydney and Melbourne, 2EA and 3EA. It also provides subsidies for ethnic broadcasting on public broadcasting stations in capital cities and provincial centres other than Sydney and Melbourne. The SBS also conducts experimental ethnic television programs which are broadcast on the ABC.

The Special Broadcasting Service is empowered to undertake other special broadcasting programs as determind by the Government but at present has responsibility only for ethnic broadcasting. Currently the SBS obtains all revenue from public sources but it is empowered under the Act to fund its operations through sponsorship in a form approved by the Minister.

Broadcasting services

The Australian Broadcasting Tribunal

The Australian Broadcasting Tribunal came into being on 1 January 1977 and is responsible for certain of the functions previously performed by the Australian Broadcasting Control Board (abolished 31 December 1976), including the licensing and supervising of the operations (other than technical aspects) of all stations except national stations. The Tribunal is empowered to grant, renew, suspend or revoke licences and to determine program and advertising standards applicable to licensed stations. In particular, the Tribunal is required to conduct public inquiries into the granting of licences following the invitation of applications by the Minister, and into the renewal of licences, the setting of standards of broadcasting practices, alleged breaches of licence conditions and such other matters as the Minister may direct.

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 Australian Telecommunications Commission.

Technical facilities. At 30 June 1979 the National Broadcasting Service comprised 112 transmitting stations, of which eighty-nine were medium frequency, four frequency modulation and nineteen high frequency (six internal and thirteen Radio Australia). During the year, two new 100kw transmitters went into service at Shepparton for Radio Australia.

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 using highquality program transmission lines. A number of program channels are utilised to link national broadcasting stations in the capital cities of Australia. When necessary, this system is extended to connect both the national and commercial broadcasting stations.

At 30 June 1979 seventy-six 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 proportions of broadcasting time allocated on Radio 1 stations to the various types of program during 1978–79 were as follows: entertainment 58.4 per cent; news 8.4 per cent; sporting 12.1 per cent; spoken word 8.9 per cent; drama and features 1.9 per cent; parliament 7.7 per cent; religious 1.3 per cent; rural 0.5 per cent; and presentation 0.7 per cent. By contrast, the ABC's Radio 2 station's programming was: classical music 54.4 per cent; light music 0.9 per cent; entertainment 3.4 per cent; spoken word 12.3 per cent; religious 4.3 per cent; news 8.4 per cent; cent; education 6.2 per cent; spoken word 12.3 per cent; religious 4.3 per cent; news 8.4 per cent; rural 2.7 per cent; and presentation 1.3 per cent. Radio 3 (regional) stations feature a higher proportion of news and rural programs. 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-seventh Annual Report of the Australian Broadcasting Commission.

Overseas Broadcasting Service

There are nine high-frequency stations at Shepparton, two at Lyndhurst, Victoria and two at Carnarvon, Western Australia 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 ABC. The programs, which, as well as entertainment, give news and information about Australia presented objectively, are directed to most parts of the world but with special emphasis on Asia and the Pacific. They include 67 news bulletins a day. The overseas audience has grown very substantially in recent years, as evidenced by a large and increasing number of letters from listeners abroad (412,478 in 1978-79, compared with 317,106 in 1977-78), Radio Australia broadcasts in nine languages—English, Indonesian, Japanese, Neo-Melanesian, Thai, French, Standard Chinese, Cantonese and Vietnamese.

BROADCASTING	STATIONS:	30	HINE	1979

Type of station	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
National-									
Medium frequency	 22	6	20	10	18	6	5	2	89
High frequency	1	2	2	_	1	_	_	_	6
Frequency modulation	1	1	_	1	-	-	-	1	4
Overseas— Short wave (Radio Australia)	-	9	_	_	2	-	-	_	11
Commercial— Medium frequency	 42	22	27	9	16	8	2	2	128
Medium frequency	 2	1	_	ı	1	_	_	1	(a)6
Frequency modulation	6	3	3	-	2	1	-	-	15

⁽a) Includes broadcasting stations 2EA and 3EA operated by the Special Broadcasting Service.

Television services

The National Television Service

The National Television Service is provided by the Australian Broadcasting Commission through transmitters operated by the Australian Telecommunications Commission. The first national station (ABN Sydney) commenced regular transmission on 5 November 1956. At 30 June 1979, 166 stations were operating, including eighty-one translator stations.

The television programs provided by the Australian Broadcasting Commission cover a wide range of activities. The proportions of television time allocated among the ABC's various departments at 30 June 1979 were as follows: drama, 19.3 per cent; public interest, 15.7 per cent; sporting 16.6 per cent; news 5.5 per cent; variety and acts 5.2 per cent; education 26.0 per cent; musical performance 1.6 per cent; religious 1.3 per cent; rural 0.2 per cent; special arts and aesthetics 0.7 per cent; cartoons 1.1 per cent; panel and quiz games 0.7 per cent; and presentation 6.2 per cent. The average weekly transmission time for the 166 national television transmitters was eighty-seven hours during the year ended 30 June 1979.

During the year ended 30 June 1979, seven new national translator channels went into operation at Tuggeranong, A.C.T.; Young and Tamworth in New South Wales; Cobden and Colac in Victoria, and Tully and Mission Beach (Dunk Island) in Queensland.

Twelve remote communities are now provided with ABC programs from material tape recorded at Townsville and Perth.

Colour television

Colour television (PAL) was introduced in Australia late in 1974 and services became fully effective in March 1975.

TELEVISION AND TRANSLATOR STATIONS: 30 JUNE 1979

Type of station and location	N.S.	W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Total
National-										
Metropolitan television		1	1	1	1	1	1	1	1	8
Country television		13	7	31	6	15	2	3	-	77
Translator		25	10	15	4	11	14	l	I	81
Total, National .		39	18	47	11	27	17	5	2	166
Commercial— Metropolitan television		2	1	2	2	2	1		1	17
Country television	•	11	6		2	4	1		1	33
		11	_		3	•	1	_	-	
Translator	•	27	11	22	2	6	16	-	1	85
Total, Commercial .		41	20	33	8	12	18	1	2	135

Related publications

More detailed figures and particulars for earlier years are included in the annual publications, Rail, Bus and Air Transport, Australia (9201.0), Commonwealth Government Finance (5502.0), and Motor Vehicle Registrations, Australia (9304.0). Current information on subjects dealt with in this chapter appears in the Monthly Summary of Statistics, Australia (1304.0), the Digest of Current Economic Statistics, Australia (1305.0), Overseas and Coastal Shipping, Australia (annual) (9207.0), Motor Vehicle Registrations, Australia (quarterly) (9303.0), one preliminary monthly publication Registration of New Motor Vehicles, Australia (9301.0), two quarterly publications Road Traffic Accidents involving Casualties, Australia (9403.0) and (9402.0), and the monthly publication, Road Accident Fatalities, Australia (9401.0).

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, and the Australian Broadcasting Commission.