## CHAPTER 17

## MANUFACTURING

## AND INTERNAL TRADE



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## Introduction

## History

An historical summary of the development of the manufacturing industry in Australia since 1901 is contained in earlier issues of the Year Book.

## Decentralisation and manufacturing industries

The decentralisation of secondary industries, and the steps taken by the Commonwealth and State Governments towards its development, are referred to in previous issues of the Year Book.

## Bounties on manufacture

Bounties are paid by the Commonwealth Government to encourage local manufacture of certain products. The statutory provisions usually fix a term of operation of the bounty, provide for payment at a rate varying according to changes in the corresponding customs duty, specify the annual maximum amount of bounty payable, and require the bounty to be withheld or reduced if a manufacturer's net profit in production of the commodity exceeds a certain rate, or if rates of wages and conditions of employment in production of the commodity do not conform to prescribed standards. (See Chapter 22, Public Finance, for products on which bounties are paid.)

## Government authorities

## Industries Assistance Commission

The Industries Assistance Commission is a statutory authority which came into existence on 1 January 1974 as a result of a passing of the Industries Assistance Commission Act 1973 by the Australian Parliament. The Commission replaced the Tariff Board, which since 1921 had been responsible for advising the Government on assistance for industries mainly in the secondary sector of the economy. (The Industries Assistance Commission Act 1973 was amended in March 1978.)

The Commission is an advisory authority, advising the Government. Its functions are to hold inquiries and make reports to the Government in respect to matters of assistance to industries in the primary, secondary and tertiary sectors of the economy and in respect to other matters referred to the Commission by the Government. The Government is required to seek the Commission's advice before it makes changes in the long term assistance afforded industries; but the Government is not obliged to accept the Commission's advice.

References from the Government requiring the Commission to inquire and report on certain matters mainly arise from representations to the Government from organisations, companies or individuals seeking assistance. References are also initiated by the Government and the Commission itself has the power to initiate an inquiry.

The receipt of a reference from the Government is the official document directing the Commission to inquire and report on matters in accordance with the terms of reference and the guidelines as set by the Government.

Public hearings are held by the Commission in Canberra and in capital cities throughout Australia. At these hearings evidence is taken on oath or affirmation. The Act requires the Commission to take into consideration only sworn evidence. The inquiry subject and the date and location of public hearings are advertised in the press and advised by Commission circular.

If after receiving a report from the Commission, the Government decides that assistance afforded a particular industry should be changed, it introduces a proposal to this effect in Parliament. Thus the final responsibility for altering assistance given to particular industries within Australia rests with Parliament.

Copies of the Commission's reports, when released for publication by the Government, are sold by Australian Government Publishing Service bookshops.

The Commission is also required to report annually to the Government on its operations and on the general structure of industry assistance within Australia and its effects on the economy.

## Temporary Assistance Authority

The Temporary Assistance Authority (TAA), which replaced the Special Advisory Authority set up under the Tariff Board Act, came into operation on 1 January 1974 under the provisions of the Industries Assistance Commission Act 1973 (since amended).

The main function of the TAA is to undertake inquiries and submit reports to the Government within 45 days of receipt of a reference from the Government on the question of whether urgent action is necessary to provide assistance to any industry that is experiencing difficulty due to the importation of specified goods. If urgent action is necessary the Authority recommends the nature and extent of the assistance to be provided.

The Authority's reports on individual inquiries are normally made public once the Government's decision is announced and are available, as is the annual report, from the Australian Government Publishing Service bookshops.

## Bureau of Industry Economics

In September 1976, the Australian Government announced that the Bureau of Industry Economics would be established as a centre for research into the manufacturing and commerce sectors. The Bureau began operations in May 1977. Being formally attached to the Department of Industry and Commerce, it has professional independence in the conduct and reporting of its research.

The major objectives of the Bureau are to:

- carry out research work needed to assist the Government in the formation of industrial policy
- assist the Industries Assistance Commission (IAC) and other government bodies by making submissions on the results of its research
- attract a high standard of professional staff and publish its research findings
- complement the work of other research agencies and co-operate with universities and colleges in developing research programs.
The Bureau is also concerned with developments in mining, rural industry, public services (for example education, health, defence) and trade in goods and services which are linked with the manufacturing and commerce sectors.

A Council has been set up to advise the Minister of Industry and Commerce about the Bureau's work and to ensure that it is relevant to contemporary and long term issues in manufacturing and commerce. Members of the Council are drawn from a wide range of industries and backgrounds, including the universities and the trade union movement. In this way the Council of Advice provides a major link between the Bureau and the community. The Council assists with the development of the work of the Bureau and the effective dissemination of the results of the Bureau's work.

In its investigations, the Bureau principally makes use of economics and related disciplines. Technical and social factors affecting industry structure and performance are also taken into account.

The techniques of economic analysis used include supply and demand estimation, industry structure-performance relationships, input-output analysis, econometrics, cost-benefit methods and socio-demographic investigations. In addition, the Bureau is associated with the large-scale models of the Australian economy under development by the IMPACT team and at the Melbourne University Institute of Applied Economic and Social Research.

The staff of the Bureau includes officers with backgrounds in business, consultancy, government and university teaching and research. An initial nucleus of about 30 persons has been established and it is envisaged that additional recruitment will bring the size of the Bureau to about 100 persons within a few years.

Project control and resource commitments are determined by means of a feasibility study. Within the broad topic under investigation, several specific projects may be justified in relation to previous research findings, data availability, relevance to long-term policy issues and overall budget constraints. Some projects require special surveys where existing data sources are inadequate or more detailed information is required for particular industries. In certain projects the Bureau will undertake joint research with organisations in the private sector and consultants may be engaged where this will significantly enhance the quality of the research or will remedy any lack of in-house expertise.

When initial findings are available, work-in-progress papers are prepared to discuss the methods employed and to ensure that specialist qualified observers have an opportunity to comment on objectives of the research programme. Final reports on projects will be widely distributed with the aim of informing industry groups, government policy makers and teaching and research institutions about industrial and commercial developments.

## Standardisation

The Commonwealth Scientific and Industrial Research Organization has functions concerned with the improvement of efficiency in industrial operations. For further particulars see Chapter 25, Science and Technology, in this Year Book.

The Standards Association of Australia is the organisation responsible for the preparation, on a national basis, of Australian standards for materials and products and standard codes of practice.

Formed as the Australian Commonwealth Engineering Standards Association in 1922, it was reconstituted as the Standards Association of Australia in 1929, and was incorporated by Royal Charter in 1950. It is an independent body having the full recognition and support of the Commonwealth and State Governments and of industry. Approximately half its funds are provided by Commonwealth Government grant, the remainder coming primarily from membership subscriptions and from the sale of publications. Organisations, companies, and individuals are eligible for subscribing membership.

The Association is controlled by a Council comprising representatives from Commonwealth and State Governments and their departments, from associations of manufacturing and commercial interests, and from professional institutions. Standards are prepared by committees composed of expert representatives from the interests associated with the subject under consideration. This assistance is on a voluntary basis.

Preparation of a standard is undertaken in response to a request from any responsible source, subject to verification that the standard will meet a genuine need. Standards may relate to one or more of several aspects of industrial practice such as terminology, test methods, dimensions, specifications of performance and quality of products, and safety or design codes. In general, standards derive authority from voluntary adoption based on their intrinsic merit, but in many cases where safety of life or property or consumer protection is involved, they may have compulsory application through statutory reference.

The Association is the owner of a registered certification trade mark covering conformity of products to standards. Manufacturers of products covered by Australian standards may obtain a licence to use the Australian Standard Mark, under conditions established by the Association.

The Association has international affiliations and is a member, representing Australia, of the International Organization for Standardization (ISO) and of the International Electrotechnical Commission (IEC). Close links are maintained with overseas standards organisations, and the Association acts as Australian agent for the procurement of ISO and IEC publications and the standards of other countries.

The Association has two specialised libraries, one in Sydney and one in Melbourne, containing the national standards of all countries with standards organisations. These libraries provide necessary material for committee work and a free information service to those concerned with standards.

The headquarters office of the Association is in Sydney, and there is a major branch office in Melbourne. Branch offices are located also in other capital cities and at Newcastle, New South Wales.

The National Standards Commission was established in 1948 and is presently located at North Ryde, Sydney. The original purpose was to advise the Minister for Science and the Environment on matters relating to weights and measures. It operated under the Weights and Measures (National Standards) Act, 1948. This was replaced in 1960 with a new Act which took account of advances in measuring technology and its impact in Australia. Amendments to the 1960 Act were made in 1966 and 1978. The present role of the Commission provides for the establishment and use throughout Australia of uniform units of measurement, uniform standards of measurement of physical quantities and for the examination and approval of the patterns of measuring instruments used for trade in order to control design and quality.

The Commission has close contacts with all States and Territorial weights and measures authorities who ensure by regular inspections that trade instruments continue to comply with the approved patterns.

Close liaison is also maintained with the manufacturing industry, retailers, consumers and other users to ensure a balance between design, quality and cost.

The Commission has regular contacts overseas and provides the Australian member accredited to the International Organisation of Legal Metrology.

The present staff is 28 , most of whom are technically qualified. The Commission is directed by a board of five part-time Commissioners.

The National Association of Testing Authorities (NATA) organises testing facilities throughout Australia to serve private and governmental needs. Membership is open to authorities whose testing laboratories conform to the standards of staffing and operations defined by the Association. Testing
authorities may register their laboratories voluntarily. The Association assesses the competence of the laboratories and ensures that their standards of competence are maintained. Certificates of test issued by registered laboratories may be endorsed in the name of the Association. NATA endorsed test certificates are generally accepted by governmental, industrial and commercial interests.

Laboratories are registered for performance of specific tests in the fields of acoustic and vibration measurement, biological testing, chemical testing, electrical testing, heat and temperature measurement, mechanical testing, metrology, non-destructive testing and optics and photometry.

The Industrial Design Council of Australia (IDCA) is engaged in activities aimed at encouraging better design in Australian-made goods and fostering a wider appreciation of good design throughout the community. The Council is representative of industry, commerce and government, together with designers and educationists. It is financed by donations from industry and commerce, and by Commonwealth and State Government grants.

The Council's Field Advisory Service has a diagnostic and counselling role, assisting smaller manufacturers throughout Australia with product development policy and direction. Field advisers are based in IDCA State offices in Sydney, Melbourne, Brisbane, Adelaide, Perth and Hobart.

The Australian Design Award is granted for high-quality products of Australian design and manufacture. An index of these products is held in each State office. These products are also displayed in Australian Design Centres.

Regular contact is maintained with senior executives of manufacturing companies, departmental officers and designers through the Design Delegate program of lectures. Inquirers seeking professional design services are referred to qualified industrial designers. The Council is also concerned with raising the standard of training in industrial design in co-operation with education authorities.

The Council's National Secretariat is in Melbourne.
The Australian Standard Commodity Classification (ASCC) has been developed by the ABS to enable users to compare statistics of commodities produced in Australia with statistics of commodities imported and exported.

The ASCC manual (1207.0) links production, import and export items at their most detailed level of comparability in the form of standard (ASCC) commodity items. In a large number of cases, however, due to the differences between production, import and export items, comparatibility is only achieved at fairly broad aggregate levels. In the ASCC, commodities are grouped under industries (as defined in the Australian Standard Industrial Classification (ASIC)) in which they are typically produced.

The first edition of the ASCC was restricted to commodities originating in manufacturing industries. The second edition, which relates to the year 1977-78 is to be published in 1980, has been amended to also include commodities originating in the agriculture, forestry, fishing, hunting and mining industries.

The classification will' continue to be developed over the coming years to improve the alignment between production, imports and exports.

The ABS also publishes a statistical publication Comparable Commodity Statistics of Production, Imports and Exports, Australia (1310.0) containing commodity statistics of Australian production, imports and exports based on the standard (ASCC) items contained in the ASCC manual. The second edition of this publication which is to be published in 1980 relates to the year 1977-78 and will contain Australian production, import and export commodity statistics of manufactured goods classified in accordance with the standard (ASCC) items in the second edition of the ASCC manual.

The Australian Standard Industrial Classification (ASIC) (1201.0 and 1202.0) was developed by the ABS as part of its program for the integration of economic statistics. Since its introduction by the ABS in the processing of the 1969 Integrated Economic Censuses, the ASIC has gained a wide acceptance by users of statistics outside the ABS and has been progressively applied in most ABS collections and compilations where data are classified by industry.

The ASIC has been devised for the purpose of classifying statistical units by industry. It has been designed primarily as a system for the classification of establishments (e.g. individual mines, factories, shops, etc.) although it may also be used for classifying other economic units such as enterprises.

The fundamental concept of this classification system is that an industry (i.e. on individual class, group, etc.) in the ASIC is composed of establishments that have been classified to it. Each industry class is defined in terms of the predominant activities of the establishment classifed to it and these activities are specified in the ASIC as primary activities of the individual industry classes. These industry definitions are revised only at relatively infrequent intervals so as to minimise the disruption to time series data assembled on an ASIC basis.
$\therefore$ As a result of a recent comprehensive review of the classification, the 1978 Edition of ASIC has recently been published. This revised edition is being progressively introduced in all relevant ABS collections.

## Productivity Action

For information about the Productivity Group Movement and Productivity Promotion Council of Australia see Chapter 25, Science and Technology.

## Manufacturing industry statistics

## Manufacturing industry statistics from 1901 to 1967-68

A series of substantially uniform statistics exist from 1901 up until 1967-68 when the framework within which manufacturing statistics were collected was changed. The following table contains a summary of statistics on manufacturing activities in Australia over that period. More detailed manufacturing statistics in respect of this period were included in Year Book No. 57, pages 721-9, and in earlier issues.

MANUFACTURING INDUSTRY: AUSTRALIA( $a$ ), 1901 TO 1967-68

| Year | Fac. tories | Employment $(b)$ | Salaries and wages paid(c) | Value of- |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Materials and fuel used | Output | Production <br> (d) | Land and buildings (e) | Plant and machinery <br> (e) |
|  | No. | '000 | \$'000 | \$'000 | \$000 | \$000 | \$000 | \$000 |
| 1901 | 11,143 | 198 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1911 | 14,455 | 312 | 55,056 | 163,526 | 266,044 | 102,518 | 65,402 | 63,032 |
| 1920-21 | 17,113 | 367 | 125,864 | 427,118 | 647,986 | 220,868 | 121,662 | 137,310 |
| 1930-31 | 21,751 | 339 | 124,910 | 344,978 | 581,598 | 236,620 | 224,422 | 248,996 |
| 1940-41 | 27,300 | 650 | 275,838 | 773,762 | 1,289,590 | 515,828 | 288,188 | 322,712 |
| 1950-51 | 43,147 | 969 | 983,436 | 2,613,926 | 4,301,670 | 1,687,744 | 605,570 | 673,230 |
| 1960-61 | 57,782 | 1,145 | 2,289,230 | 6,115,930 | 10,465,765 | 4,349,835 | 2,389,140 | 2,785,565 |
| 1963-64 | 59,375 | 1,210 | 2,651,620 | 7,372,682 | 12,642,686 | 5,270,003 | 3,204,685 | 3,480,673 |
| 1964-65 | 61,042 | 1,269 | 2,993,709 | 8,140,600 | 14,037,355 | 5,896,754 | 3,505,859 | 3,766,253 |
| 1965-66 | 61,686 | 1,294 | 3,162,769 | 8,437,958 | 14,689,819 | 6,251,861 | 3,776,590 | 4,154,652 |
| 1966-67 | 62,500 | 1,309 | 3,407,683 | 9,015,844 | 15,892,845 | 6,877,001 | 4,061,193 | 4,706,843 |
| 1967-68 | 62,954 | 1,331 | 3,665,902 | 9,663,217 | 17,094,070 | 7,430,853 | 4,303,156 | 4,962,203 |

(a) Before I July 1964, excludes Northern Territory and Australian Capital Territory. (b) 1901 and 1911-average employment during period of operation. Later years relate to average employment over whole year. Working proprietors are included in all years. (c) Excludes amounts drawn by working proprietors. (d) Value added in process of manufacture (i.e. value of output less value of materials and fuel, etc. used). (e) Depreciated or book values at 30 June. Includes estimated values of rented premises and machinery.

## Manufacturing industry statistics from 1968-69

As from the year ended June 1969, the Censuses of Manufacturing, Electricity and Gas have been conducted within the framework of the integrated economic censuses which include the Censuses of Mining, Retail Trade and Selected Services, and Wholesale Trade. As a result, manufacturing industry statistics for 1968-69 and subsequent years are not directly comparable with previous years.

The standardisation of census units in the integration of economic censuses means that the basic census unit (the establishment), in general, now covers all the operations carried on under the one ownership at a single physical location. The manufacturing establishment is thus one predominantly engaged in manufacturing, but the data supplied for it now cover (with a few exceptions) all activities at the location. The establishment statistics also include data relating to separately located administrative offices and ancillary units serving the establishment and forming part of the business (enterprise) which owns and operates the establishment.

Census units were classified to industry according to the Australian Standard Industrial Classification (ASIC), described in the Bureau publication Australian Standard Industrial Classification. The ASIC defines the industries in the economy for statistical purposes, thus permitting the scope of the different economic censuses to be specified without gaps or overlapping between them. It also sets out standard rules for identifying the statistical units (e.g. establishments) and for coding them to the industries of the classification. This classification is broadly convertible to the International Standard Industrial Classification adopted by the United Nations Statistical Commission. The adoption of the ASIC has resulted in changes in scope between the integrated economic censuses introduced in 1968-69 and the individual economic censuses conducted in previous years.

In the 1967-68 census there were approximately 62,600 manufacturing establishments (excluding electricity and gas establishments) with employment of $1,276,000$. Of these, approximately 35,400 , with employment of $1,097,000$ would have been included in the 1967-68 census if ASIC had been used.

## MANUFACTURING ESTABLISHMENTS: SUMMARY OF OPERATIONS, AUSTRALIA, 1968-69 to

 1977-78| Census year | Establishments |  | Average employment over whole year (a) |  | Wages and salaries$\qquad$ | Turnover | $\left.$StocksPurchases, <br> transfers <br> in and <br> selected \right\rvert\, |  |  | Rent and Value leasing added expenses |  | Fixed capital expend. iture less disposals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 30 June | Males | Females | Persons |  |  |  |  |  |  |  |  |
|  | No. | No. | No. | No. | Sm | \$m | \$m | Sm | \$m | \$m | Sm | \$m |
| 1968-69 | 35,939 | 927,211 | 334,066 | 1,261,277 | 3,908.1 | $18,646.5$ | 3,102.5 | 3,319.6 | 11,395.2 | 7,468.5 | 119.7 | 903.0 |
| 1969-70 | 35,674 | 950,055 | 345,578 | 1,295,633 | 4,328.7 | 20,687.6 | 3,322.8 | 3,634.7 | 12,722.9 | 8,276.5 | 139.4 | 1,030.7 |
| 1970-71 |  |  |  | No manufac | cturing cen | nsus was 00 | aducted in | respect of | this year. |  |  |  |
| 1971-72 | 36,206 | 953,967 | 347,672 | 1,301,639 | $5,250.0$ | 23,620.4 | 3,920.1 | 4,182.5 | 14,186.3 | 9,696.6 | 188.5 | 1,297.8 |
| 1972-73 | 36,437 | 951,610 | 345,485 | 1,297,095 | 5,820.0 | 26,352.4 | 4,187.2 | 4,306.3 | 15,745.6 | 10,725.9 | 217.4 | 1,244.4 |
| 1973-74 | 37,143 | 969,338 | 369,041 | 1,338,379 | 7,176.4 | 31,246.7 | 4,299.1 | 5,268.5 | 19,067.0 | 13,149.1 | 262.8 | 1,215.5 |
| 1974-75(c) | 36,836 | 931,367 | 333,440 | 1,264,807 | 8,588.0 | 35,468.0 | 5,267.2 | 6,572.2 | 21,382.7 | 15,390.3 | 329.6 | 1,456.4 |
| 1974-75(d) | 26,973 | 916,896 | 328,341 | 1,245,237 | 8,533.5 | 35,133.7 | 5,241.0 | 6,542.7 | 21,203.8 | 15,231.6 | 318.5 | 1,445.9 |
| 1975-76 | 27,507 | 888,523 | 311,917 | 1,200,440 | 9,472.4 | 39,485.3 | 6,581.1 | 7,023.3 | 23,006.5 | 16,921.0 | 365.2 | 1,451.7 |
| 1976-77 | 26,780 | 876,111 | 299,720 | 1,175,831 | 10,535.8 | 44,814.3 | 6,985.1 | 7,996.8 | 26,591.8 | 19,234.3 | 418.2 | 1,548.0 |
| 1977-78(e) | 25,996 | 855,567 | 290,390 | 1,145,957 | 11,150.9 | 48,184.1 | 7,889.2 | 8,511.5 | 28,574.4 | 20,231.9 | 492.1 | 1,872.9 |
| 1977-78(f) | 26,064 | 854,180 | 290,378 | 1,144,558 | 11,137.8 | 48,081.2 | 7,863.8 | 8,500.1 | 28,486.0 | 20,231.4 | 493.3 | 1,880.2 |

(a) Including working proprietors. (b) Excluding the drawings of working proprietors. (c) This data and that of previous years includes the data of all manufacturing establishments. (d) These data and those of following years exclude single establishment manufacturing enterprises with fewer than four persons employed. (e) These data and those of previous years are classified to the 1969 (preliminary) edition of ASIC. ( $f$ ) These data are classified to the 1978 edition of ASIC.

The items of data on the census forms were standardised for all census sectors, which has meant changes in the content of the statistics. For example, the value of 'turnover' is now collected instead of the 'value of output' at the factory, and purchases and selected expenses are collected as well as the value of specified materials, fuels, etc., used. However the underlying concept of 'value added', is similar to the former concept 'value of production', even though its method of derivation is different.

Even though the concept of 'value added' is similar to 'value of production', direct comparison of 1968-69 and previous figures is not possible because of the change in census units already mentioned which has resulted in the 'value added' for the whole establishment being reported, not merely the 'value added' for the manufacturing process. Comparison is also affected, of course, by the change in the scope of the manufacturing census due to the adoption of ASIC. In addition, 'value added' as calculated for the Manufacturing Census differs from the concept used in National Accounts where the concept of 'value added' also excludes some administrative expenses and sundry charges and the change in stocks component is measured by valuing the physical change in stocks at current prices. It is not practicable in the Manufacturing Census to collect data fully in accord with the national accounts concept of 'value added'.

For a more detailed description of the Integrated Economic Censuses reference should be made to Year Book No. 56, Chapter 31.

Since the introduction of the system of integrated economic censuses the comparability of manufacturing census data has been affected by two additional changes to collection practices:
(i) Commencing with the 1975-76 Manufacturing Census, only a limited range of data (i.e. employment and wages and salaries) is collected from single establishment manufacturing enterprises with less than four persons employed. This procedure significantly reduced both the statistical reporting obligations of small businesses and the collecting and processing costs of the Australian Bureau of Statistics without affecting the reliability of information for the evaluation of trends in the manufacturing sector of the economy (as these small enterprises contribute only marginally to statistical aggregates. In order to provide a link with past and future years, 1974-75 data was processed on both bases.
(ii) Commencing with the 1977-78 census the classification of census units to industry is based on the 1978 edition of the ASIC which replaces the 1969 preliminary edition in use since the 1968-69 census. In general the impact of the change in industrial classification is minimal at the ASIC Division and Subdivision levels. A document fully describing the differences between the 1969 and 1978 editions of the ASIC is available on request from the Australian Bureau of Statistics.

## Multi-establishment enterprises and single establishment manufacturing enterprises with four or more persons employed

Main structural aggregates relating to number of establishments, employment, wages and salaries, turnover, purchases, transfers in and selected expenses, stocks, and value added are shown in the following tables. Further detailed statistics are contained in the following ABS statistical publications: Manufacturing Establishments, Details of Operations by Industry Class, Australia (8203.0), Manufacturing Establishments, Summary of Operations by Industry Class, Australia (8202.0) and Manufacturing Establishments: Selected Items of Data Classified by Industry and Employment Size, Australia (8204.0).

## Summary of operations

The following table shows the summary of operations for manufacturing establishments.
MANUFACTURING ESTABLISHMENTS-SUMMARY OF OPERATIONS BY INDUSTRY SUB-DIVISION: AUSTRALIA 1976-77 AND 1977-78

| Industry sub-division |  | Establishments operaing at 30 June No. | Average employment over whole year <br> (a) |  |  | Wages and salaries (b) Sm | $\begin{gathered} \text { Turn.- } \\ \text { over } \\ \mathrm{Sm} \end{gathered}$ | Slocks ar 30 June |  | Purchases. uransfers in and selected expenses \$m | Value added \$m |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AS/C code | description |  | Moles No. | Females No. | Persons No. |  |  | Opening sm | $\underset{\$ m}{\text { Closing }}$ |  |  |  |  |
| 1976-77(c) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21-2 | Food, beverages and tobacco | 3,382 | 144,401 | 51.480 | 195,881 | 1,757 | 9,652 | 1.048 | 1.175 | 6,277 | 3,502 | 67 | 384 |
| 23 | Textiles | 667 | 22,247 | 16.938 | 39,185 | 324 | 1,393 | 268 | 278 | 840 | 563 | 13 | 26 |
| 24 | Clothing and footwear | 2.301 | 19,294 | 64,726 | 84,020 | 581 | 1,824 | 289 | 310 | 951 | 894 | 24 | 15 |
| 25 | Wood, wood products and furniture | 3,956 | 66,580 | 11,303 | 77,883 | 603 | 2,349 | 304 | 352 | 1,280 | 1.118 | 34 | 82 |
| 26 | Paper and paper products, printing | 2,603 | 71,550 | 25.835 | 97.385 | 910 | 3,134 | 364 | 432 | 1,587 | 1,614 | 40 | 114 |
| 27 | Chemical petroleum and coal products | 912 | 44,522 | 15.907 | 60.429 | 640 | 3,663 | 588 | 681 | 2,291 | 1,465 | 22 | 171 |
| 28 | Non-metallic mineral products | 1.535 | 42,696 | 4.900 | 47,596 | 487 | 2,036 | 246 | 310 | 1,100 | 999 | 15 | 100 |
| 29 | Basic metal products | 549 | 87,171 | 6,723 | 93,894 | 994 | 5,626 | 1,112 | 1,293 | 3.828 | 1,978 | 48 | 249 |
| 31 | Fabricated metal products | 3,901 | 82,539 | 20.274 | 102,813 | 882 | 3,237 | 506 | 562 | 1,753 | 1,541 | 44 | 79 |
| 32 | Transport equipment | 1,285 | 126.047 | 17,184 | 143,231 | 1,309 | 4,709 | 771 | 972 | 2,785 | 2.126 | 25 | 140 |
| 33 | Other machinery and equipment | 3.682 | 125.957 | 42.243 | 168,200 | 1,491 | 5.078 | 1.170 | 1.276 | 2,740 | 2.444 | 58 | 124 |
| 34 | Miscellaneous manufacturing <br> Total manufacturing | $\begin{array}{r} 2,007 \\ 26,780 \end{array}$ | 43,107 876,111 | $\begin{array}{r} 22.207 \\ 299.720 \end{array}$ | $\begin{array}{r} 65.314 \\ 175021 \end{array}$ | $\begin{array}{r} 558 \\ 10.536 \end{array}$ | 2,118 44,818 | $\begin{array}{r} 320 \\ 6.985 \end{array}$ | $\begin{array}{r} 358 \\ 7.997 \end{array}$ | $\begin{array}{r} 1.160 \\ 26.596 \end{array}$ | $\begin{array}{r} 990 \\ \mathbf{1 9 , 2 3 4} \end{array}$ | 30 418 | 64 1.548 |
|  | Total manufacturing |  |  | $299,720$ | $1,175,831$ | $10,536$ | 44,818 | $6,985$ | $7,997$ | 26,596 | 19,234 |  | 1,548 |
| 1977-78(c) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21-2 | Food, beverages and tobacco | 3,272 | 143,713 | 50,405 | 194,118 | 1,878 | 10.705 | 1,168 | 1,298 | 7,082 | 3,754 | 78 | 409 |
| 23 | Textiles | 642 | 21,090 | 16,176 | 37.266 | 337 | 1.457 | 272 | 277 | 876 | 585 | 15 | 27 |
| 24 | Clothing and footwear | 2.137 | 19,189 | 61.809 | 80,998 | 613 | 1,978 | 305 | 329 | 1,036 | 967 | 26 | 20 |
|  | Wood, wood products and furniture | 3,747 | 64.156 | 11.304 | 75.460 | 622 | 2,436 | 338 | 354 | 1,321 | 1.131 | 39 | 53 |
| 26 | Paper and paper products, printing | 2,572 | 71,147 | 26,091 | 97.238 | 1,005 | 3,498 | 420 | 437 | 1,751 | 1,763 | 44 | 133 |
| 27 | Chemical, petroleum and coal products | 897 | 45,372 | 16,072 | 61,444 | 717 | 4,147 | 690 | 782 | 2,551 | 1,690 | 29 | 347 |
| 28 | Non-metallic mineral products | 1,573 | 41,587 | 4,936 | 46,523 | 515 | 2,160 | 307 | 354 | 1,169 | 1,038 | 20 | 131 |
| 2931 | Basic metal products | 539 | 85.168 | 6.503 | 91,671 | 1.090 | 5,851 | 1.291 | 1,415 | 4.006 | 1.970 | 55 | 272 |
|  | Fabricated metal products | 3.802 | 81.485 | 20.083 | 101.568 | 923 | 3,514 | 561 | 612 | 1.922 | 1.643 | 51 | 71 |
| 32 | Transport equipment | 1.250 | 119.605 | 15,487 | 135,092 | 1,350 | 4.858 | 942 | 956 | 2,840 | 2.032 | 29 | 189 |
|  | Other machinery and equipment | 3.565 | 120,904 | 39,880 | 160,784 | 1.537 | 5.287 | 1,224 | 1,314 | 2,780 | 2,598 | 70 | 136 |
| 34 | Miscellaneous manufacturing | 2.001 | 42,178 | 21,662 | 63.840 | 566 | 2,303 | 362 | 385 | 1.262 | 1,064 | 36 | 83 |
|  | Total manufacturing | 25,997 | 855,594 | 290.408 | 1,146,002 | 11.152 | 48.195 | 7.880 | 8,513 | 28,595 | 20,235 | 492 | 1,874 |

[^0]
## MANUFACTURING ESTABLISHMENTS-SUMMARY OF OPERATIONS BY INDUSTRY SUB-DIVISION: AUSTRALIA 1976-77 AND 1977-78-continued

| Industry sub-division |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(a) Includes working proprietors. (b) Excludes the drawings of working proprietors. (c) Based on 1969 edition of ASIC. (see page 442).
(d) Based on 1978 edition of ASIC. (see page 442).

## Employment

The statistics on the number of persons employed shown in the following table relate to the average whole year employment, including working proprietors and those persons working at separately located administrative offices and ancillary units in the State.

It should be noted that persons employed in each State (and their wages and salaries) relate to those employed at establishments, administrative offices or ancillary units located in that State, even though the administrative offices or ancillary units may have served establishments located in another State.

MANUFACTURING ESTABLISHMENTS-MALES, FEMALES AND PERSONS EMPLOYED BY
INDUSTRY SUB-DIVISION, 1977-78 $(a)$, AND TOTAL MANUFACTURING 1976-77, 1977-78( $b$ )

| Industry sub-division |  | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { ASIC } \\ & \text { code } \end{aligned}$ | Description |  |  |  |  |  |  |  |  |  |
| MALES EMPLOYED |  |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 46,241 | 42,425 | 28,239 | 12,777 | 9,581 | 4,209 | 183 | 343 | 143,998 |
| 23 | Textiles . . . . . | 6,119 | 11,238 | 640 | 1,458 | 477 | 1,089 | - | - | 21,021 |
| 24 | Clothing and footwear | 5,889 | 11,231 | 768 | 1,008 | 239 | 68 | - | - | 19,203 |
| 25 | Wood, wood products and furniture | 20,582 | 16,120 | 9,563 | 7,258 | 6,320 | 3,673 | 64 | 336 | 63,916 |
| 26 | Paper, paper products, printing and publishing | 25,845 | 23,300 | 6,903 | 5,378 | 4,068 | 4,676 | 86 | 861 | 71,117 |
| 27 | Chemical, petroleum and coal products | 20,565 | 15,874 | 2,917 | 2,328 | 2,800 | n.p. |  |  | [45,649 |
| 28 | Non-metallic mineral products | 14,932 | 11,177 | 5,795 | 3,746 | 4,588 | 880 | 752 | 181 | $\{41,412$ |
| 29 | Basic metal products. | 48,539 | 11,205 | 5,360 | 8,438 | 4,971 | 3,162 |  |  | (82,313 |
| 31 | Fabricated metal products | 30,076 | 28,097 | 8,841 | 7,108 | 6,996 | 1,378 | 113 | 368 | 82,977 |
| 32 | Transpor equipment | 32,863 | 49,775 | 10,622 | 20,158 | 5,581 | n.p. |  |  | 119,550 |
| 33 | Other machinery and equipment | 51,271 | 41,605 | 7,975 | 12,464 | 6,321 | 842 | 82 | 153 | $\{120,684$ |
| 34 | Miscellaneous manufacturing | 15,346 | 18,681 | 2,690 | 3,870 | 1,394 | 349 ) |  |  | [42,340 |
| Totalmanufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 318,268 | 280,728 | 90,313 | 85,991 | 53,336 | 22,022 | 1,280 | 2,242 | 854,180 |
|  | 1977-78(b) | 319,172 | 280,489 | 90,485 | 86,097 | 53,596 | 22,177 | 1,280 | 2,298 | 855,594 |
|  | 1976-77(b) | 325,159 | 288,743 | 90,975 | 89,917 | 54,337 | 23,042 | 1,369 | 2,569 | 876,111 |

MANUFACTURING ESTABLISHMENTS-MALES, FEMALES AND PERSONS EMPLOYED BY INDUSTRY SUB-DIVISION, 1977-78(a), AND TOTAL MANUFACTURING 1976-77, 1977-78(b)-continued

| Industry sub-division |  | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { ASIC } \\ & \text { code } \end{aligned}$ | Description |  |  |  |  |  |  |  |  |  |
| FEMALES EMPLOYED |  |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacoo | 16,395 | 15,809 | 7,546 | 5,445 | 4,053 | 1,923 | 53 | 116 | 51,340 |
| 23 | Texiles | 4,818 | 8,222 | 612 | 1,034 | 287 | 1,187 | - | - | 16,160 |
| 24 | Clothing and footwear | 21,024 | 33,781 | 3,140 | 2,616 | 1,189 | 160 | - | - | 61,910 |
| 25 | Wood, wood products and fumiture | 3,807 | 2,969 | 1,727 | 1,226 | 1,178 | 258 | 9 | 53 | 11,227 |
| 26 | Paper, paper products, printing and publishing | 10,853 | 8,354 | 2,249 | 1,891 | 1,638 | 690 | 37 | 315 | 26,027 |
| 27 | Chemical, petroleum and coal products | 9,263 | 5,300 | 580 | 475 | 391 | np |  |  | [16,082 |
| 28 | Non-metallic mineral products | 1,895 | 1,773 | 426 | 353 | 390 | 62 | 90 | 15 | [4,926 |
| 29 | Basic metal products . . . | 3,420 | 1,270 | 297 | 736 | 333 | 114 |  |  | [6,248 |
| 31 | Fabricated metal products | 7,940 | 7,174 | 2,018 | 1,687 | 1,202 | 199 | 28 | 76 | 20,324 |
| 32 | Transport equipment | 3,350 | 8,982 | 606 | 2,069 | 285 | n.p. |  |  | [ 15,421 |
| 33 | Other machinery and equipment | 18,966 | 13,815 | 1,168 | 4,641 | 941 | 99 | 1 | 51 | $\{39,675$ |
| 34 | Miscellaneous manvfacturing | 9,003 | 8,572 | 1,027 | 1,862 | 517 | 52 |  |  | 21,038 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 110,734 | 116,021 | 21,396 | 24,035 | 12,404 | 4,944 | 218 | 626 | 290,378 |
|  | 1977-78(b) | 111,499 | 115,788 | 21,395 | 23,754 | 12,204 | 4,851 | 218 | 699 | 290,408 |
|  | 1976-77(b) | 113,737 | 120,453 | 21,782 | 25.477 | 12,413 | 4,724 | 255 | 879 | 299,720 |
| PERSONS EMPLOYED |  |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 62,636 | 58,234 | 35,785 | 18.222 | 13,634 | 6,132 | 236 | 459 | 195,338 |
| 23 | Textiles . . | 10,937 | 19,460 | 1,252 | 2,492 | 764 | 2,276 | - | - - | 37,181 |
| 24 | Clothing and footwear | 36.913 | 45.012 | 3.908 | 3,624 | 1,428 | 228 | - | - | 81,113 |
| 25 | Wood, wood products and furniture | 24,389 | 19,089 | 11,290 | 8,484 | 7,498 | 3,931 | 73 | 389 | 75,143 |
| 26 | Paper, paper products, printing and publishing | 36,698 | 31,654 | 9,152 | 7,269 | 5,706 | 5,366 | 123 | 1.176 | 97,144 |
| 27 | Chemical, petroleum and coal products | 29,828 | 21,174 | 3.497 | 2,803 | 3.191 | n.p. |  |  | 61,731 |
| 28 | Non-metallic mineral products | 16,827 | 12.950 | 6.221 | 4.099 | 4.978 | 942 | 842 | 196 | 46,338 |
| 29 | Basic metal products | 51.959 | 12.475 | 5.657 | 9,174 | 5.304 | 3.276 |  |  | 88,561 |
| 31 | Fabricated metal products | 38,016 | 35,271 | 10,859 | 8.795 | 8,198 | 1.577 | 141 | 444 | 103.301 |
| 32 | Transport equipment | 36,213 | 58,757 | 11,228 | 22,227 | 5,866 | n.p. |  |  | 134,971 |
| 33 | Other machinery and equipment | 70,237 | 55,420 | 9,143 | 17.105 | 7.262 | 941 | 83 | 204 | 160.359 |
| 34 | Miscellaneous manufacturing . | 24,349 | 27,253 | 3,717 | 5,732 | 1,911 | 401 |  |  | 63,378 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 429.002 | 396,749 | 111,709 | 110,026 | 65,740 | 26,966 | 1,498 | 2,868 | 1,144,558 |
|  | 1977-78(b) | 430.671 | 396,277 | 111.880 | 109.851 | 65.800 | 27,028. | 1.498 | 2.997 | 1,146,002 |
|  | 1976-77(b) | 438,896 | 409,196 | 112.757 | 115,394 | 66.750 | 27,766 | 1,624 | 3,448 | 1,175,831 |

(a) Based on 1978 edition of ASIC (see page 442). (b) Based on 1969 edition of ASIC (see page 442).

## Wages and salaries

The following table shows wages and salaries of all employees of manufacturing establishments including those working at separately located administrative offices and ancillary units in the State. Drawings of working proprietors are not included.

| Industry sub-division |  | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASIC code | Description |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 631 | 571 | 342 | 155 | 128 | 49 | 2 | 5 | 1,884 |
| 23 | Textiles . . . . . | 102 | 176 | 10 | 23 | 7 | 19 | - | - | 337 |
| 24 | Clothing and footwear . . . . | 205 | 343 | 27 | 29 | 9 | 1 | - | - | 614 |
| 25 | Wood, wood products and furniture | 209 | 157 | 86 | 70 | 60 | 35 | 1 | 4 | 621 |
| 26 | Paper, paper products, printing and publishing | 385 | 336 | 86 | 71 | 54 | 58 | 1 | 13 | 1,005 |
| 27 | Chemical, perroleum and coal products | 347 | 249 | 39 | 32 | 39 | n.p.) |  |  | $\{720$ |
| 28 | Non-metallic mineral products. | 192 | 145 | 67 | 43 | 51 | 10 \} | 11 | 2 | \{ 513 |
| 29 | Basic metal products . . | 622 | 149 | 66 | 97 | 67 | 39 |  |  | 1,050 |
| 31 | Fabricated metal products | 348 | 333 | 93 | 75 | 74 | 13 | 1 | 4 | 941 |
| 32 | Transport equipment . | 377 | 590 | 105 | 215 | 56 | n.p. |  |  | $\{1,350$ |
| 33 | Other machinery and equipment | 682 | 533 | 84 | 155 | 69 | 8 \% | 1 | 2 | $\{1,533$ |
| 34 | Miscellaneous manufacturing . | 221 | 249 | 30 | 51 | 16 | 4 |  |  | [571 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 4,322 | 3,831 | 1,035 | 1,015 | 629 | 258 | 18 | 30 | 11,138 |
|  | 1977-78(b) | 4,324 | 3,829 | 1,036 | 1,016 | 639 | 260 | 18 | 30 | 11,152 |
|  | 1976-77(b) | 4,027 | 3,656 | 982 | 981 | 595 | 246 | 18 | 31 | 10,536 |

(a) Based on 1978 edition of ASIC (see page 442). (b) Based on 1969 edition of ASIC ( see page 442)

## Turnover

The following table shows the value of turnover of manufacturing establishments. The figures include sales of goods whether produced by the establishment or not, transfers out of goods to other establishments of the same enterprise; bounties and subsidies on production; plus all other operating revenue from outside the enterprise, such as commission, repair and service revenue and the value of capital work done on own account. Rents, leasing revenue, interest (other than hire purchase), royalties and receipts from the sale of fixed tangible assets are excluded.

## MANUFACTURING ESTABLISHMENTS-TURNOVER, BY INDUSTRY SUB-DIVISION, 1977-78 (a)AND TOTAL MANUFACTURING 1976-77, 1977-78 (b) <br> ( $\$$ million)

| Industry sub-division |  | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASIC code | Description |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 3,407 | 3,477 | 2,019 | 830 | 748 | 318 | 12 | 14 | 10,825 |
| 23 | Textiles . . . . . . | 495 | 710 | 38 | 97 | 28 | 74 | - | - | 1,442 |
| 24 | Clothing and footwear . | 727 | 1,073 | 72 | 84 | 20 | 4 | - | - | 1,980 |
| 25 | Wood, wood products and furniture | 822 | 618 | 316 | 279 | 221 | 159 | 3 | 13 | 2,431 |
| 26 | Paper, paper products, printing and publishing | 1,356 | 1,165 | 286 | 243 | 167 | 226 | 4 | 34 | 3,481 |
| 27 | Chemical, petroleum and coal products | 1,994 | 1,216 | 493 | 157 | 224 | n.p. 7 |  |  | $\left\{\begin{array}{l}4,154 \\ 2\end{array}\right.$ |
| 28 | Non-metallic mineral products | 730 | 586 | 318 | 199 | 249 | 47 \} | 116 | 18 | $\{2,155$ |
| 29 | Basic metal products | 2,726 | 773 | 634 | 428 | 611 | 238 |  |  | -5,518 |
| 31 | Fabricated metal products | 1,334 | 1,196 | 410 | 308 | 313 | 52 | 8 | 14 | 3,635 |
| 32 | Transport equipment . | 1,097 | 2,440 | 494 | 671 | 135 | n.p.) |  |  | [4,858 |
| 33 | Other machinery and equipment | 2,331 | 1,886 | 304 | 486 | 233 | 23 \} | 3 | 6 | $\{5,271$ |
| 34 | Miscellaneous manufacturing | 887 | 1,032 | 137 | 186 | 75 | 15 |  |  | (2,333 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 17,906 | 16,171 | 5,524 | 3,967 | 3,023 | 1,246 | 145 | 99 | 48,081 |
|  | 1977-78(b) | 17,912 | 16,170 | 5,529 | 3,983 | 3,080 | 1,277 | 145 | 99 | 48,195 |
|  | 1976-77(b) | 16,433 | 15,040 | 5,261 | 3,768 | 2,888 | 1,199 | 124 | 104 | 44,818 |

(a) Based on 1978 edition of ASIC ( see page 442 ).
(b) Based on 1969 edition of ASIC (see page 442)

## Purchases, transfers in and selected expenses

The following table gives details of the value of purchases, transfers in and selected expenses. Figures include purchases of materials, fuel, power; containers, etc., plus transfers in of goods from other establishments of the enterprise, plus charges for commission and sub-contract work, repair and maintenance expenses, outward freight and cartage, motor vehicle running expenses and sales commission payments.

MANUFACTURING ESTABLISHMENTS-PURCHASES, TRANSFERS IN AND SELECTED EXPENSES, BY INDUSTRY SUB-DIVISION, 1977-78(a) AND TOTAL MANUFACTURING 1976-77, 1977-78(b) ( S million)

| Industry sub-division |  | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASIC code | Description |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 2,254 | 2,339 | 1,344 | 531 | 504 | 201 | 6 | 6 | 7,186 |
| 23 | Textiles . | 303 | 420 | 22 | 65 | 17 | 38 | - | - | 864 |
| 24 | Clothing and footwear . . . | 409 | 551 | 31 | 37 | 7 | 2 | - | - | 1,037 |
| 25 | Wood, wood products and fumiture | 438 | 335 | 167 | 166 | 117 | 88 | 2 | 6 | 1,319 |
| 26 | Paper, paper products, printing and publishing | 675 | 604 | 143 | 115 | 74 | 111 | 1 | 12 | 1,735 |
| 27 | Chemical, petroleum and coal products | 1,156 | 723 | 398 | 96 | 137 | n.p. |  |  | 2,549 |
| 28 | Non-metallic mineral products | 392 | 299 | 179 | 108 | 137 | 31 \} | 76 | 13 | $\{1,166$ |
| 29 | Basic metal products | 1,730 | 486 | 448 | 299 | 532 | 173 |  |  | 3,736 |
| 31 | Fabricated metal products | 728 | 240 | 238 | 178 | 182 | 30 | 5 | 7 | 2,006 |
| 32 | Transport equipment . | 541 | 1,510 | 294 | 429 | 57 | n.p. |  |  | [ 2,840 |
| 33 | Other machinery and equipment | 1,214 | 1,005 | 162 | 250 | 125 | $11\}$ | 1 | 2 | $\{2,769$ |
| 34 | Miscellaneous manufacturing | 484 | 561 | 78 | 99 | 46 | 11 ] |  |  | (1,279 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 10.322 | 9,473 | 3,503 | 2,373 | 1,937 | 742 | 91 | 46 | 28,486 |
|  | 1977-78(b) | 10,324 | 9,476 | 3,506 | 2.393 | 2,000 | 758 | 91 | 46 | 28,593 |
|  | 1976-77(b) | 9.599 | 8,696 | 3,382 | 2,280 | 1,809 | 694 | 84 | 47 | 26.592 |

(a) Based on 1978 edition of ASIC (see page 442).
(b) Based on 1969 edition of ASIC (see page 442).

## Stocks

Statistics on the value of opening and closing stocks at 30 June are shown in the following table. Figures included all the stocks of materials, fuels, etc., and finished goods and work-in-progress of the establishment whether located at the establishment or elsewhere.

MANUFACTURING ESTABLISHMENTS-OPENING AND CLOSING STOCKS BY INDUSTRY
SUB-DIVISION, 1977-78(a) AND TOTAL MANUFACTURING 1976-77, 1977-78(b) ( S million)

| Industry sub-division |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASIC code | Description | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T | A.C.T. | Aust. |
| OPENING STOCKS AT 3\% JUNE |  |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 381 | 407 | 124 | 173 | 50 | 40 | 1 | - | 1,176 |
| 23 | Textiles . . . . . | 92 | 141 | 8 | 14 | 4 | 13 | - | - | 272 |
| 24 | Clothing and footwear | 103 | 169 | 13 | 18 | 2 | - | - | - | 306 |
| 25 | Wood, wood products and furniture | 106 | 82 | 42 | 48 | 27 | 31 | - | 1 | 338 |
| 26 | Paper, paper products, printing and publishing | 163 | 145 | 33 | 25 | 19 | 31 | - | 3 | 420 |
| 27 | Chemical, petroleum and coal products | 374 | 202 | 53 | 17 | 35 | n.p. |  |  | \{ 694 |
| 28 | Non-metallic mineral products | 125 | 73 | 44 | 26 | 32 | 5 | 42 | 1 | $\{306$ |
| 29 | Basic metal products . . | 620 | 152 | 111 | 111 | 133 | 71 |  |  | (1,240 |
| 31 | Fabricated metal products | 204 | 215 | 58 | 53 | 42 | 8 | 2 | 3 | 585 |
| 32 | Transport equipment . | 199 | 462 | 101 | 159 | 17 |  |  |  | [ 942 |
| 33 | Other machinery and equipment | 524 | 473 | 68 | 108 | 44 | 3 | - | 1 | $\{1222$ |
| 34 | Miscellaneous manufacturing . | 134 | 176 | 18 | 25 | 8 | 3 ) |  |  | 365 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 3,026 | 2.696 | 674 | 779 | 411 | 224 | 45 | 9 | 7,864 |
|  | 1977-78(b) | 3,027 | 2,696 | 674 | 784 | 415 | 229 | 45 | 9 | 7,880 |
|  | 1976-77(b) . | 2,672 | 2,451 | 579 | 680 | 352 | 204 | 35 | 11 | 6,985 |

[^1]MANUFACTURING ESTABLISHMENTS-PURCHASES, TRANSFERS IN AND SELECTED EXPENSES, BY INDUSTRY SUB-DIVISION, 1977-78(a) AND TOTAL MANUFACTURING 1976-77, 1977-78(b)-continued (\$ million)

| Industry sub-division |  | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T | A.C.T. | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASIC code | Description |  |  |  |  |  |  |  |  |  |
| CLOSING STOCKS AT 30 JUNE |  |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 416 | 464 | 141 | 189 | 55 | 38 | 1 | - | 1,305 |
| 23 | Texuiles . . . . . . | 83 | 144 | 10 | 18 | 5 | 15 | - | - | 276 |
| 24 | Clothing and footwear . . . | 109 | 187 | 14 | 18 | 2 | - | - | - | 330 |
| 25 | Wood, wood products and furniture | 108 | 85 | 46 | 47 | 33 | 33 | - | 1 | 354 |
| 26 | Paper, paper products, printing and publishing | 167 | 160 | 37 | 26 | 19 | 24 | - | 3 | 436 |
| 27 | Chemical, petroleum and coal products | 411 | 232 | 73 | 18 | 38 |  |  |  |  |
| 28 | Non-metallic mineral products . | 131 | 91 | 52 | 30 | 41 | 7 7 | 43 | 1 | $\left\{\begin{array}{r}353 \\ \hline\end{array}\right.$ |
| 29 | Basic metal products . . | 640 | 139 | 132 | 131 | 218 | 65 |  |  | -1,366 |
| 31 | Fabricated metal products | 231 | 226 | 60 | 60 | 47 | 9 | 2 | 3 | 638 |
| 32 | Transport equipment . | 193 | 478 | 92 | 174 | 16 | n.p. $\}$ |  |  | $\left\{\begin{array}{l}956 \\ 1\end{array}\right.$ |
| 33 | Other machinery and equipment | 558 | 515 | 68 | 115 | 50 | 4 \} | - | 1 | \{1,312 |
| 34 | Miscellaneous manufacturing . | 146 | 178 | 18 | 30 | 9 | 6 |  |  | ( 387 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) . | 3.193 | 2.899 | 743 | 857 | 533 | 218 | 47 | 10 | 8.500 |
|  | 1977-78(b) | 3,194 | 2,898 | 744 | 862 | 533 | 224 | 47 | 11 | 8,513 |
|  | 1976-77(b) . | 3,057 | 2.744 | 691 | 789 | 430 | 232 | 42 | 11 | 7.997 |

(a) Based on 1978 edition of ASIC (see page 442)
(b) Based on 1969 edition of ASIC ( see page 442).

## Value added

The statistics on 'value added' contained in the following table have been calculated by adding to the value of turnover the increase (or deducting the decrease) in the value of stocks, and deducting the value of purchasers, transfers in and selected expenses. A more detailed description of the method of deriving 'value added' is given on page 442.

MANUFACTURING ESTABLISHMENTS-VALUE ADDED, BY INDUSTRY SUB-DIVISION, 1977-78( $a$ ) AND TOTAL MANUFACTURING, 1976-77, 1977-78(b) (\$ million)

| Indusiry sub-division |  | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Ausl. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASIC code | Description |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 1,189 | 1.195 | 691 | 315 | 248 | 115 | 5 | 8 | 3,768 |
| 23 | Textiles . . . . | 183 | 293 | 19 | 36 | 12 | 38 | - | - | 581 |
| 24 | Clothing and footwear | 323 | 540 | 42 | 47 | 13 | 2 | - | - | 968 |
| 25 | Wood, wood products and furniture | 387 | 285 | 154 | 113 | 111 | 72 | 1 | 7 | 1,129 |
| 26 | Paper, paper products, printing and publishing | 685 | 576 | 147 | 129 | 93 | 109 | 3 | 22 | 1,763 |
| 27 | Chemical, petroleum and coal products | 875 | 523 | 116 | 62 | 90 | n.p. |  |  | $\{1,697$ |
| 28 | Non-metallic mineral products | 345 | 305 | 147 | 95 | 120 | 17 \} | 41 | 5 | $\{1,036$ |
| 29 | Basic metal products | 1,017 | 275 | 207 | 148 | 166 | 59 |  |  | (1,908 |
| 31 | Fabricated metal products | 633 | 567 | 174 | 137 | 135 | 23 | 3 | 8 | 1,681 |
| 32 | Transpert equipment . | 550 | 945 | 191 | 257 | 76 | n.p.) |  |  | $\{2,032$ |
| 33 | Other machinery and equipment | 1,151 | 922 | 143 | 243 | 115 | 13 | 3 | 4 | 2,592 |
| 34 | Miscellaneous manufacturing | 415 | 474 | 60 | 91 | 30 | 7 ) |  |  | 1,077 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 7.752 | 6,901 | 2,090 | 1,672 | 1,209 | 498 | 56 | 54 | 20,231 |
|  | 1977-78(b) | 7.755 | 6,897 | 2.093 | 1,669 | 1,197 | 513 | 56 | 54 | 20.235 |
|  | 1976-77(b) | 7.219 | 6,637 | 1,991 | 1.597 | 1,154 | 533 | 46 | 57 | 19,234 |

(a) Based on 1978 edition of ASIC (see page 442).
(b) Based on 1969 edition of ASIC (see page 442).

## Number of establishments

The following table shows the number of establishments in each State in operation at 30 June for the years indicated. These figures relate to manufacturing establishments as such and do not include the numbers of separately located administrative offices and ancillary units.

MANUFACTURING ESTABLISHMENTS-NUMBER OF ESTABLISHMENTS IN OPERATION AT 30 JUNE 1978(a) BY INDUSTRY SUB-DIVISION, AND TOTAL MANUFACTURING 1976-77, 1977-78( $b$ )

| Industry sub-division |  | N.S.W. | Vic. | QLd | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $A S I C$ code | Descriprion |  |  |  |  |  |  |  |  |  |
| 21 | Food, beverages and tobacco | 960 | 984 | 561 | 383 | 318 | 129 | 15 | 8 | 3,358 |
| 23 | Textiles | 223 | 301 | 34 | 35 | 28 | 13 | - | - | 634 |
| 24 | Clothing and foorwear | 843 | 1,079 | 84 | 73 | 49 | 8 | - | - | 2,136 |
| 25 | Wood, wood products and furniture | 1,226 | 1,078 | 559 | 318 | 372 | 170 | 9 | 19 | 3,751 |
| 26 | Paper, paper products, printing and publishing | 1,103 | 848 | 217 | 187 | 149 | 45 | 6 | 18 | 2,573 |
| 27 | Chemical, petroleum and coal products | 408 | 276 | 58 | 50 | 64 | n.p. |  |  | [ 873 |
| 28 | Non-metallic mineral products | 538 | 380 | 254 | 145 | 173 | $53\}$ | 20 | 16 | \{ 1,573 |
| 29 | Basic metal products. | 207 | 166 | 48 | 40 | 33 | 10 |  |  | ( 508 |
| 31 | Fabricated metal products | 1,484 | 1,097 | 442 | 353 | 349 | 76 | 10 | 17 | 3,829 |
| 32 | Transport equipment . | 387 | 409 | 167 | 121 | 142 | n.p. |  |  | $\{1,248$ |
| 33 | Other machinery and equipment | 1,510 | 1,228 | 246 | 293 | 230 | 40 | 4 | 11 | $\{3,558$ |
| 34 | Miscellaneous manufacturing | 807 | 725 | 168 | 172 | 130 | 18 |  |  | 2,023 |
| Total manufacturing |  |  |  |  |  |  |  |  |  |  |
|  | 1977-78(a) | 9,696 | 8.571 | 2,838 | 2,170 | 2,037 | 599 | 64 | 89 | 26,064 |
|  | 1977-78(b) | 9,712 | 8,542 | 2,840 | 2,146 | 2,016 | 586 | 64 | 91 | 25,997 |
|  | 1976-77(b) | 9,982 | 8,735 | 3,001 | 2,242 | 2,035 | 617 | 67 | 101 | 26,780 |

(a) Based on 1978 edition of ASIC (see page 442). (b) Based on 1969 edition of ASIC (see page 442 ).

## Single establishment manufacturing enterprises with less than four persons employed

Summary of operations
The following table shows the summary of operations for single establishment manufacturing enterprises with less than four persons employed.

> SINGLE ESTABLISHMENT MANUFACTURING ENTERPRISES WITH LESS THAN FOUR PERSONS EMPLOYED: SUMMARY OF OPERATIONS, BY INDUSTRY SUB-DIVISION: AUSTRALIA, 1977-78(a) AND TOTAL MANUFACTURING 1976-77(b)


## Electricity and gas establishments

For the section on electricity and gas establishments see Chapter 18, Energy.

## Principal manufacturing commodities

The factory production of certain commodities is shown in the monthly and quarterly publications of the ABS, and in the annual publication, Manufacturing Commodities, Selected Principal Articles Produced, Australia (Preliminary) (8365.0). A more comprehensive list of articles produced is contained in the annual publication, Manufacturing Commodities, Principal Articles Produced, Australia (8303.0).

The following table shows the total recorded production of some of the principal articles (i.e. of those for which production can be represented in quantitative terms) manufactured in Australia. A more complete list, where available, is published in ABS publication 8303.0 mentioned above.

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA.

(a) Includes swim shorts. Excludes infants' and babies'swim-wear.

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA-continued


[^2]QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA-continued

| Commodity code | Article |  | 1975-76 | 1976-77 | 1977-78p |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Iron and steel- |  |  |  |  |
| 442.04, 08 | Pig iron | 000 tonnes | 7,331 | 7,005 | 6,989 |
| 442.80-83 | Steel ingots | " | 7,832 | 7,558 | 7,445 |
| 442.28 | Blooms and slabs(a) | " | 6,477 | 6,544 | 6,520 |
| 693.51, 61, 63 | Irons, electric (hand, domestic) | '000 | 746 | 876 | 774 |
| 076.60 | Jams (including conserves, jellies, etc.) | 000 kg | 31,121 | 27,267 | 28,998 |
| 391.04 | Lard . . . . . . . . . . . . . . . ${ }_{\text {Lawn mowers- }}$ |  |  |  |  |
|  |  |  |  |  |  |
| 699.52, 53 | Petrol, rotary | No. | 336,866 | 316,793 | 268,790 |
| 699.41, 45, 55, 61 | Other types( $b$ ) |  | 19,559 | 12,917 | 14,359 |
| 453.04 | Lead refined(c) | '000 tonnes | 168 | 166 | 208 |
|  | Leather- 208 |  |  |  |  |
|  | Dressed or finished- |  |  |  |  |
| 301.43-65 | Chrome tanned (including retanned) | ${ }^{\prime} 000 \mathrm{~m}^{2}$ | 5,015 | 5,090 | 6,044 |
| 301.31-37, 83-89 | Vegetable tanned, by weight | '000 kg | n.a. | n.a. | n.a. |
| 301.67,69 | Vegetable tanned, by measurement | ${ }^{\prime} 000 \mathrm{~m}^{2}$ | 178 | 162 | 225 |
|  | Lime- |  |  |  |  |
| 275.43,45 | Crushed | tonnes | 228,220 | 205,070 | 212,032 |
| 479.18 | Hydrated | '000 tonnes | 110 | 120 | 115 |
| 479.12 | Quick |  | 564 | 532 | 563 |
| 802.21 | Lipstick | ${ }^{\prime} 000 \mathrm{~kg}$ | 41 | 40 | 40 |
| 063.11-21, 31 | Malt (excluding extract) | ${ }^{\prime} 000$ tonnes | 403 | 388 | 423 |
|  | Margarine - |  |  |  |  |
| 121.01 | Table . | ${ }^{\prime} 000 \mathrm{~kg}$ | 46,482 | 69,902 | 76,214 |
| 121.06,08 | Other | " | 56,635 | 52,812 | 45,876 |
|  | Mattresses- |  |  |  |  |
| 844.22, 25, 27 | Inner spring | '000 | 630 | 695 | 683 |
| 844.42, 45, 47 | Rubber | , | 16 | 15 | 10 |
| 844.52-67 | Other |  | 542 | 601 | 581 |
| 027.02-77 | Meat, canned (d) | ${ }^{\prime} 000 \mathrm{~kg}$ | 43,878 | 52,173 | 51,778 |
|  | Meters (domestic)- 235 |  |  |  |  |
| 702.01 | Electricity consumption | '000 | 248 | 235 | 206 |
| 703.01 | Gas consumption | , | 62 | 69 | 88 |
| 703.11 | Water consumption | " | 189 | - 178 | 171 |
|  | Milk, condensed, concentrated and evaporated- |  |  |  |  |
| 051.21,22 | Full cream, coffee and milk, sweetened | ${ }^{\prime} 000 \mathrm{~kg}$ | 15,364 | 19,777 | 17,996 |
| 051.23, 052.42 | Full cream, unsweetened | ," | 34,350 | 37,925 | 37,703 |
| 051.28 | Skim | " | 22,312 | 22,176 | 25,704 |
|  | Milk powder in powdered form- " 5 |  |  |  |  |
| 051.72,73 | Full cream | " | 43,977 | 57,550 | 76,367 |
| 051.76-79 | Skim | " | 149,097 | 103,924 | 84,302 |
| 051.81, 82 | Buttermilk or mixed skim and buttermilk |  | 11,676 | 8,881 | 9,297 |
| 503.13-32 | Motors, electric (excl. automotive) | '000 | 4,140 | 3,319 | 2,872 |
|  | Motor vehicles, finished- |  |  |  |  |
| 581.02-08 | Cars | No. | 308,537 | 322,607 | 264,959 |
| 581.10-16 | Station wagons | , | 55,289 | 58,511 | 53,186 |
| 582.04 | Utilities | " | 26,031 | 24,937 | 21,979 |
| 582.06 | Panel vans | , | 28,195 | 25,844 | 20,221 |
| 582.08-24 | Truck and truck-type vehicles | " | 7,488 | 10,223 | 10,091 |
|  | Motor vehicles, party finished- |  |  |  |  |
| 581.22-28, |  |  |  |  |  |
| 582.33-46 | Trucks and truck-type vehicles. | " | 22,834 | 23,719 | 18,927 |
| 589.81-89 | Motor vehicle safety belts | '000 | 2,193 | 2,129 | 1,605 |
| 465.16, 17 | Nails | " | 22,683 | 22,336 | 20,269 |
|  | Oatmeal and rolled oats- . ${ }^{\text {- }}$, 683 22,336 |  |  |  |  |
| 062.61,63 | For porridge, etc. | tonnes | 14,863 | 13,059 | 15,637 |
| 393, 394 | Oils and fats, crude-Vegetable | ${ }^{\prime} 000 \mathrm{~kg}$ | 72,395 | 61,345 | 78,885 |
|  | Paints, etc.Architectural and decorative(e)Solvent thinned- |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 410.01 | Primers and undercoats | '000 litres | 12,596 | 11,918 | 11,764 |
| 410.03, 05, 07 | Finishing coats | , | 30,823 | 29,266 | 27,585 |

[^3]QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS:
AUSTRALIA-continued


[^4]QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN MANUFACTURING ESTABLISHMENTS: AUSTRALIA-continued

| Commodity code | Article |  | 1975-76 | 1976-77 | 1977-78p |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 475.30 \\ & 472.12 \end{aligned}$ | Tiles, roofing- |  |  |  |  |
|  | Concrete | ${ }^{\prime} 000$ |  |  |  |
|  | Terracotta | ,'\} | 219,663 | 226,704 | 205,572 |
|  | Timber- |  |  |  |  |
|  | From native logs- |  |  |  |  |
| 331.01-07 | Hardwood, etc. | '000 m ${ }^{\text {3 }}$ | 2,372\} | 3,228 | 3,057 |
| 331.09-19 | Softwood | " | 856 |  |  |
| 331.23,25 | From imported logs | " | 2 | 2 | n.a. |
| 661.21,23 | Toasters, electric (domestic) | No. | 592,344 | 557,752 | 520,698 |
| 183.21-28 | Tobacco | ' 000 kg | 2,101 | 1,935 | 1,947 |
| 094.51 | Tomato juice | '000 litres | 7,229 | 8,130 | 8,818 |
| 094.53 | Tomato paste and puree |  | n.a. | 56,728 | n.a. |
| 373.58-64 | Towels | '000 doz | 784 | 811 | 838 |
| 671.51-59 | Toilet cisterns | No. | 494,363 | 545,468 | n.a. |
| 683.03-11 | Transformers, chokes and ballasts, for distribution of power and light, etc. | " | 15,185 | 18,358 | 18,888 |
| 863.01 | Umbrellas, street and general purpose | '000 | 666 | 528 | n.a. |
| 773.90-97 |  |  |  |  |  |
| $\begin{gathered} 774.01-18,36-49 \\ 61-73,91-97 \end{gathered}$ | Underwear (men's, women's, children's) | ${ }^{\prime} 000 \mathrm{doz}$ | 6,271 | 6,660 | 6,051 |
| 692.02,04 | Vacuum cleaners (domestic) | '000 | 251 | 200 | 175 |
|  | Wash basins- |  |  |  |  |
| 671.37 | Earthenware | " | 276 | 252 | 251 |
| 693.02-18 | Washing machines, household, electric | " | 351 | 301 | 282 |
|  | Weatherboards- |  |  |  |  |
| 332.12 | Australian timber | $\mathrm{m}^{3}$ | 33,457 | 15,272 | 11,317 |
| 332.14 | Imported timber | " | 2,317 | 2,857 | 1,791 |
| 152.14 | Wheatmeal for stock feed | '000 tonnes | 539 | 492 | 417 |
| 519.01 | Wheelbarrows (metal) | No. | 182,794 | 155,905 | 200,234 |
|  | Wine, beverage- |  |  |  |  |
| 172.42 172.46 | Fortified | '000 litres, | 68,586 | 65,519 | 45,031 185,413 |
| 172.46 | Unfortified |  | 164,014 | 194,800 | 185,413 |
| 341.31-45 | Wood pulp (air dried) - | '000 tonnes | 555 | 600 | 614 |
| 242.07-11 | Wool, scoured or carbonised | tonnes | 69,272 | 62,167 | 70,456 |
| 242.33, 35 | Wool tops, pure | '000 kg | 15,416 | 16,709 | 17,173 |
|  | Yarn(including mixtures)- , |  |  |  |  |
| 364.11-50 | Cotton | ", | 24,486 | 22,181 | 22,460 |
| 363.47-75 | Woollen | " | 16,247 | 14,008 | 13,821 |
| 363.17-31 | Wool worsted | ", | 6,131 | 5,422 | 5,453 |
| 365.38-65 | Rayon and acetate, spun | " | 2,321 | n.a. | n.a. |
| 365.90, 366.03, 04, |  |  |  |  |  |
| $\begin{aligned} & 16,29,30,42,55, \\ & 56,88,96,97 \end{aligned}$ | Synthetic (non-cellulosic) fibres spun | " | 15,033 | 11,615 | 9,289 |
| 457.04 | Zinc, refined ( $a$ ) | '000 tonnes | 205 | 262 | 263 |

(a) Primary origin only includes small quantities of zinc dust.

## Enterprise and Industry Concentration Statistics

Industry statistics shown earlier in this chapter relate to establishments. Statistics are also available for enterprises engaged in manufacturing industry. Enterprise statistics for manufacturing have been produced from the 1968-69 and 1974-75 economic censuses and were published in Enterprise Statistics: Details by Industry Class, Australia (8103.0). Enterprise statistics for manufacturing will be produced annually commencing with data for 1977-78 and should be available within two years of the end of the financial year to which they relate. A description of the statistics is given in Year Book No. 61, pages 1077-81.

Similarly, industry concentration statistics have been published for 1968-69 and 1972-73. These aim to show the extent to which individual enterprise groups dominate particular industries. A description and summary tables of these statistics are given in Year Book No. 61, pages 1081-4 for 1968-69, and the publication Manufacturing Census, Industry Concentration Statistics, Australia (8207.0) for 1972-73.

## Foreign Ownership and Control in Manufacturing Industry

Summary information on foreign ownership and control in manufacturing industry is shown in Chapter 24. More detailed statistics are available in Foreign Control in Manufacturing Industry, Study of Large Enterprise Groups, 1972-73 (Advance Release) (5314.0), Foreign Control in Manufacturing Industry, Study of Large Enterprise Groups, 1975-76 (5315.0), Foreign Ownership and Control in Manufacturing Industry, 1972-73 (Advance Release) (5321.0) and Foreign Ownership and Control in Manufacturing Industry, 1972-73 (5322.0).

## INTERNAL TRADE

## Wholesale Trade

For summary tables showing final figures from the 1968-69 census of Wholesale Trade see Year Book No. 61, pages 1070-2. Further and more detailed statistics are included in separate publications published by Central and State offices of ABS.

## Retail Trade

## Retail census

The definition of retail trade, for the purpose of the most recent retail census which was taken for the year ended 30 June 1974, is the resale of new and used goods to final consumers for personal and household consumption. For information and detailed tables relating to the 1973-74 Retail Census, reference should be made to Year Book No. 61, pages 1072-6, and census publications Census of Retail Establishments and Selected Service Establishments 1973-74-Final Bulletins (8614.0 to $8619.0,8620.0$ and 8621.0 ). Summary of operations details of establishments classified by industry group for Australia for 1973-74 are set out in the following table.

RETAIL ESTABLISHMENTS AND SELECTED SERVICE ESTABLISHMENTS: SUMMARY OF OPERATIONS, BY INDUSTRY GROUP, 1973-74

| Industry group | $\begin{array}{r} \text { Number } \\ \text { of } \\ \text { establish- } \\ \text { ments } \\ \text { at } \\ 30 \mathrm{June} \\ 1974 \end{array}$ | Employment at end of <br> June 1974 (a) |  |  | Wages and salaries <br> (b) | Retail sales | Whole. sale sales | Other operat. ing revenue | Turnover |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Males | Females | Persons |  |  |  |  |  |
| RETAIL ESTABLISHMENTS |  |  |  |  |  |  |  |  |  |
|  | No. | No. | No. | No. | \$m | \$m | Sm | \$m | Sm |
| Department variety and general stores | 1,672 | 36,721 | 85,582 | 122,303 | 407.2 | 2,399.8 | 85.0 | 52.1 | 2,536.9 |
| Food stores . . | 47,957 | 99,692 | 127,582 | 227,274 | 429.0 | 5,073.8 | 25.1 | 34.5 | 5,133.5 |
| Clothing, fabrics and furniture stores | 19,334 | 30,308 | 57,170 | 87,478 | 239.2 | 2,076.1 | 7.5 | 10.0 | 2,093.6 |
| Household appliance and hardware stores | 9,734 | 26,625 | 20,044 | 46,669 | 151.5 | 1,110.0 | 47.2 | 129.2 | 1,286.4 |
| Motor vehicle dealers, petrol and tyre retailers | 28,170 | 155,807 | 36,445 | 192,252 | 681.6 | 5,340.0 | 1,222.5 | 915.9 | 7,478.4 |
| Other retailers | 20,139 | 30,436 | 48,147 | 78,583 | 171.2 | 1,461.1 | 13.4 | 26.7 | 1,501.2 |
| Total retail establishments | 127,006 | 379,589 | 374,970 | 754,559 | 2,079.7 | 17,460.9 | 1,400.7 | 1,168.4 | 20,030.1 |
| SELECTED SERVICE ESTABLISHMENTS |  |  |  |  |  |  |  |  |  |
| Restaurants and licensed hotels | 11,478 | 63,364 | 88,871 | 152,235 | 416.9 | 1,290.9 | 1.7 | 625.1 | 1,917.6 |
| Licensed clubs . | 3,287 | 33,526 | 18,186 | 51,712 | 185.6 | 310.9 | 0.8 | 348.4 | 660.0 |
| Hairdressing and beauty salons . | 9,349 | 5,896 | 20,562 | 26,458 | 46.7 | 8.0 | - | 117.9 | 125.9 |
| Total selected service establishments | 24,114 | 102,786 | 127,619 | 230,405 | 649.2 | 1,609.8 | 2.5 | 1,091.3 | 2,703.6 |
| Total retail and selected service establishments | 151,120 | 482,375 | 502,589 | 984,964 | 2.729.0 | 19,070.7 | 1,403.2 | 2,259.8 | 22,733.7 |

(a) At end of June; includes working proprietors but excludes unpaid helpers. (b) Excludes drawings by working proprietors.

## Retail surveys

In intercensal periods, estimates of the value of retail sales by broad commodity groups are obtained quarterly by means of sample surveys for each State and Australia.

The following table shows the value of retail sales of goods in each of the commodity groups specified. The figures have been obtained from a sample based on the 1973-74 Retail Census. More detailed information concerning the quarterly surveys of retail trade is contained in the quarterly publication Retail Sales of Goods, Australia (8503.0).

## VALUE OF RETAIL SALES: COMMODITY GROUPS (a)

( $\$$ million)

(a) Excludes Norhern Terriory and Australian Capital Territory. (b) Includes fresh fruit and vegetables, confectionery, soft drinks, ice cream, cakes, pastry, cooked provisions, fish and wrapped lunches. (c) Excludes basic building materials, builders' hard ware and supplies such as tools of trade, paint, etc. (d) Includes radios, television and accessories, musical instruments, domestic refrigerators, etc. (e) Includes tobacco, cigarettes, etc., sporting goods, etc., but excludes grain and produce and business machines.

## Retail sales of goods at constant prices

The following table shows series of the value of retail sales of goods at constant prices. The scope of the series at average 1968-69 prices is identical to that of the series at current prices based on the 1968-69 Retail Census, while the scope of the series at average 1974-75 prices is identical to that of the series at current prices based on the 1973-74 Retail Census.

A detailed description of the nature of these estimates at constant prices, and of the sources and methods used in preparing them, can be found in the Explanatory Notes of the March 1978 issue of Retail Sales of Goods (8503.0).
VALUE OF RETAIL SALES OF GOODS AT CONSTANT PRICES BY BROAD COMMODITY GROUPS(a) (\$ million)

| Broad commodity group | At average 1968-69 prices(b) | At average 1974-75 prices(c) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1974-75 | 1974-75 | 1975-76 | 1976-77 | 1977-78 | 1978-79 |
| Food and drink | 5,023.0 | 7,429.6 | 7,621.0 | 7,932.8 | 8,197.9 | 8,236.9 |
| Clothing, hardware, electrical and furniture | 4,115.1 | 5,984.9 | 6,217.3 | 6,221.2 | 6,073.5 | 6,083.5 |
| Other . . . . . . . . | 1,901.2 | 2,925.2 | 2,929.9 | 2,973.7 | 3,048.5 | 3,099.2 |
| Total (excluding motor vehicles, parts, petrol, etc.) | . 11,039.3 | 16,339.7 | 16,768.2 | 17,127.7 | 17,319.9 | 17,419.6 |

[^5]
[^0]:    For footnotes see end of table

[^1]:    For footnotes see end of table.

[^2]:    (a) Exciudes tyre-cord fabric and towelling. (b) Primary origin only. (c) Petrol and diesel. Excludes car, motorcycle, truck, tractor, aero, and marine engines. (d) Needled (or bonded) felts of jute or jute/hair mixtures (for all purposes). (e) Includes wheatmeal for baking and sharps and other flour. (f) Excludes grape must. ( $g$ ) Excludes fabric liners for dipped gloves but includes moulded or heatsealed work gloves. ( $h$ ) Includes ice cream combined with other confections, including those aerated milk-based confections which contain $10 \%$ or more butterfat. (i) Includes malted milk and milk sugar (lactose).

[^3]:    (a) Primary mills output. excludes lead-silver bullion.
    (b) Petrol cylinder, electric and hand.
    (c) Includes lead content of lead alloys from primary sources but
    (d) Excludes poultry and baby food. (e) Excludes heavy duty coatings.

[^4]:    (a) Business or formal. (b) Excludes powdered shampoo. (c) Includes wall ovens but excludes cooking tops and portable units. (d) Upright and elevated (with ovens) including wall ovens, but excluding hotplates, stovettes, etc. (e) Includes double and triple superphosphate and ammonium phosphate expressed in terms of single superphosphate i.e. $22 \% \mathrm{P}_{2} \mathrm{O}_{2}$ equivalent.

[^5]:    (a) Excludes Northern Territory and Australian Capital Territory.
    (b) Series based on 1968-69 Retail Census.
    (c) Series based on 1973-74 Retail Census.

