CHAPTER 22

MANUFACTURING INDUSTRY

Further detail on the subjects dealt with in this chapter is contained in the annual printed bulletins Manufacturing Industry and Manufacturing Commodities. Information is also published, as soon as the data can be prepared, in a series of thirty-five annual mimeographed bulletins, Manufacturing Industries, each relating to a particular industry or group of industries. Details of the industries covered are contained in the list of Statistical and other official publications of Australia in the Miscellaneous chapter. Advance annual information is published in mimeographed form in A Summary of Principal Statistics of Factories and in Principal Factory Products. Current information on factory products is available in the Quarterly Summary of Australian Statistics, the Monthly Review of Business Statistics, the Digest of Current Economic Statistics, and the Monthly Bulletin of Production Statistics) are also issued.

In addition to the above-mentioned publications, there is also a series of fifty-two *Monthly Production Summaries*, each relating to the production of a particular commodity or group of commodities (see reference above to Statistical publications).

The annual mimeographed bulletin *Indexes of Factory Production* deals comprehensively with this subject, which is treated only in summarised fashion on pages 729-30.

Economic censuses, 1968-69

In respect of the year 1968-69, the Commonwealth Bureau of Census and Statistics has conducted the annual census of manufacturing industry as part of a programme of fully integrated economic censuses covering manufacturing and mining industries, and retail and wholesale trade. For a detailed description of the purposes served by this project, and of the new concepts and methods adopted, the reader is referred to the special article on the censuses, which appears as Chapter 31 of this Year Book.

The integrated economic censuses have been a major undertaking involving the development of new concepts, definitions and procedures. Inevitably there has been a considerable delay in finalising the results of the censuses and, for this chapter on manufacturing industry, it has not been possible to provide more up to date statistics than those for 1967-68 which were included in the previous issue. In view of this, the detailed tables showing statistics for individual industries, included in the previous issue, on pages 1075-95, have not been repeated. Results of the 1968-69 censuses will be available in a set of special bulletins.

Introduction

A complete statistical account of the growth of the manufacturing industry in Australia cannot be given, as the necessary statistics were not collected by the several States on a definite and uniform basis prior to 1906. A standard classification of manufacturing industries was formulated at a conference of Australian statisticians in 1902 and adopted by all States in 1906, and figures on this basis were prepared for 1907 and subsequent years.

An historical summary of the development of the manufacturing industry in Australia since 1901 is contained in earlier issues of the Year Book (see No. 51, pages 143-4).

Decentralisation of manufacturing industries

The decentralisation of secondary industries, and the steps taken by Commonwealth and State Governments towards its development, are referred to in previous issues of the Year Book (see No. 51, page 144).

Bounties on manufacture

Bounties are paid by the Commonwealth Government to encourage local manufacture of certain products. The statutory provisions usually fix a term of operation of the bounty, provide for payment at a rate varying according to changes in the corresponding customs duty, specify the annual maximum

amount of bounty payable, and require the bounty to be withheld or reduced if a manufacturer's net profit in production of the commodity exceeds a certain rate, or if rates of wages and conditions of employment in production of the commodity do not conform to prescribed standards. (See Chapter 18, Public Finance for products on which bounties are paid.)

Standardisation

The Commonwealth Scientific and Industrial Research Organization has functions concerned with the improvement of efficiency in industrial operations. For further particulars see the chapter Education, Cultural Activities, and Research of this Year Book.

The Standards Association of Australia is the organisation responsible for industrial standardisation on a national basis. It issues 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 Common-wealth and State Governments and of industry. Approximately half its funds are provided by Commonwealth Government grant, the remainder coming primarily from membership subscriptions and from sale of publications. Organisations, companies, and individuals are eligible for subscribing membership.

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

Preparation of standards is undertaken in response to requests from industrial associations or firms or from government departments. 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 special cases where safety of life or property is involved, they may have compulsory application through statutory reference.

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

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

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

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

The National Association of Testing Authorities organises testing facilities throughout Australia to serve private and governmental needs.

Membership is open to authorities whose testing laboratories conform to the standards of staffing and operation defined by the Association. Testing authorities may register their laboratories voluntarily. The Association assesses the competence of the laboratories and ensures that their standards of competence are maintained. Certificates of test issued by registered laboratories may be endorsed in the name of the Association. NATA endorsed test certificates are generally accepted by governmental, industrial and commercial interests.

Laboratories are registered for performance of specific tests in the fields of metrology, mechanical testing, electrical testing, optics and photometry, non-destructive testing, heat and temperature measurement, chemical testing, biological testing, and acoustic and vibration measurement. In June 1970 766 laboratories held NATA registration. A further 52 laboratories had been nominated for registration.

The Industrial Design Council of Australia was established in June 1958 for the purpose of encouraging better design in Australian-made goods and fostering an appreciation of good design throughout the community. The Council is fully representative of industry, commerce and government, together with designers and educationists. Its activities are financed by donations from industry and commerce, and by Commonwealth and State grants. IDCA has established Australian design centres in Adelaide, Melbourne and Sydney. These centres display Australian products of approved design and present changing exhibitions relating to design in manufactured articles. IDCA is also responsible for the Australian Design Index which provides a detailed, illustrated record of welldesigned Australian products.

The Design Delegate scheme enables regular contact to be maintained with senior executives of manufacturing companies, departmental officers and designers wishing to participate actively in IDCA's programme of lectures, information, and guidance on all aspects of industrial design. Services to design delegates are administered by IDCA through its design centres.

A Record of Designers has been set up to register information about industrial designers and their work. The Council, which has its headquarters in Melbourne, is also concerned with raising the standard of training in industrial design in co-operation with education authorities. For further particulars see Year Book No. 51, page 145.

Definitions in factory statistics

For the purposes of this Chapter, statistical definitions refer to the basis on which the statistics were compiled up to and including 1967-68. Important changes were introduced in the 1968-69 census (*see* page 709). The reader should refer to Chapter 31 for a detailed discussion of these new definitions and procedures, which will apply to 1968-69 statistics.

The statistics relating to factories have been compiled from tabulations made by the Deputy Commonwealth Statisticians in the several States from returns supplied to them annually by manufacturers in accordance with the statistical Acts of the States and the Commonwealth. A return must be supplied in respect of every *factory*, which is defined for this purpose as an establishment where four or more persons are employed or where power (other than manual) is used in any manufacturing process. This definition includes factories in educational and charitable institutions, reformatories, and other public institutions (except penitentiaries), but does not cover smallgoods makers, laundries, photography studios, florists and seedsmen, or most abattoirs.

If a manufacturing business is conducted in conjunction with any other activity, particulars relating to the manufacturing section only are included in the statistics. Where two or more industries are conducted in the same establishment, a separate return is obtained for each industry wherever practicable.

Manufacturers are requested to state in their returns particulars of the number, age, etc., of their employees, salaries and wages paid, the value of premises and equipment, the horse-power of machinery, the value of raw materials (including containers), tools replaced, etc., the values and in most cases the quantities of fuel used, and quantities and values of principal materials used and articles produced. The returns obtained from manufacturers are not intended to show a complete record of the income and expenditure of factories nor to show the profits or losses of factories collectively or individually.

Persons employed in the manufacturing activities of the factory only are counted as factory employees. The figures relating to employment therefore include working proprietors as well as out-workers, but *exclude* all those engaged in selling and distribution such as salesmen, travellers, collectors, carters engaged solely on outward delivery of manufactured goods, and retailing storemen.

The average number of persons employed is quoted on two different bases, the average during the period of operation and the average over the whole year. Of these, the former is simply the aggregate of the average number of persons employed in each factory during its period of operation (whether the whole or only part of the year). This average is used only in respect of details relating to classification according to the number of persons employed. The latter, which is used in all other instances, is calculated by reducing the average number working in the factories (irrespective of period of operation) to the equivalent number working for a full year.

Working proprietors are included in all employment figures other than those relating to monthly employment and age dissections, but salaries and wages paid in all cases exclude drawings by working proprietors.

Value of materials used includes also the value of stores used, containers, tools replaced, and materials used in repairs to plant.

Value of fuel, etc., used includes also the cost of power and light used, lubricants and water.

The value of factory output is the value of the goods manufactured or their value after passing through the particular process of manufacture concerned, and includes the amount received for repair work, work done on commission and receipts for other factory work. The basis of valuation of the output is the selling value of the finished articles at the factory, exclusive of all delivery costs and charges and excise duties, but inclusive of bounty and subsidy payments to the manufacturer. In the special case of government factories and workshops the value of output is, in most cases, estimated by adding ten per cent to the value of materials and fuel used and other factory costs, including salaries and wages paid.

The value of production is the value added to materials by the process of manufacture. It is calculated by deducting from the value of factory output the value (at the factory) of the materials used, containers and packing, power, fuel and light used, tools replaced, and materials used in repairs to plant (but not depreciation charges). In the process of manufacture many goods are treated in several industries, the output from one becoming the material for another, so that such commodities are counted more than once in the aggregate value of output and of materials. Examples are raw sugar passing from the mills to the refinery, metals from the smelters which become materials in establishments concerned in the production of metal goods, timber from the sawmills used in furniture factories and in joinery, and synthetic resins from chemical works used to make plastic products. On the other hand, the aggregate value of production is assessed without duplication, the value added by each industry being taken into account once only. For this reason, the value of production, and not the value of output, is used as a measure of activity in the manufacturing industries as a whole.

Statistics relating to factory activity in the Australian Capital Territory and Northern Territory are included in the figures contained in this chapter as from 1 July 1964, unless otherwise indicated.

A standard classification of manufacturing industries is used in compiling statistical data relating to factories in Australia. It is designed in accordance with decisions of the 1945 Conference of Statisticians, and represents a revision and extension of a classification which was introduced in 1930–31, replacing the revised versions of the original classification formulated in 1902.

Owing to limitations of space, details published in general tables in this chapter are confined either to the sixteen classes of industry or to total factory activity. Some particulars of certain of the subclasses shown below were published in the latter portion of Chapter 26 of Year Book No. 55, and full details for all sub-classes may be found in the bulletin *Manufacturing Industry* (previously entitled *Secondary Industries*, Part 1—*Factory and Bullding Operations*).

The classes and sub-classes in the current classification of factories are as follows.

CLASSIFICATION OF FACTORIES

CLASS 1. TREATMENT OF NON-METALLIFEROUS MINE AND QUARRY PRODUCTS

- 1. Coke works
- 2. Briquetting and pulverised coal
- 3. Carbide
- 4. Lime, plaster of paris, asphalt
- 5. Fibrous plaster and products
- 6. Marble, slate, etc.
- 7. Cement, portland
- 8. Asbestos cement sheets and mouldings
- 9. Other cement goods
- 10. Other

CLASS 2. BRICKS, POTTERY, GLASS, ETC.

- 1. Bricks and tiles
- 2. Earthenware, china, porcelain, and terracotta
- 3. Glass (other than bottles)
- 4. Glass hottles
- 5. Other

CLASS 3. CHEMICALS, DYES, EXPLOSIVES, PAINTS, OILS, GREASE

- 1. Industrial and heavy chemicals and acids
- 2. Pharmaceutical and toilet preparations
- 3. Explosives (including fireworks)
- 4. White lead, paints and varnish
- 5. Oils, vegetable
- 6. Oils, mineral
- 7. Oils, animal
- 8. Boiling-down, tallow refining
- 9. Soap and candles
- 10. Chemical fertilisers
- 11. Inks, polishes, etc.
- 12. Matches
- 13. Other

- CLASS 4. INDUSTRIAL METALS, MACHINES, CON-VEYANCES
 - 1. Smelting, converting, refining, rolling of iron and steel
- 2. Foundries (ferrous)
- 3. Plant, equipment and machinery, including machine tools
- 4. Other engineering
- 5. Extracting and refining of other metals; alloys
- 6. Electrical machinery, cables and apparatus 7-16. Construction and repair of vehicles (10 groups)
- 17, 18. Ship and boat building and repairing, marine engineering (government and other)
- 19. Cutlery and small hand tools 20. Agricultural machines and implements
- Non-ferrous metals-
- 21. Rolling and extrusion
- 22. Founding, casting, etc.
- 24. Sheet metal working, pressing and stamping
- 25. Pipes, tubes and fittings-Ferrous
- 26. Wire and wire working (including nails)
- 27. Stoves, ovens and ranges
- 28. Gas fittings and meters
- 29. Lead mills
- 30. Sewing machines
- 31. Arms, ammunition (excluding explosives)
- 32. Wireless and amplifying apparatus
- 33. Other metal works

CLASS 5. PRECIOUS METALS, JEWELLERY, PLATE

- 1. Jewellery
- 2. Watches and clocks (including repairs)
- 3. Electroplating (gold, silver, chromium, etc.)

CLASS 6. TEXTILES AND TEXTILE GOODS (NOT DRESS)

- 1. Cotton ginning
- 2. Cotton spinning and weaving
- 3. Wool--Carding, spinning, weaving
- 4. Hosiery and other knitted goods
- 5. Silk, natural
- 6. Rayon, acrylics and other synthetic fibres
- 7. Flax mills
- 8. Rope and cordage
- 9. Canvas goods, tents, tarpaulins, etc.
- 10. Bags and sacks
- 11. Textile dyeing, printing and finishing
- 12. Other

CLASS 7. SKINS AND LEATHER (NOT CLOTHING OR FOOTWEAR)

- 1. Furriers and fur-dressing
- 2. Woolscouring and fellmongery
- 3. Tanning, currying and leather-dressing
- 4. Saddlery, harness and whips
- 5. Machine belting (leather or other)
- 6. Bags, trunks and other goods of leather and leather substitutes
- CLASS 8. CLOTHING (EXCEPT KNITTED)
- 1. Tailoring and ready-made clothing
- 2. Waterproof and oilskin clothing
- 3. Dressmaking, hemstitching
- 4. Millinery
- 5. Shirts, collars, underclothing
- 6. Foundation garments
- 7. Handkerchiefs, ties and scarves
- 8. Hats and caps
- 9 Gloves
- 10. Boots and shoes (not rubber)
- 11. Boot and shoe repairing
- 12. Boot and shoe accessories
- 13. Umbrellas and walking sticks
- 14. Dyeworks and cleaning (including renovating
- and repairing)
- 15. Other

CLASS 9. FOOD, DRINK AND TOBACCO

- 1. Flour-milling
- 2. Cereal foods and starch
- 3. Animal and bird foods
- 4. Chaffeutting and cornerushing
- 5. Bakeries (including cakes and pastry)
- 6. Biscuits
- 7. Sugar mills
- 8. Sugar refining
- Confectionery (including chocolate and icing sugar)
- 10, Jam, fruit and vegetable canning
- 11. Pickles, sauces, vinegar
- 12. Bacon curing
- 13. Butter factories
- 14. Cheese factories
- 15. Condensed and dried milk factories
- 16. Margarine
- 17. Meat and fish preserving
- 18. Condiments, coffee, spices
- 19. Ice and refrigerating
- 20. Salt
- 21. Aerated waters, cordials, etc.
- 22. Breweries
- 23. Distilleries
- 24. Winemaking
- 25. Cider and perry
- 26. Malting
- 27. Bottling

- 28. Tobacco, cigars, cigarettes, snuff
- 29. Dehydrated fruit and vegetables
- 30. Ice cream
- 31. Sausage casings
- 32. Arrowroot
- 33. Other
- CLASS 10. SAWMILLS, JOINERY, BONES, ETC., WOOD TURNING AND CARVING

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- L. Sawmills
- 2. Plywood mills (including veneers)
- 3. Bark mills 4. Joinery
- 4. Joinery
- 5. Cooperage
- 6. Boxes and cases
- 7. Woodturning, woodcarving, etc.
- 8. Basketware and wickerware (including seagrass and bamboo furniture)
- Perambulators (including pushers and strollers)
 Wall and ceiling boards (not plaster or cement)
- 11. Other
- The second se
- CLASS 11. FURNITURE OF WOOD, BEDDING, ETC. 1. Cabinet and furniture making (including
 - billiard tables and upholstery)
- 2. Bedding and mattresses (not wire)
- 3. Furnishing drapery
- 4. Picture frames
- 5. Blinds
- CLASS 12. PAPER, STATIONERY, PRINTING, BOOK-BINDING, ETC.
- 1. Newspapers and periodicals
 - Printing----

9. Paper making

CLASS 13. RUBBER

11. Other

3. Other

- 2. Government
- 3. General, including bookbinding

10. Pencils, penholder, chalks, crayons

1. Rubber goods (including tyres made)

1. Gramophones and gramophone records

Linoleum, leather-cloth, oil-cloth, etc.
 Bone, horn, ivory, and shell

5. Optical instruments and appliances

8. Toys, games and sports requisites

CLASS 16. HEAT, LIGHT, AND POWER

1-3. Electric light and power

6. Surgical and other scientific instruments and

7. Photographic material (including developing

2. Tyre retreading and repairing

2. Pianos, piano-players, organs

CLASS 15. MISCELLANEOUS PRODUCTS

3. Plastic moulding and products

4. Brooms and brushes

appliances

and printing)

9. Artificial flowers

4-6. Gas works

10. Other

Class 14. MUSICAL INSTRUMENTS

- 4. Manufactured stationery
- 5. Stereotyping, electrotyping
- 6. Process and photo engraving
- Cardboard boxes, cartons and containers
 Paper bags

Factory development since 1901, Australia

			C . J	Value of-	-				
Year	Factories	Employ- ment(b)	Salaries and wages paid(c)	Materials and fuel used	Output	Production (d)	Land and buildings (e)	Plant and machinery (e)	
	No.	'000 '	\$,000	\$.000	\$ '000	\$'000	\$'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	
196061	57,782	1,145	2,289,230	6,115,930	10,465,765	4,349,835	2,389,140	2,785,565	
196364	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	
965-66	61,686	1,294	3,162,769	8,437,958	14,689,819	6,251,861	3,776,590	4,154,652	
966-67	62,500	1,309	3,407,683	9,015,844	15,892,845	6,877,001	4,061,193	4,706,843	
196768	62,954	1,331	3,665,902	9,663,217	17,094,070	7,430,853	4,303,156	4,962,203	

FACTORIES: AUSTRALIA(a), 1901 TO 1967-68

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory. (b) 1901 and 1911—average employment during period of operation. Later years relate to average employment over whole year. Working proprietors are included in all years. (c) Excludes amounts drawn by working proprietors. (d) Value added in process of manufacture (i.e. value of output less value of materials and fuel, etc. used). (e) Depreciated or book values at 30 June. Includes estimated values of rented premises and machinery.

Number of factories

Year	 N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust (a)
1963-64 .	23,642	17,597	5,955	5,826	4,609	1,746	n.a.	D.a.	59,375
1964-65 .	24,368	17,925	5,962	5,887	4,734	1,805	174	187	61,042
1965-66	24,531	17,980	6,010	6,065	4,906	1,792	185	217	61,686
1966-67 .	24,849	18,053	6,013	6,222	5,167	1,771	187	238	62,500
1967-68 .	24,884	18,030	6,154	6,255	5,404	1,797	188	242	62,954

Number in each State and Territory

FACTORIES: NUMBER, STATES AND TERRITORIES, 1963-64 TO 1967-68

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Number by class of industry

The next tables show the number of factories in Australia classified to the industrial classes agreed upon by the Conference of Statisticians in 1930.

NUMBER OF FACTORIES

Class of industry	196364	1964-65	1965-66	1966 -67	1967-68
I. Treatment of non-metalliferous mine and					
quarry products	1.517	1,557	1,611	1,615	1.635
2. Bricks, pottery, glass, etc.	692	689	678	676	659
3. Chemicals, dyes, explosives, paints, oils,					
grease	1,303	1,325	1,354	1,379	1,379
4. Industrial metals, machines, conveyances	25,415	26,665	27,549	28,424	29.213
5. Precious metals, jewellery, plate .	927	980	970	975	984
6. Textiles and textile goods (not dress)	1,358	1,373	1,360	1,329	1.332
7. Skins and leather (not clothing or footwear)	645	6.39	631	616	603
8. Clothing (except knitted)	7,447	7,450	7,271	7,141	6.961
9. Food, drink and tobacco	7,034	7,060	6,938	6,834	6,689
10. Sawmills, joinery, boxes, etc., wood turning			- •	•	
and carving	5,422	5,454	5,402	5,414	5, 1,16
11. Furniture of wood, hedding, etc.	2,181	2,210	2,200	2,260	2.275
12. Paper, stationery, printing, bookbinding, etc.	2,828	2,937	2,971	3,052	3,085
13. Rubber	674	705	711	685	648
14. Musical instruments	82	76	73	69	70
15. Miscellaneous products	1,494	1,575	1,627	1,701	1,746
Total, classes 1 to 15.	59,019	60,695	61,346	62,170	62,619
16. Heat, light and power	356	347	340	330	335
Total, all classes	59,375	61,042	61,686	62,500	62,954

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

FACTORIES: NUMBER, BY CLASS OF INDUSTRY, STATES AND TERRITORIES, 1967-68

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
t. Treatment of non-metalliferous									
mine and quarry products .	532	478	154	210	173	58	17	13	1.635
2. Bricks, pottery, glass, etc.	298	172	53	61	47	21	1	6	659
3. Chemicals, dyes, explosives, paints,									
oils, grease	638	404	99	109	92	31	5	1	1,379
4. Industrial metals, machines, con-									
veyances	11,692	7,683	2,793	3,294	2,824	698	103	126	29,213
5. Precious metals, jewellery, plate	389	255	44	177	94	19		6	984
6. Textiles and textile goods (not dress)	432	742	33	64	37	24			1,332
7. Skins and leather (not clothing or									
(ootwear)	282	213	42	37	24	5			603
Clothing (except knitted)	3,157	2.331	532	511	327	82	7	18	6,965
9. Food, drink and tobacco	2,319	1.834	889	697	629	279	23	19	6,689
10. Sawmills, joinery, boxes, etc., wood									• •
turning and carving	1.887	1.371	711	442	479	403	15	28	5,336
11. Furniture of wood, bedding, etc.	830	641	303	209	218	65	2	Ż	2,275
12. Paper, stationery, printing, book-									
binding, etc.	1,292	1,120	2.38	202	167	50	4	12	3.085
13. Rubber	239	166	111	52	49	19	6	6	648
14. Musical instruments	33	16	5	9	7				70
15. Miscellaneous products	781	559	92	149	145	20			1,746
Total, classes 1 to 15 .	24,801	17,985	6,099	6,223	5,312	1,774	183	242	62,619
16. Heat, light and power	83	45	55	32	92	23	5		335
Total, all classes	24,884	18,030	6,154	6,255	5,404	1,797	188	242	62,954

Classification of factories by number of persons employed

The classification of factories by size in the following tables on page 716 is based on the average weekly number of *persons employed during the period of operation* (including working proprietors).

MANUFACTURING INDUSTRY

Persons employed	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust
			NUMBER	R OF FAG	TORIES				
Under 4 .	10,363	5,896	2,103	3,068	2,558	728	67	72	24,85
4	1,935	1,535	616	472	482	162	20	29	5,25
5 to 10	5,680	4,384	1,591	1,207	1,126	430	63	63	14,544
11 to 20	3,033	2,564	831	681	559	225	25	46	7,964
21 to 50	2,217	1,994	569	459	440	156	10	23	5,868
51 to 100	829	825	229	193	151	44	3	5	2,279
101 to 200	447	462	114	99	54	28	• •	1	1,205
201 to 300	140	156	53	21	18	12	••	2	402
301 to 400	74	73	14	17	5	1	• •	• •	184
401 to 500	42	44	15	11	5	2 2		••	119
501 to 750	54	54	10	9	3	2	• •	1	133
751 to 1,000 .	25	16	4	6	1	3		• •	55
Over 1,000	45	27	5	12	2	4			95
Total .	24,884	18,030	6,154	6,255	5,404	1,797	188	242	62,954
	NUMBE	R EMPL	OYED D	URING F	PERIOD C	OF OPER	ATION		
Under 4	19,155	11,624	4,274	5,483	4,796	1,380	123	160	46,995
4	7,740	6,140	2,464	1,888	1,928	648	80	116	21,004
5 to 10	39,384	30,744	11,077	8,363	7,758	2,949	429	415	101,119
11 to 20	44,256	37,579	12,208	9,960	7,999	3,248	345	678	116,273
21 to 50	69,720	62,871	17,715	14,452	13,616	5,004	356	719	184,453
51 to 100	57,837	57,913	15,937	13,550	10,711	3,183	201	348	159,680
101 to 200 .	62,719	65,227	16,221	13,983	7,511	3,911	••	106	169,678
	33,409	38,070	12,727	5,185	4,270	2,722	••	483	96,866
201 to 300			4,982	5,766	1,648	360	••	••	64,063
201 to 300 301 to 400	25,902	25,405							53.046
201 to 300 301 to 400 401 to 500	18,609	19,832	6,719	4,828	2,177	881		_ : :	
201 to 300 301 to 400 401 to 500 501 to 750	18,609 32,993	19,832 32,850	6,719 6,648	5,219	1,798	1,084		708	81,300
201 to 300 . 301 to 400 . 401 to 500 . 501 to 750 . 751 to 1,000 .	18,609 32,993 21,595	19,832 32,850 13,610	6,719 6,648 3,268	5,219 5,072	1,798 835	1,084 2,595		708	81,300 46,975
201 to 300 301 to 400 401 to 500 501 to 750	18,609 32,993	19,832 32,850	6,719 6,648	5,219	1,798	1,084			81,300
201 to 300 . 301 to 400 . 401 to 500 . 501 to 750 . 751 to 1,000 .	18,609 32,993 21,595	19,832 32,850 13,610	6,719 6,648 3,268	5,219 5,072	1,798 835	1,084 2,595	•••	••	81,300 46,975

FACTORIES: NUMBER OF FACTORIES AND PERSONS EMPLOYED, BY SIZE OF FACTORY STATES AND TERRITORIES, 1967-68

Classes of industry

FACTORIES: NUMBER OF FACTORIES AND PERSONS EMPLOYED, BY SIZE OF FACTORY AND CLASS OF INDUSTRY, AUSTRALIA, 1967-68

	Factories	mploying o	n the averag	e—				
	20 and und	ler	21 to 100		101 and up	wards	Total	
Class of industry	Factories	Persons employed	Factories	Persons employed	Factories	Persons employed	Factories	Persons employed
1. Treatment of non-metal-								
liferous mine and quarry		7 604	163	6 000	47	12 410	1 (24	26.02
products	1,425	7.594	163 195	6, 822 8,941	47 58	12,418	1,635	26,834
2. Bricks, pottery, glass, etc.	406	3,227	195	8,941	28	15,075	659	27,243
3. Chemicals, dyes, explo-	939	5,979	310	14.238	130	34,983	1,379	55,200
sives, paints, oils, grease	939	5,979	510	14,230	130	34,983	1,379	33,200
4. Industrial metals, machines,	25.267	128,471	3,035	125,830	911	374,652	29,213	628,953
conveyances 5. Precious metals, jewellery,	25,207	120,471	3,035	125,650	911	574,052	29,213	020,955
plate	926	3,708	54	1,791	4	664	984	6,163
6. Textiles and textile goods	920	3,708	74	1,751		004	704	0,102
(not dress)	780	5,661	379	17.333	173	51,237	1,332	74,231
7. Skins and leather (not	700	5,001	517	17,555	175	51,257	1,554	14,451
clothing or footwear)	462	2,898	124	5,370	17	3.230	603	11.498
8. Clothing (except knitted)	5.699	29,175	1,084	45.930	182	37.159	6.965	112.264
9. Food, drink and tobacco.	5,500	30,258	897	39,821	292	76,389	6,689	146.468
10. Sawmills, joinery, boxes,	2,200	50,250	0,,,	07,021	-/-	.0,207	0,005	140,100
etc., wood turning and								
carving .	4,674	27,888	603	23.354	59	9.854	5,336	61.096
11. Furniture of wood, bed-	.,	2.,000		,		,,	0,000	,
ding, etc.	1.965	10,217	285	11,046	25	4.053	2.275	25.316
12. Paper, stationery, printing,		,					-,	
bookbinding, etc.	2,290	16.848	640	27,114	155	46.816	3.085	90,778
13. Rubber	558	2.974	54	2.240	36	15,928	648	21.142
14. Musical instruments	60	279	8	346	2	207	70	832
15. Miscellaneous products	1,419	8,960	267	11,680	60	15,052	1,746	35,692
Total, classes 1 to 15 .	52,370	284,137	8,098	341,856	2,151	697,717	62,619	1,323,710
16. Heat, light and power	244	1,254	49	2,277	42	12,364	335	15,895
Total, all classes	52,614	285,391	8,147	344,133	2,193	710,081	62,954	1,339,605

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Employment in factories

Number employed

All persons employed in the manufacturing activities of a factory are counted as factory employees. The figures relating to employment, therefore, exclude all those engaged in selling and distribution, such as salesmen, travellers collectors, carters engaged solely on delivery of manufactured goods, and retailing storemen. The figures, however, do include proprietors who work in their own business, as well as 'out-workers' (*see* page 719). From 1960 61 the occupational groupings collected have been—(i) working proprietors; (ii) managerial and clerical staff including salaried managers and working directors; (iii) chemists, draughtsmen and other laboratory and research staff; and (iv) foremen and overseers; workers in factory and others, in which were amalgamated the three former groups—(iv) foremen and overseers; (v) skilled and unskilled workers; (vi) carters (excluding delivery only), messengers, and persons working regularly at home.

Statistics of factory employment represent the equivalent average number employed over a full year of fifty-two weeks except for the classification of factories according to size (see page 716), which is based on the average number employed during the period of operation.

Particulars of the numbers employed in Australia are given in the table below.

FACTORIES: EMPLOYMENT, AUSTRALIA(a) 1963-64 TO 1967-68

Year			Males	Females	Persons
1963-64			918,130	291,790	1,209,920
1964-65			957,261	311,674	1,268,935
1965-66			973,411	320,412	1,293,823
1966-67			982,907	326,301	1,309,208
1967 68			998,674	332.473	1.331.147

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

The following table shows the average number of persons employed in manufacturing industries: the percentage for each State and Territory of the total number employed in factories in Australia; and the number so employed per thousand of mean population in each State and Australia.

FACTORIES: EMPLOYMENT	STATES AND	TERRITORIES.	1963-64 TO 19	67-68

Year	N.S.W.	Vic.	Qld	S.A.	<i>W.A</i> .	Tas.	.N.T.	A.C.T.	Aust.(a)
Average number employed during full year (fifty-two weeks)—									
10/3 /4	487,753	413,120	110,696	110.813	55,705	31,833	n.a.	n.a.	1.209.920
1964-65	508,979	432.413	116,246	116,183	58,097	32,580	1,210	3,227	1.268.935
	519,364	439,149	117,581	118,343	60,282	34,315	1.294	3,495	1,293,823
	524,054	445,307	117,937	118,220	63,757	34,879	1.423	3,631	1,309,208
1967-68	531,185	449,945	120,852	121,417	67,335	35,178	1,519	3,716	1,331,147
Percentage of Australian total	n								
	40 31	34.14	9.15	9,16	4 60	2 63	n.a.	n.a.	100
	40 11	34.08	9.16	9.15	4 58	2.57	0.10	0 25	100
1018 11	40.14	33.94	9.09	9.15	4.66	2.65	0 10	0.27	100
10// /7	40 03	34.01	9.01	9.03	4 87	2,66	0.11	0.28	100
1967-68	. 39.91	33.80	9.08	9,12	5.06	2.64	0,11	0.28	100
Per 1,000 of population-									
1042 44	. 120	134	69	108	7()	88	n.a.	n.a.	111
1964-65	. 123	138	71	110	71	89	2.3	38	113
inie II	. 123	137	71	109	72	93	23	38	113
1965-00				107	74	43	25	34	112
10// /7	. 123	137	70	107	/4			36	

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Persons employed, by class of industry

Class of industry	1963-64	1964-65	1965-66	1966-67	1967-68
1. Treatment of non-metalliferous mine and					
quarry products	24,704	25,683	26,011	26,104	26,685
2. Bricks, pottery, glass, etc.	25,656	27,002	27,177	26.974	27.17
3. Chemicals, dyes, explosives, paints, oils,	,	,			,
grease	49.023	51,498	53,111	54,629	55,053
4. Industrial metals, machines, conveyances	552,795	588,022	601,637	611,614	626,280
5. Precious metals, jewellery, plate	5,543	5,900	5,926	5,990	6,108
6. Textiles and textile goods (not dress) .	73,076	75,281	74,708	73,036	73,804
7. Skins and leather (not clothing or footwear)	12,209	12,026	11,807	11,355	11.45
8. Clothing (except knitted)	108,909	110,613	111,793	111,909	111,040
9. Food, drink and tobacco	134,487	138,768	142,153	143,510	144.44
10. Sawmills, joinery, boxes, etc., wood turning				,	
and carving	57,650	59,815	60,642	59,976	60,274
11. Furniture of wood, bedding, etc.	22,545	23,251	23,740	24,390	25,05
12. Paper, stationery, printing, bookbinding, etc.	79,250	83,692	87,129	89,192	90.56
13. Rubber	20,261	20,813	20,416	20,198	21.11
14. Musical instruments	779	785	764	824	83
15. Miscellaneous products	27,422	30,057	31,154	33,431	35,469
Total, classes 1 to 15	1,194,309	1,253,206	1,278,168	1,293,132	1,315,34
16. Heat, light and power	15,611	15,729	15,655	16,076	15,80
Total all classes	1,209,920	1,268,935	1,293,823	1,309,208	1,331,14

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED, BY CLASS OF INDUSTRY, AUSTRALIA(a), 1963-64 TO 1967-68

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED, BY CLASS OF INDUSTRY, STATES AND TERRITORIES, 1967-68

Class of industry(a)	N.S.W.	Vic.	Qid	S.A.	W.A.	Tas.	N.T .	A.C.T.	Aust.
1. Treatment non-metal.									
mine, etc. products .	10.388	7.560	3.116	2,255	2,129	888	127	222	26.685
2. Bricks, etc.	13.168	7.692	1,979	2,013	1,796	359	12	152	27,171
3. Chemicals, etc.	27,318	17,892	2,431	3,253	3,209	920	23		55.053
4. Industrial metals,			-,		0,200				
machines, etc.	267,936	192.073	47,703	72,643	31,694	12,155	870	1.206	626,280
5. Jewellery, etc.	2,376	2,218	365	572	288	47		242	6,108
6. Textiles, etc .	20,997	43,077	2.157	2.829	758	3,986			73,804
7. Skins, leather, etc.	5,074	3,715	1,078	994	549	48			11,458
8. Clothing, etc.	44,418	49,027	8,489	5,162	3,015	726	22	181	111,040
9. Food, drink, etc.	44,357	44,143	28,420	12,264	9,340	5,413	193	311	144,441
10. Sawmills, etc.	19,629	15,724	9,036	5,546	6.084	3,919	78	258	60.274
11. Furniture, etc.	9,805	7,167	3,249	2,261	1,840	672	14	47	25.055
12. Paper, stationery, etc.	36,222	30,991	7,477	5,724	3,722	5,314	60	1,053	90,563
13. Rubber	8,202	8,503	1,983	1,724	508	139	15	37	21,111
Musical instruments .	540	216	22	24	29		••		831
15. Miscellaneous	15,652	15,060	1,256	2,329	1,010	162	••	••	35,469
Total, classes 1 to 15 .	526,082	445,058	118,761	119,593	65,971	34,748	1,414	3,716	1,315.343
16. Heat, light and power	5,103	4,887	2,091	1,824	1,364	430	105		15,804
Total all classes	531,185	449,945	120,852	121,417	67,335	35,178	1,519	3,716	1,331,147

(a) For full titles see table above.

Persons employed, by occupational grouping

Average number of persons employed _· ___ Foremen and overscers, Managerial Chemists, workers in Working and clerical draughtsmen, factory and State or Territory proprietors staff, etc. others(a) etc. Total _ __ __.... . . . ----· -· -New South Wales . 13.825 78,755 12,183 426,422 531.185 63.164 Victoria 12.025 10,189 364.567 449,945 . Queensland . 4,690 15,216 1,704 99,242 120,852 South Australia 16,206 3,997 2.787 98,427 121.417 3,455 Western Australia . 7,706 914 55,260 67.335 975 4,204 715 Tasmania 29,284 35,178 Northern Territory 88 238 1.189 1.519 4 Australian Capital Territory 156 629 27 2,904 . 3,716 . . . 32,906 114,791 Total males 25,447 825,530 998,674 Total females 6,305 71,327 3.076 . 251,765 332.473 Total persons 39,211 186,118 28,523 1,077.295 1.331.147 . .

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED. BY OCCUPATIONAL GROUPING STATES AND TERRITORIES, 1967-68

(a) Includes persons working regularly at home.

The term 'outworker' or 'homeworker' has acquired a special meaning in connection with manufacturing industries, and includes only persons to whom work is given out by factories to be done at home. Persons working regularly at home for factories are included in the group foremen, overseers, workers in factory, and others, and separate details are not available.

Distribution of employees according to age

The following table shows the number of each sex employed in Australia in each age group on the last pay day in June.

FACTORIES: DISTRIBUTION OF EMPLOYEES, BY AGE AND SEX, AUSTRALIA(a) JUNE 1964 TO JUNE 1968 Excluding Working Proprietors

			Males			Females			Persons		
June-	-		Under 16 vears	16 and under 21 years	21 years and over	Under 16 years	16 years under 21 years	21 years and over	Under 16 years	16 and under 21 years	21 years and over
1964		-	8,632	100,164	792,711	7,130	55,533	228,170	15,762	155,697	1,020,881
1965			7.614	104,477	821,711	5,920	57,226	245,437	13.534	161,703	1.067.148
1966		÷	6,690	105,902	827,971	5,364	56,104	251,428	12,054	162.006	1.079.399
1967			5,703	107,285	842,097	5,005	54,727	262.494	10.708	162.012	1.104.591
1968			4,963	105.691	862,678	4,387	52,546	270,786	9.350	158.237	1.133.464

(a) Refore 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Distribution of sexes in factories

Average number of males and females employed

				1963-64 TC				
State or Territory				1963-64	1964-65	1965-66	1966-67	196768
				MAL	.ES			
New South Wales				366,250	379,672	387,181	390,087	395,838
Victoria .				295,440	307,006	310,303	314,017	316,108
Queensland .				91,123	95,328	96,150	96,082	98,027
South Australia				90,933	94,690	96,194	96,076	98,929
Western Australia				48,163	50,065	51,464	53,981	56,835
Tasmania .				26,221	26,768	28,041	28,364	28,550
Northern Territory	/			n.a.	1.098	1,182	1,308	1,380
Australian Capital		у.		n.a.	2,634	2,896	2,992	3,007
Australia(a)	• • •		•	918,130	957,261	973,411	982,907	998,674
				FEMA	LES			
New South Wales				121,503	129,307	132,183	133,967	135,347
Victoria .	• •	•	·	117,680	125,407	128,846	131,290	133,837
	• •	•	•					
Queensland .	• •	•	•	19,573	20,918	21,431	21,855	22,825
South Australia	• •	·	•	19,880	21,493	22,149	22,144	22,488
Western Australia	• •	•	•	7,542	8,032	8,818	9,776	10,500
Tasmania .	• •	·	·	5,612	5,812	6,274	6,515	6,628
Northern Territory		•	•	n.a.	112	112	115	139
Australian Capital	Territor	у.	•	n.a.	593	599	639	709
Australia(a)	• •	•	•	291,790	311,674	320,412	326,301	332,473
		MAS	CULIN	ITY(b) OF F	PERSONS EN	APLOYED		
New South Wales				301	294	293	291	292
Victoria .				251	245	241	239	236
Queensland .	• •			466	456	449	440	429
South Australia	· .			457	441	434	434	440
Western Australia				639	623	584	552	541
Tasmania .				467	461	447	435	431
Northern Territory	v			n.a.	980	1.055	1,137	993
Australian Capital		y.	•	n.a.	444	483	468	424
			-					12.1
-								

FACTORIES: MALES AND FEMALES EMPLOYED, STATES AND TERRITORIES 1963-64 TO 1967-68

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory. (b) Number of males per 100 females.

Employment of females in particular industries

The majority of females in manufacturing industries are employed in four classes, namely: 4, Industrial metals, machines, etc.; 6, Textiles; 8, Clothing; and 9, Food, drink and tobacco. In 1967-68 these industries accounted for 76.75 per cent of all females in factories. In two classes only did the number of females exceed the number of males—in Class 6, Textiles, where there were 137 females to every 100 males, and in Class 8, Clothing, with 300 females to every 100 males. The following table shows the average number of males and females employed in each of the four classes.

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	<u>N.T.</u>	A.C.T.	Aust.
Males-									
Industrial metals, etc. Textiles and textile goods	228,877	162,487	43,729	64,263	29,495	11,357	807	1,100	542,115
(not dress)	9,024	17,696	915	1,313	368	1,772			31,088
Clothing (except knitted)	10,295	12,731	1.970	1,656	767	281	13	56	27,769
Food, drink and tobacco	29,623	28,826	22,507	7,940	6,515	3.651	158	216	99,436
All other classes	118,019	94,368	28,906	23,757	19,690	11,489	402	1,635	298,266
Total males	395,838	316,108	98,027	98,929	56,835	28,550	1,380	3,007	998,674
Females									
Industrial metals, etc.	39,059	29,586	3,974	8,380	2,199	798	63	106	84,165
Textiles and textile goods									
(not dress)	11,973	25,381	1,242	1,516	390	2,214			42,716
Clothing (except knitted)	34,123	36,296	6,519	3,506	2,248	445	9	125	83,271
Food, drink and tobacco .	14,734	15,317	5,913	4,324	2,825	1,762	35	95	45,005
All other classes	35,458	27,257	5,177	4,762	2,838	1,409	32	383	77,316
Total females	135,347	133,837	22,825	22.488	10,500	6,628	139	709	332,473

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES STATES AND TERRITORIES, 1967-68

Salaries and wages paid, value of materials used, output, and production

In all tables relating to salaries and wages paid in factories the amounts drawn by working proprietors are excluded.

The gross value of factory output for 1967-68 was \$17,094 million, of which \$9,104 million (53.3 per cent) was the value of the materials used, including containers, etc., tools replaced, and repairs to plant and buildings, and \$559 million the value of the power, fuel, light, water, and lubricating oil used. The difference between the sum of the last two amounts and the gross value of output, namely, \$7,431 million, represents the net value of factory production, defined as 'the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production'. Depreciation, however, is not deducted (*see* page 727). The gross value of factory output and the value of materials used each contain inherent elements of duplication, as the output of some factories becomes the materials used in other factories.

Salaries and wages paid

By class and industry

FACTORIES: SALARIES AND WAGES PAID, BY CLASS OF INDUSTRY STATES AND TERRITORIES, 1967-68 (\$'000)

Class of industry(a) N.S.W. Vic. Qld S.A. W.A. Tas. N.T.A.C.T. Aust. 1. Treatment non-metal, 23,989 23,275 9.560 6,654 5,818 10,039 6,202 mine, etc. products Bricks, etc. 34.510 2.727 424 873 84,938 82,699 5,878 7,551 23.275 59,759 5,334 40,807 1,044 (b) 2 (b) 3,269 3. Chemicals, etc. 4. Industrial metals, 88,894 (b) (h) 180,180 801,962 570,717 209,538 85,426 35,538 machines, etc. . 124,210 2.919 3,515 924 1,833,825 5,493 99,945 5. 5,148 49,189 12,030 726 4,305 2,617 1,049 529 88 8,859 Jewellerv. etc. 13.956 Textiles, etc.
 Skins, leather, etc. Textiles, etc. 170,302 27,810 6,444 2,675 1,296 4,340 22,575 121 1,223 3,591 9.070 8. Clothing, etc.
 9. Food, drink, etc.
 10. Sawmills, etc. 82,053 117,308 96.531 12,980 47 348 206,086 29,242 12,794 4,563 592 250 (b) 118,363 76,920 814 379 405 50,812 24,338 107,501 9,655 150,131 57,964 40 307 20 130 15 402 781 16,809 6,891 3,886 (6) 11. Furniture, etc. 15,440 5,590 16.543 265.422 12. Paper, stationery, etc. 92 314 20,102 10.044 185 3,292 1,352 26.085 62.601 13. Rubber 24.068 4,992 112 48 Musical instruments . 581 1388 2,097 43,390 15. Miscellaneous 41,256 2.870 5,267 2,042 304 95,130 323.713 Total, clusses 1 to 15 1,481,266 1,226,628 299.768 170,567 94,646 4,673 11,285 3,612,546 16. Heat, light and power 16.801 17.588 6.187 6.347 4,534 1,590 310 53,357 Total, all classes 1,498,067 1,244,216 305.955 330.060 175.100 96.236 4,983 11,285 3,665,902

(a) For full titles see table on page 723. (b) Not available for publication.

Totals and averages. The following table shows the total amount of salaries and wages paid, and the average amount paid, according to sex, per employee in each State and Territory. The figures exclude working proprietors and the amounts drawn by them.

In comparing the figures in the following table regard should be paid to the nature of certain industries which are carried on to a greater extent in some States than in others. In Victoria, for instance, there are a large number of employees in Class 8, Clothing, comprising a relatively high percentage of women and children.

Year		N.S.W.	Vic.	Qld	S.A.	<i>W.A</i> .	Tas.	N.T.	A.C.T.	Aust.(a)
					MALES					
Total amount p (\$'000)—	aid									
1963-64 1964-65 1965-66 1966-67 1966-67	•	927,806 1,034.044 1,092,517 1,174,476 1,258,255	747,177 840,704 877,256 949,745 1,011,261	196,484 226,329 239,885 251,545 272,301	215,127 245,565 252,260 266,640 295,065	99,978 110,368 123,022 140,114 159,487	63,007 68,183 73,932 80,685 85,329	n.a. 3,298 3,666 4,146 4,721	n.a. 7,854 8,819 9,306 9,968	2,249,580 2,536,347 2,671,358 2,876,656 3,096,386
Average per m employee (\$)-										
1963-64 1964-65 1965-66 1965-66 1966-67 1967-68	•	2.618 2,812 2,913 3,105 3,277	2,621 2,833 2,921 3,120 3,299	2,254 2,476 2,600 2,725 2,888	2,457 2,689 2,720 2,880 3,092	2,201 2,337 2,538 2,755 2,974	2,491 2,644 2,730 2,939 3,085	n.a. 3.242 3,333 3,354 3,623	n.a. 3,091 3,172 3,238 3,462	2.542 2.746 2.843 3.028 3,206
					FEMALES					
Total amount parts (\$'000)	aid									
1963–64 1964–65 1965–66 1966–67 1966–67	• • •	173,214 195,912 211,163 225,270 239,812	165,247 187,788 199,977 217,693 232,956	22,278 26,029 28,160 30,664 33,654	25,188 28,659 30,691 32,466 34,995	8,537 9,609 11,149 13,483 15,613	7,575 8,332 9,030 10,071 10,908	n.a. 185 192 203 263	n.a. 848 1,047 1,177 1,317	402,040 457,362 491,411 531,027 569,516
Average per fem employee (\$)-										
1963-64 . 1964-65 . 1965-66 . 1966-67 . 1967-68 .	• • •	1,448 1,537 1,623 1,708 1,798	1,432 1,526 1,584 1,691 1,773	1,182 1,290 1,369 1,462 1,538	1,312 1,372 1,420 1,502 1,592	1,163 1,228 1,295 1,411 1,522	1,367 1,454 1,457 1,567 1,668	n.a. 1,799 1,904 1,972 2,051	n.a. 1,469 1,806 1,904 1,933	1,406 1,496 1,565 1,660 1,746
					PERSONS					
Total amount pa (\$'000)—	aid									
1963-64 . 1964-65 . 1965-66 . 1966-67 . 1967-68 .	•	1,101,021 1,229,957 1,303,680 1,399,746 1,498,067	912.424 1.028,492 1.077,234 1.167,437 1.244,216	218,762 252,358 268,046 282,209 305,955	240,315 274,225 282,951 299,105 330,060	108,515 119,978 134,171 153,597 175,100	70,582 76,515 82,963 90,756 96,236	n.a. 3,483 3,859 4,349 4,983	n.a. 8,702 9,866 10,483 11,285	2.651,620 2.993,709 3,162,769 3,407,683 3,665,902
Average per employee (\$)-	_									
1963-64 . 1964-65 . 1965-66 . 1966-67 . 1967-68 .	• • •	2,323 2,484 2,581 2,744 2,896	2,278 2,450 2,525 2,696 2,841	2,064 2,262 2,376 2,491 2,634	2,251 2,444 2,474 2,619 2,811	2,057 2,180 2,351 2,543 2,741	2.290 2.427 2,493 2,678 2,814	n.a. 3,110 3,213 3,248 3,482	n.a. 2,791 2,936 3,002 3,170	2,265 2,435 2,523 2,684 2,838

FACTORIES: TOTAL AND AVERAGE SALARIES AND WAGES PAID STATES AND TERRITORIES, 1963-64 TO 1967-68

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

The following table shows, by class of industry, the amounts paid to managerial and clerical staff, including salaried managers and working directors, chemists, draughtsmen and other laboratory and research staff, and those paid to other employees. Amounts drawn by working proprietors are excluded in all cases.

FACTORIES: SALARIES AND WAGES PAID TO MANAGERS, CLERICAL STAFF, ETC. AND OTHER EMPLOYEES, BY CLASS OF INDUSTRY, AUSTRALIA, 1967-68

nployees	All other em	ists,	Managers, staff, chem draughtsme							
Females	Males	Females	Males							uss of industry
\$'000	\$ `000	\$`000	\$'000							
• • • • •			-		uarry	and a	mine z	mous	non-metallife	Treatment of r
381	67,937	2.394	14,226							products .
3,190	67,141	2,165	10,203						v. glass, etc.	Bricks, pottery
12.819	108.349	10.655	48.357	-						Chemicals, dyc
87,507	1.355,680	63,546	327,091							Industrial meta
1.364	9.876	640	2.076							Precious metal
66,297	76.938	7,602	19,465	•						Textiles and te
5.806	17.711	911	3,383							Skins and leat
126,914	52.285	9,290	17,597	•						Clothing (exce
57.092	243,914	18,718	59,682	•						Food, drink a
51,072	273,717	10,710	57,002	ind						Sawmills, join
2,826	124.002	4.241	19,062		-				•	
6,989	41,075	2,743	7,157	•					wood beddie	Furniture of w
29,287	181,969	12,664	41,502	•						Paper, statione
5,853	43,473	2.396	10,878	·	c .					
335	1,404	103	256	•	•	·	·	·		. Musical instru
	52,692	5,817	17,982	•	•	•	·	•		
18,638	52,092	5,617	17,902	·	•	·	•	•	s products	. Miscellaneous
425,299	2,444,446	143,883	598,918	•	•	•	•		1 to 15	Total, classes i
59	46,978	275	6,044						nd power	Heat, light and
425,358	2,491,423	144,158	604,9 63						lasses .	Total, all cl
\$ 1,690	\$	\$	\$							
	3,018	1,938	4,314	•	•			•	employee	erage paid per e

Power, fuel and light used

Value by class of industry

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a), BY CLASS OF INDUSTRY STATES AND TERRITORIES, 1967-68

(\$'000)

Class of industry(b)	N.S.W.	Vic.	Qld	S.A.	<i>W.A</i> .	T'as.	.N.T.	A.C.T.	Aust.
I. Treatment non-									
metalliferous mine, etc.		(()0	1						
products	. 12,714	6,628	3,021	2,272	1,883	1,131	27	53	27,728
2. Bricks, etc.	. 10,416	6,622	1,811	1,749	2,034	435	(c)	(c)	23,268
3. Chemicals, etc.	. 28,234	21.313	3,512	4,779	5,360	1,083	(c)	(c)	64,375
4. Industrial metals, etc.	. 125,799	34,950	11,244	27,512	7,153	9,304	74	61	216,098
5. Jewellery, etc.	. 397	467	51	116	80	6	•	186	1.304
6. Textiles, etc.	4,039	7,268	278	532	161	659	· · ·	• •	12,938
7. Skins, leather, etc.	. 843	942	218	278	152	12	· <u>-</u>	2 :	2.444
8. Clothing, etc.	2,223	2,578	429	342	198	85	5	26	5,886
9. Food, drink, etc.	15,722	16,624	8,962	3,392	3,162	1,747	146	78	49,834
10. Sawmills, etc.	3,389	2,280	1,428	960	947	954	8	17	9,984
11. Furniture, etc.	. 593	421	136	120	84	34	(c)	(c)	1,391
Paper, stationery, etc.	. 5,463	8,174	1,341	2,039	701	3,699	14	171	21,602
13. Rubber	. 2,491	3,370	512	588	147	42	8	17	7,173
Musical instruments	. 85	27	2	1	1				115
 Miscellaneous 	. 2,572	4,142	144	287	116	12			7,272
Total, classes 1 to 15	. 214,979	115,808	33,086	44,967	22,180	19,206	359	830	451,414
16. Heat, light and power	. 37,661	27,278	18,785	11,238	11,381	279	798	••	107,421
Total, all classes	252,639	143,086	51,871	56,205	33,561	19,485	1,157	830	558,834

(a) Includes value of lubricants and water. (b) For full titles see table above. (c) Not available for publication.

MANUFACTURING INDUSTRY

FACTORIES: TOTAL VALUE OF POWER, FUEL AND LIGHT USED(a) BY CLASS OF INDUSTRY, AUSTRALIA(b), 1963-64 TO 1967-68

(\$'000)

Class of industry	1963-64	1964-65	1 9656 6	1966-67	1967-68
1. Treatment of non-metalliferous mine a	ind				
quarry products	. 24,245	26,575	26,455	26,987	27,728
2. Bricks, pottery, glass, etc	. 19,761	20,552	20,337	21,128	23,268
3. Chemicals, dyes, explosives, paints, oils, gre	ase 45,500	50,468	52,557	57,864	64,375
4. Industrial metals, machines, conveyances	. 158,843	171,268	180,606	199,444	216,098
5. Precious metals, jewellery, plate .	. 851	1,052	1,132	1,190	1,304
6. Textiles and textile goods (not dress) .	. 10,840	11,271	11,630	12,059	12,938
7. Skins and leather (not clothing or footwe	ar) 2,428	2,424	2,358	2,321	2,444
8. Clothing (except knitted)	5,227	5,452	5,545	5,770	5,886
9. Food, drink and tobacco .	. 41,577	43,967	46,025	47,545	49,834
10. Sawmills, joinery, boxes, etc., wood turn	ing				
and carving	8,553	9,257	9,373	9,539	9,984
11. Furniture of wood, bedding, etc.	1,096	1,156	1,218	1,285	1,391
12. Paper, stationery, printing, bookbinding, o	etc. 15,843	17,280	18,551	20,550	21,602
13. Rubber	. 6,285	6,386	6,550	6,838	7,17
14. Musical instruments	. 96	95	91	105	112
15. Miscellaneous products	. 4,672	5,304	5,577	6,314	7,272
Total, classes 1 to 15	. 345,818	372,506	388,007	418,940	451,414
16. Heat, light and power	. 91,335	94,127	99,337	103,360	107,42
Total, all classes	. 437,153	466,633	487,343	522,300	558,834

(a) Includes value of lubricants and water. (b) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Total value

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a), STATES AND TERRITORIES 1963-64 TO 1967-68

(\$'000)

Year	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.(b)
1963-64	 210,157	114,648	37,462	34,772	23,749	16,364	n.a.	n.a.	437,153
1964-65	217,548	125,161	38,749	39,295	26,045	18,327	865	644	466,633
1965-66	223,517	127,858	43,791	44,066	27,314	19,181	856	760	487,343
1966-67	238,113	134,399	46,949	51,302	30.031	19.826	946	735	522,300
1967-68	252,639	143,086	51,871	56,205	33,561	19,485	1,157	830	558,834

(a) Includes value of lubricants and water. (b) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Value of items

FACTORIES: VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED(a) STATES AND TERRITORIES, 1967-68 (\$'000)

Item of power, fuel, etc.	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Coal, black	39,219	2,444	21,977	(b)7,416	5,540	564		94	77,254
"brown	2	19,760		(c)					19,763
Brown coal briquettes	10	9,937		(c)		(c)		(c)	9,947
Coke	47,620	1,106	1,159	12,684	632	686			63.887
Wood	675	542	379	460	582	85	2	(c)	2,726
Fuel oil	32,160	27,480	8,823	13,512	13.035	5,191	838	179	101.219
Tar (fuel)	2,653	163	14	117	47	14	29	2	3.038
Electricity .	77,657	63,558	14,549	16,014	8,935	11,366	219	486	192,784
Gas	23,545	4,710	527	2,105	267	92	(c)	(c)	31.247
Other (charcoal, etc.)	13,912	3,122	767	1.083	2,554	653	Ĩ	~ ~ ~	22.101
Water	10,928	7,249	2,458	1,806	1.219	546	32	35	24,273
Lubricating oils	4,259	3,014	1,217	1,009	749	287	35	26	10,595
Total	252,639	143,086	51,871	56,205	33,561	19,485	1,157	830	558,834

(a) Includes value of lubricants and water. (b) Includes \$5,815,603 the value of 2,078,280 tons of sub-bituminous Leigh Creek coal. (c) Less than \$500.

Quantities	of fuel	used
Quantines	0)]	11.50.14

Fuel		N.S.W.	Vic.	Qld	S.A .	W.A.	Tas.	N.T.	A.C.T.	Aust.
Coal, black	 '000 tons	8,118	241	2,802	(a)2,235	912	56		6	14,370
,, brown Brown coal	••	1	18,190		(b)		• •	• •	• •	18,191
briquettes		1	855		(b)		(b)		(b)	856
Coke .		2,821	45	32	598	23	19			3,537
Wood .		138	133	94	235	158	35	(b)	(b)	792
Fuel oil .	'000 gal	459.771	375,696	119,532	190,774	189,613	67.314	8.483	1.306	1,412,489
Tar (fuel)	'000 tons	164	8	1	10	1	<u> </u>	3	(b)	190

FACTORIES: QUANTITIES OF FUEL USED, STATES AND TERRITORIES, 1967-68

(a) Includes 2,078,280 tons of Leigh Creek coal. (b) Less than 500 tons.

Value of materials used

By class of industry. The value of materials used includes the value of containers, packing, etc., the cost of tools replaced, and repairs to plant.

FACTORIES: VALUE OF MATERIALS USED, BY CLASS OF INDUSTRY STATES AND TERRITORIES, 1967-68 (\$'000)

Class of industry(a)	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
1. Treatment non-									
metalliferous mine,									
etc. products	136.295	63,703	22,813	17,981	18,342	5,978	1,549	3,586	270,249
2. Bricks, etc.	40,768	25,138	5,334	5,956	3,849	700	(b)	(<i>b</i>)	82,482
Chemicals, etc.	445,473	320,707	75,981	63,339	98.854	9,342	(b)	(b)	1,014,123
4. Industrial metals, etc.	1,758,591	946,395	319,829	450,916	158,212	71,091	3,313	4,234	3,712,583
5. Jewellery, etc.	6,681	5,815	729	877	392	72		1,463	16,030
6. Textiles, etc.	119,996	238,882	9.254	11.949	4,959	19,200			404,240
7. Skins, leather, etc.	30,343	19,170	5.081	10,006	1,653	686			66,939
8. Clothing, etc.	138,787	139,926	14.511	10.127	4,467	1.048	29	219	309,113
9. Food, drink, etc.	531,204	596,795	503,808	131.253	111.632	61,749	1.411	2,559	1.940.410
10. Sawmills, etc.	116,588	80,082		26,809	29,298	23,978	423	1.321	317.488
11. Furniture, etc.	48,123	34,615	14,646	9.212	8,903	2,702	(b)	(b)	118.581
12. Paper, stationery, etc.	200,791	186.814	35,322	26,666	15,775	28,862	99	1.695	496,025
13. Rubber	49,466	54.136		9,197	3,254	732	<u> 97</u>	420	128.027
14. Musical instruments	2.855	694		15	14				3,614
15. Miscellaneous	69,753	87,290		10.218	3,423	195	• •	••	
15. Miscenaneous	09,755	67,290	5,410	10.216	3,423	193	• •	• •	176,289
Total, classes 1 to 15	3,645,714	2,800,162	1.062,468	784,522	463,028	226,337	7,581	16,382	9,056,193
16. Heat, light and power	17,181	13,262	10,076	3,496	2,526	1,236	414		48,190
Total, all classes .	3,712,895	2,813,424	1,072,543	788,018	465,554	227,573	7,995	16,382	9,104,383

(a) For full titles see table below. (b) Not available for publication.

FACTORIES: VALUE OF MATERIALS USED, BY CLASS OF INDUSTRY, AUSTRALIA(a) 1963-64 TO 1967-68

(\$'000)

Class of industry	196364	1964-65	1965-66	1966 67	1967-68
I. Treatment of non-metalliferous mine and			······		
quarry products	193,603	219,634	232,826	245,768	270,249
2. Bricks, pottery, glass, etc.	59,540	69,275	69,239	75,127	82,482
3. Chemicals, dyes, explosives, paints, oils grease	726,437	802,349	850,221	933,329	1,014,123
4. Industrial metals, machines, conveyances	2,713,241	3,102,783	3,213,745	3,422,377	3,712,583
5. Precious metals, jewellery, plate	11,459	14,195	14,405	14,911	16,030
6. Textiles and textile goods (not dress)	355,503	374,764	370,844	394,860	404,240
7. Skins and leather (not clothing or footwear).	75,641	72,518	73,642	73,288	66,939
8. Clothing (except knitted)	265,805	280,195	282,823	304,160	309,113
9. Food, drink and tobacco	1,560,847	1,652,933	1,728,394	1,837,269	1,940,410
10. Sawmills, joinery, boxes, etc., wood turning					
and carving .	255,936	282,792	286,639	299,345	317,488
11. Furniture of wood, bedding, etc.	94,283	104,177	104,168	109,226	118,581
12. Paper, stationery, printing, bookbinding, etc.	367,028	409,999	431.037	462,333	496,025
13. Rubber	109.355	119,250	118,436	119,819	128.027
14. Musical instruments	3,031	3,336	3,161	3,797	3.614
15. Miscellaneous products	105,742	122,921	126,339	151,070	176,289
Total, classes 1 to 15	6,897,451	7,631,121	7,905,917	8,446,680	9,056,193
16. Heat, light and power	38,078	42,847	44,698	46,864	48,190
Total, all classes	6,935,530	7,673,967	7,950,615	8,493,544	9,104,383

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Total amount

	(\$'000)										
Year			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust(a)
1963–64 1964–65 1965–66 1966–67 1967–68			2,859,622 3,212,677 3,266,547 3,466,134 3,712,895	2,190,398 2,425,961 2,469,372 2,671,315 2,813,424	812,924 824,681 924,427 982,896 1,072,543	599,658 668,946 698,996 728,094 788,018	300,798 329,740 362,634 399,406 465,554	172,130 195,972 209,794 223,566 227,573	n.a. 4,550 5,497 7,214 7,995	n.a. 11,440 13,349 14,918 16,382	6,935,530 7,673,967 7,950,615 8,493,544 9,104,383

FACTORIES: VALUE OF MATERIALS USED, STATES AND TERRITORIES 1963-64 TO 1967-68

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Value of output

By class of industry. The value of the output of factories in the various classes in each State and Territory in 1967-68 is shown in the following table. It represents the selling value at the factory (excluding delivery costs and charges) of goods made or processed during the year, including by-products. In addition, it includes the amount received for other work done, such as repair work, assembling and making up for customers. The difference between the sum of the values of the materials and of the power, fuel and light used, and the value of output, is the net value of factory production (see page 727).

FACTORIES: VALUE OF OUTPUT, BY CLASS OF INDUSTRY STATES AND TERRITORIES, 1967-68

(\$'000)

Class of industry(a)	N.S.W.	Vic.	Qld	S.A.	<i>W.A</i> .	Tas.	N.T.	A.C.T.	Aust.
1. Treatment non-metal,									
mine, etc. products .	226,700	124,125	48,919	39,197	39,125	15,221	2,824	5,553	501,664
2. Bricks, etc.	130,585	78,438	18,990	19,154	17,168	3,134	(b)	(b)	269,138
3. Chemicals, etc.	812,247	550,678	123,581	106,828	151,640	19,614	(b)	(b)	1,765,495
4. Industrial metals, etc.	3,297,441	1.903,178	562,325	838,189	324,668	148,969	7,879	9,663	7,092,313
5. Jewellery, etc.	16,948	16.362	1,930	3,084	1,680	233	·	3,451	43,688
6. Textiles, etc.	223,550	426.636	17,722	23,392	8,134	32,762			732,196
7. Skins, leather, etc.	52.394	35.767	9.841	14,506	4,036	871			117,414
8. Clothing, etc.	293,983	300,436	38,376	25.692	12,187	3.465	91	909	675.075
9. Food, drink, etc.	864,475	907,400	688,461	203,335	168,359	88,500	2.877	4.321	2,927,728
10. Sawmills, etc	214,317	149.536	77,926	50.895	60.248	42.894	783	2,593	599,192
11. Furniture, etc.	93.467	65.287	26.668	17,790	16.638	5,044	(b)	(6)	225,584
12. Paper, stationery, etc.	440,823	381,686	73.546	61,523	36,186	65,207	386	7.243	1,066,600
13. Rubber	89.951	108,131	21,716	19,765	6,267	1,571	249	795	248,446
14. Musical instruments .	9,927	1.562	103	78	98	·			11,768
15. Miscellaneous .	149,658	171,665	12,146	21,839	7,811	653	••	••	363,772
Total, classes 1 to 15	6.916,466	5,220,888	1,722,249	1,445,204	854,246	428,138	16,300	36,583	16,640,075
16. Heat, light and power	180,050	130,422	60,018	30,909	33,126	16,938	2,531	••	453,995
Total, all classes	7,096,517	5,351,311	1,782,267	1,476,113	887,372	445,076	18,831	36,583	17,094,070

(a) For full titles see table on page 727. (b) Not available for publication.

SALARIES AND WAGES, VALUE OF MATERIALS, OUTPUT, PRODUCTION

FACTORIES: VALUE OF OUTPUT, BY CLASS OF INDUSTRY, AUSTRALIA(a) 1963-64 TO 1967-68

(\$'000)

Class of industry	1963-64	1964-65	1965-66	1966-67	1967-68
1. Treatment of non-metalliferous mine					
and quarry products	366.053	413,235	427,652	459,415	501,664
2. Bricks, pottery, glass, etc.	193,031	221,894	225,147	242,627	269,138
3. Chemicals, dyes, explosives, paints, oils,					
grease	1,221,410	1,357,619	1,445,480	1,618,841	1,765,495
4. Industrial metals, machines, convey-					
ances	5,046,075	5,760,129	6,042,120	6,534,706	7,092,313
5. Precious metals, jewellery, plate	31,062	37,024	38,424	40,857	43,688
6. Textiles and textile goods (not dress)	618,816	665,617	665,227	709,976	732,196
7. Skins and leather (not clothing or foot-					
wear)	119,037	117,092	119,112	119,703	117,414
8. Clothing (except knitted)	552,447	587,946	607,336	651,432	675,07
9. Food, drink and tobacco	2,302,914	2,454,023	2,592,748	2,777,071	2,927,728
10. Sawmills, joinery, boxes, etc., wood					
turning and carving	470,768	524,043	536,796	565,434	599,192
11. Furniture of wood, bedding, etc.	171,290	189,742	195,992	210,182	225.58
12. Paper, stationery, printing, book-	,	,	,		
binding, etc.	762,610	854,204	909,061	986,199	1.066.600
13. Rubber	201.343	214,692	215,194	226,126	248.446
14. Musical instruments	8,028	9,300	9,285	10,801	11,76
15. Miscellaneous products	221,084	252,569	261,887	316,179	
Total, classes 1 to 15	12,285,964	13.659.129	14,291,460	15,469,550	16,640.07
16. Heat, light and power	356,722	378,225	398,360	423,295	453,99
Total, all classes	12,642,686	14,037,355	14,689,819	15,892,845	17,094,07

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory,

Total value

FACTORIES: VALUE OF OUTPUT, STATES AND TERRITORIES, 1963-64 TO 1967-68 (\$'000)

Year	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.(a)
1963-64 1964-65 1965-66 1966-67 1967-68	5,137,695 5,951,702 6,154,835 6,632,474 7,096,517		1,292,260 1,341,853 1,511,214 1,622,451 1,782,267	1,061,786 1,206,830 1,270,539 1,343,160 1,476,113	555,058 616,422 678,751 765,224 887,372	341,065 381,549 404,581 437,964 445,076	n.a. 12,068 13,456 16,007 18,831	26,145	12,642,686 14,037,355 14,689,819 15,892,845 17,094,070

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory,

Value of production

By class of industry. The value of production for any industry was defined at the Conference of Statisticians at Sydney in 1925 as 'the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production'.

In accordance with this definition, it was agreed that a deduction consisting of the costs of raw material, containers, power, fuel, light, lubricants, water, tools replaced, repairs to plant and depreciation should be made from the 'value of output'. Because of the difficulty experienced in securing accurate figures for depreciation, however, it was subsequently decided that no deduction should be made on this account. All the deductions mentioned above, with the exception of depreciation, are included in the items 'value of materials used' and 'value of fuel used' as defined above. The net value of production as given in the following tables is obtained, therefore, by deducting only 'value of materials used' and 'value of output'. The value of factory production, therefore, approximates 'net value added' in the manufacturing process.

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MANUFACTURING INDUSTRY

Only certain selected items of costs are recorded in the annual census of production. It must not, therefore, be inferred that when wages and salaries are deducted from the value of production the whole of the 'surplus' is available for interest and profit, as many miscellaneous expenses such as taxation, insurance, advertising, and other overhead charges, as well as depreciation, also have to be taken into account.

The following table shows the value of production in each State and Territory for the various classes of industry.

FACTORIES:	VALUE OF PRODUCTION, BY CI	LASS OF INDUSTRY
	STATES AND TERRITORIES, 19	067-68
	_	

(\$'000)

Class of industry(a)	N.S.W.	Víc.	Qld	S.A.	<i>W.A</i> .	Tas.	N.T.	A.C.T.	Aust
1. Treatment non-metal,									
mine, etc. products .	77,691	53,794	23,085	18,944	18,900	8,112	1,248	1,914	203,687
2. Bricks, etc.	79,400	46,678	11,845	11,449	11,284	1,999	(b)	(b)	163,388
3. Chemicals, etc.	338,540	208,658	44,089	38,710	47,426	9,189	(b)	(b)	686,997
4. Industrial metals, etc.	1,413,051	921.834	231,252	359,761	159,303	68,573	4,491	5,367	3,163,632
5. Jewellery, etc.	9,870	10,080	1,149	2,091	1,207	155		1,801	26,355
6. Textiles, etc.	99,514	180,486	81,90	10,911	3,015	12,902			315,017
7. Skins, leather, etc.	21,208	15,655	4,542	4,222	2,230	173			48,031
8. Clothing, etc.	152,973	157,932	23,436	15,160	7,523	2,332	57	664	360,076
9. Food, drink, etc.	317,550	293,980	175,692	68,689	53,565	25,004	1,321	1,684	937,484
0. Sawmills, etc.	94,340	67,173	37,509	23,126	30,003	17,962	352	1,254	271,719
1. Furniture, etc.	44,752	30,251	11,886	8,458	7,651	2,307	(b)	(b)	105,612
2. Paper, stationery, etc.	234,570	186,698	36,884	32,818	19,709	32,646	273	5,376	548,973
3. Rubber .	37,994	50,626	10,480	9,980	2,866	797	144	359	113,245
4. Musical instruments.	6,988	841	66	62	83		••		8,040
15. Miscellaneous .	77,334	80,234	6,592	11,333	4.273	445	••	••	180,211
Total, classes 1 to 15	3,005,773	2,304,919	626,696	615,715	369,037	182,596	8,360	19,372	7,132,468
16, Heat, light and power	125,209	89,882	31,157	16,174	19,220	15,423	1,320	• •	298,384
Total, all classes .	3,130,982	2,394,801	657,853	631,890	388,257	198,019	9,680	19,372	7,430,85

(a) For full titles see table below.

(b) Not available for publication.

FACTORIES: VALUE OF PRODUCTION, BY CLASS OF INDUSTRY AUSTRALIA(a) 1963-64 TO 1967-68

(\$'000)

Class of industry	1963-64	1964-65	1965-66	1966-67	1967-68
1. Treatment of non-metalliferous mine and					
quarry products	148,204	167,026	168,371	186,660	203,687
2. Bricks, pottery, glass, etc.	113,729	132,067	135,571	146,372	163,388
3. Chemicals, dyes, explosives, paints, oils,					
grease	449,473	504,802	542,702	627,647	686,997
	2,173,990	2,486,078	2,647,768	2,912,885	3,163,632
5. Precious metals, jewellery, plate	18,752	21,777	22,886	24,756	26,355
6. Textiles and textile goods (not dress) .	252,473	279,582	282,753	303,057	315,017
7. Skins and leather (not clothing or footwear).	40,968	42,150	43,111	44,093	48,031
8. Clothing (except knitted)	281,415	302,300	318,968	341,502	360,076
9. Food, drink and tobacco	700,489	757,122	818,329	892,257	937,484
10. Sawmills, joinery, boxes, etc., wood turning	-				
and carving	206,278	231,995	240,785	256,551	271,719
11. Furniture of wood, bedding, etc.	36 01 1	84,409	90,606	99,671	105,612
12. Paper, stationery, printing, bookbinding, etc.	379,738	426,925	459,473	503,315	548,973
13. Rubber	85,704	89,057	90,208	99,469	113,245
14. Musical instruments	4,901	5,868	6,032	6,899	8,040
15. Miscellaneous products	110,670	124,344	129,971	158,795	180,211
Total, classes 1 to 15	5,042,695	5,655,502	5,9 97,536	6,603,930	7,132,468
16. Heat, light and power	227,308	241,251	254,325	273,072	298,384
Total, all classes	5,270,003	5,896,754	6,251,861	6,877,001	7,430,853

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Total and average values. The value of production and the amount per person employed and per head of population are shown in the following table.

Year		N.S.W.	Vic.	Qld	S.A.	W.A.	Ta s .	N.T.	A.C.T.	Aust.(a
Total value (\$'000)										
1963-64		2.267.917	1,749,776	441.873	427.356	230.511	152.571	n.a.	n.a.	5.270.003
1964-65		2.521.476	1.949,665	478,423	498.588	260.637	167.251	6.654	14,060	5.896.754
1965-66 .	÷	2.664.771	2.027.685	542,996	527,477	288,803	175,606	7,103	17.418	6.251.861
1966-67 .		2,928,227	2,235,337	592,607	563,764	335,788	194,571	7,847	18,860	6.877,001
1967-68 .		3,130,982	2,394,801	657.853	631,890	388.257	198.019	9,680	19,372	7.430.853
Average per				•						
person employ	ed									
(\$)—										
1963-64 .		4,650	4,236	3,992	3,857	4,138	4,793	n.a.	n.a.	4,356
1964-65		4,954	4,509	4,116	4,291	4,486	5,134	5,499	4,357	4,647
1965-66		5,131	4,617	4.618	4,457	4,791	5,117	5,489	4,984	4,854
1966-67 .		5,588	5,020	5,025	4,769	5.267	5,578	5,514	5,194	5,261
1967-68 .		5,894	5,322	5,443	5,204	5.766	5,629	6,373	5,213	5,582

FACTORIES: VALUE OF PRODUCTION-TOTALS AND AVERAGES STATES AND TERRITORIES, 1963-64 TO 1967-68

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Indexes of Factory Production

The tables following contain annual indexes of factory production for the years 1949-50 to 1967 68. They present indexes, on 1955-56 and 1959-60 bases respectively, for classes and combinations of classes of manufacturing industry. The indexes are designed to provide broad measures of growth in manufacturing industry over the period.

The indexes have been compiled by methods which are commonly adopted, the indexes for classes and combinations of classes comprising in fact indexes of the output of factory sub-classes at constant prices combined by the use of base period value-added weights. Indexes of this type are subject to a number of limitations, and can be compiled only on the basis of many assumptions and approximations. An understanding of the basis of the indexes is therefore essential if inappropriate use of the indexes is to be avoided. For a comprehensive treatment of concepts, sources, and methods, reference should be made to the annual mimeographed bulletin *Indexes of Factory Production*. This bulletin also contains indexes for a considerable number of individual factory sub-classes.

INDEXES OF FACTORY PRODUCTION(a): AUSTRALIA(b), 1949-50 TO 1959-60 (Base of cach index: year 1955-56 = 100)

Class of industry	Pro- portion of total value added(c) 1955-56	1940. 51)	1950 - 51	1451 52	1952 53	1953 54	1954 - 55	1955- .56	1956- 57	1957- 58	1958- 59	1959- 60
	per cent											
1. Treatment non-metal,	•											
mine, etc. products .	2.3	63	72	76	73	81	94	100	104	112	121	141
2. Bricks, etc.	2.1	76	78	86	78	89	96	100	92	96	103	117
3. Chemicals, etc.	7.9	51	59	61	58	69	85	100	111	123	132	146
4. Industrial metals, etc.	39.8	63	74	78	75	83	93	100	102	114	122	137
6. Textiles, etc.	5.5	83	89	79	78	99	97	100	111	116	114	132
7. Skins, leather, etc	1.1	106	101	97	98	103	104	100	100	99	105	105
8. Clothing, etc.	6.8	87	93	89	84	96	97	100	99	102	104	109
9. Food, drink, etc.	13.2	87	89	89	90	95	98	100	103	104	109	111
10. Sawmills, etc.	5.2	79	85	89	79	89	98	100	96	93	102	110
11. Furniture, etc.	1.7	83	95	89	78	87	97	100	102	113	119	136
12. Paper, stationery, etc.		71	74	72	64	79	90	100	108	111	124	140
13. Rubber	1.7	66	74	73	\$8	84	96	100	102	- 111	118	127
Other (Classes 5, 14,								• • •				
15)(d)	2.6	64	76	72	71	81	93	100	109	111	120	144
Classes 1 to 15 (com-												
bined)	96.5	71	78	80	76	86	94	100	103	110	117	130
16. Heat, light and power	3.5	62	68	73	76	83	92	100	108	116	123	132
All classes (combined)	100.0	71	78	79	76	85	94	100	104	110	118	130

(a) The indexes in this table are combinations of sub-class indexes of value of output as estimated at constant prices. Indexes for all sub-classes within the respective groupings have been combined according to the value-added weights of 1955-56. (b) Excludes factories in Northern Territory and Australian Capital Territory. (c) Value of productionsee page 712 and 727. (d) Combination of Class 5, Precious metals, jewellery, plate; Class 14, Musical instruments; and Class 15, Miscellaneous products.

Class of industry	Proportion of total value added(c) 1959–60	1959- 60	1960- 61	1961- 62	1962- 63	1963- 64	1964 65	1965- 66	1966- 67	1967- 68
	per cent									
1. Treatment of non-metalliferous										
mine and quarry products	2.5 2.2	100	113	114	122	137	149	153	157	166
2. Bricks, pottery, glass, etc	2.2	100	101	97	104	116	129	127	135	143
3. Chemicals, dyes, explosives,										
paints, oils, grease	8.6	100	104	113	123	136	151	158	173	188
4. Industrial metals, machines, con-										
veyances	40.9	100	104	102	116	130	143	149	157	167
6. Textiles and textile goods (not			0.0				120			
dress)	5.2	100	98	100	111	121	128	130	138	140
7. Skins and leather (not clothing or		100			100	00	103	0.0	94	97
footwear).	0.9	100	94 103	95	100	99 116	102 121	98 125	132	134
8. Clothing (except knitted) 9. Food, drink and tobacco	5.7 12.5	100 100	103	105 108	113	118	127	133	132	144
9. Food, drink and tobacco	4.7	100	103	108	100	107	117	119	121	127
11. Furniture of wood, bedding, etc.	1.6	100	97	100	105	112	121	126	132	140
12. Paper, stationery, printing, etc	7.2	100	107	106	105	129	146	151	158	169
13. Rubber	1.6	100	102	99	115	126	132	132	140	151
Other (classes 5, 14 and 15)(d) .	2.5	100	102	106	120	139	157	168	199	229
Other (classes 5, 14 and 15,(a) .	2.5	100	102	100	120	137	157	100	177	22)
Classes 1 to 15 (combined) .	96.1	100	103	104	115	126	138	142	151	160
16. Heat, light and power	3.9	100	107	112	127	135	149	158	170	181
All classes (combined)	100.0	100	104	105	115	126	138	143	152	161

INDEXES OF FACTORY PRODUCTION(a): AUSTRALIA(b), 1959-60 TO 1967-68

(Base of each index: year 1959-60 = 100)

(a) The indexes in this table are combinations of sub-class indexes of value of output as estimated at constant prices. Indexes for all sub-classes within the respective groupings have been combined according to the value-added weights of 1939-60. (b) Excludes factories in Northern Territory and Australian Capital Territory. (c) Value of production see page 712 and 727. (d) Combination of Class 5, Precious metals, jewellery, plate; Class 14, Musical instruments; and Class 15, Miscellaneous products.

Value of land, buildings, plant and machinery

The values recorded in this section are generally the values apportioned in the books of the individual firms after allowance has been made for depreciation, but they include estimates of the capital value of premises and plant rented. Consequently, the totals shown in the table do not represent the actual amount of capital invested in the items specified.

Value of land and buildings

FACTORIES:	VALUE	OF	LAND	AND	BUILDINGS(a),	STATES	AND	TERRITORIES
				1963-6	4 TO 1967-68			

(\$'000)

Year		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.(b)
1963-64		1.454.527	1.020.794	211.520	230,627	118.813	168,403	n.a.	n.a.	3,204,685
1964-65		1.539.169	1.105.712	237.443	256.536	131.739	209.010	5.668	20,583	3.505.859
1965-66		1.658.597	1.176.942	273,559	276.531	151.047	211.923	6,100	21.891	3.776.590
1966-67		1.785.172	1.254.455	294,662	293,351	170,308	233,983	6,482	22,779	4.061.193
1967-68		1.866.071	1.318.004	315,497	310,019	198,640	263,364	8,150	23,410	4,303,156

(a) Depreciated or book values at 30 June, including estimated value of rented premises. (b) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY

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FACTORIES: VALUE OF LAND AND BUILDINGS(a), BY CLASS OF INDUSTRY AUSTRALIA(b), 1963-64 TO 1967-68

(\$1000)

Class of industry	1963-64	1964-65	1465 66	1966-67	1967 68
I. Treatment of non-metalliferous mine and					
quarry products	72,616	76,489	82,525	86,126	90,486
2. Bricks, pottery, glass, etc.	68,470	73,402	79,323	86,770	89,650
3. Chemicals dyes, explosives, paints, oils, grease	219,212	231,170	247,653	263,840	274,346
4. Industrial metals, machines, conveyances	1,188,289	1,320,522	1,419,339	1,532,902	1,649.345
5. Precious metals, jewellery, plate	11,657	16,597	16,584	17,443	18,254
6. Textiles and textile goods (not dress)	130,425	132,770	137,174	144,923	152.328
7. Skins and leather (not clothing or footwear) .	23,322	24,495	25,427	25,478	27,129
8. Clothing (except knitted)	135,959	147,996	156,895	164,304	170,698
9. Food, drink and tobacco	392,089	428,224	465,596	494,778	524,896
10. Sawmills, joinery, boxes, etc., wood turning					
and carving	90,956	100,165	107,406	115,475	120.701
11. Furniture of wood, bedding, etc.	44,142	49,601	52,594	57,401	63.003
12. Paper, stationery, printing, bookbinding, etc.	198,860	227,332	250,587	265,348	288,74/
13. Rubber	50,595	52,322	58,796	64,271	64,101
14. Musical instruments	1,550	1,640	1,730	1,836	3,135
15. Miscellaneous products	64,090	69,571	74,873	85,761	92,875
Total, classes 1 to 15	2,692,232	2.952,295	3,176,504	3.406,654	3,629,694
16. Heat, light and power	512,453	553,565	600,087	654,539	673,462
Total, all classes	3,204,685	3,505,859	3,776,590	4,061,193	4,303,156

(a) Depreciated or book values at 30 June, including estimated value of rented premises. (b) Before 1 July 1964 excludes Northern Territory and Australian Capital Territory.

FACTORIES: VALUE OF LAND AND BUILDINGS(a), BY CLASS OF INDUSTRY STATES AND TERRITORIES, 1967-68

(\$'000)

Class of industry(b)	N.S.W.	Vic.	Qld	S.A.	W'.A.	Tas.	N.T.	A.C.T.	Aust
1. Treatment non-metal.									
mine, etc. products .	31,463	29.637	7.675	10,134	8,283	2,133	443	718	90,480
2. Bricks, etc.	46,359	26.472	5,234	5,639	3,907	1.448	(c)	(c)	89,650
3. Chemicals, etc.	144,388	84,898	11,555	10,912	18,335	3,871	(c)	(c)	274,346
4. Industrial metals, etc.	708,693	528.358	113,125	165,471	85,865	37,716	3,715	6,402	1,649,345
5. Jewellery, etc.	6,398	5,168	739	1,506	767	154		3,522	18,254
6. Textiles, etc.	47,899	90,487	2,874	4,770	1,493	4,805			152,328
7. Skins, leather, etc.	13,336	10,163	1,068	1,408	1,097	58			27,129
8. Clothing, etc.	73,891	72,832	9,534	7,368	4,459	1,779	141	694	170,698
9. Food, drink, etc.	1.59,930	187,945	81,563	39,166	32,316	20,851	1,544	1,582	524,896
10. Sawmills, etc.	45,195	37,893	11,156	11.084	7,674	6,284	445	970	120,701
11. Furniture, etc.	24,188	21,084	6,825	4,882	4,015	1.531	(c)	(c)	63,003
12. Paper, stationery, etc.	118,335	101,056	17,773	17,541	10,516	15.218	197	8,111	288,746
13. Rubber	24,291	26,880	5,924	4,234	1,410	796	137	429	64,101
14. Musical instruments .	2,323	573	62	85	92				3,135
15. Miscellaneous	39,522	43,190	2,536	4,341	2,798	487			92,875
Total, classes 1 to 15	1.486,211	1,266,635	277,643	288,541	183,026	97,129	7,0 98	23,410	3,624,644
16. Heat, light and power	379,859	51,368	37,855	21,478	15,615	166,235	1,052	••	673,462
Total, all classes	1,866,071	1,318,004	315,497	310.019	198,640	263,364	8,150	23,410	4,303,156

(a) Depreciated or book values at 30 June 1968, including estimated value of rented premises. (b) For full titles see table above. (c) Not available for publication.

Value of plant and machinery

FACTORIES: VALUE OF PLANT AND MACHINERY(a), STATES AND TERRITORIES 1963-64 TO 1967-68

(\$'000)

Year		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.(b)
196364		1.504.195	1.040.724	308,307	330.281	155.514	141.651	n.a.	n.a.	3.480.673
1964-65		1.564.408	1.127.948	350,318	388,932	163.526	155.336	6.103	9.682	3,766,253
1965-66		1.672.719	1.209.046	477,459	423,458	197,210	158.672	5,953	10,134	4,154,652
1966-67		1,837,287	1,361,994	601,393	468,959	250.858	169,159	6.825	10,368	4,706,843
1967-68		1,962,069	1.367.251	631,231	503,591	296,659	184.683	6.696	10,023	4,962,203

(a) Depreciated or book values at 30 June, including estimated value of rented plant and machinery. (b) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

FACTORIES: VALUE OF PLANT AND MACHINERY(a), BY CLASS OF INDUSTRY AUSTRALIA(b), 1963-64 TO 1967-68

(\$'000)

Class of industry	1963-64	1964-65	1965-66	1966-67	1967- 68
1. Treatment of non-metalliferous mine and					
quarry products	155,387	171,063	197,365	206,403	220,318
2. Bricks, pottery, glass, etc.	70,476	76,841	84,789	90,183	97,623
3. Chemicals, dyes, explosives, paints, oils, grease	459,429	455,567	521,872	610,518	613,373
4. Industrial metals, machines, conveyances	1,187,576	1,311,045	1,418,984	1,617,467	1,774,241
5. Precious metals, jewellery, plate	3,454	7,060	7,197	7,632	7,870
6. Textiles and textile goods (not dress) .	106,160	113,469	121,398	125,448	129,706
7. Skins and leather (not clothing or footwear)	9,472	10,206	10,215	10,357	10,880
8. Clothing (except knitted)	46,489	51,361	53,749	57,221	60,400
9. Food, drink and tobacco	383,922	438,152	499,512	534,232	561,607
10. Sawmills, joinery, boxes, etc., wood turning					
and carving	71,548	75,441	78,321	85,107	85,320
11. Furniture of wood, bedding, etc.	11,137	12,020	12,902	13,450	14,141
12. Paper, stationery, printing, bookbinding, etc.	209,705	231,722	256,681	278,596	300,637
13. Rubber	36,532	41,208	54,194	60,281	59,765
14. Musical instruments	603	581	658	681	1,076
15. Miscellaneous products	46,137	54,444	59,571	64,713	71,713
Total, classes 1 to 15	2,798,027	3,050,180	3,377,406	3,762,288	4,008,671
16. Heat, light and power	682,646	716,072	777,245	944,555	953,53
Total, all classes	3,480,673	3,766,253	4,154,652	4,706,843	4,962,20

(a) Depreciated or book values at 30 June, including estimated value of rented plant and machinery. (b) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory.

Class of industry(b)	N.S.W.	Vic.	Qld	<i>S.</i> 4.	W'.A.	Tas.	<u>N.T.</u>	A.C.T.	Aust
1. Treatment non-metal,									
mine, etc., products .	111,216	53,985	16,937	18,195	9,948	8,749	372	916	220,318
2. Bricks, etc.	44,130	30,582	7,347	7,279	5,806	1,316	(.)	(c)	97,623
3. Chemicals, etc.	282,452	185,775	58,176	33,899	44,721	7,356	(c)	(1)	613,373
4 Industrial metals, etc.	797,855	377,782	165,587	262,850	110,287	57,898	1,159	823	1.774.241
5. Jewellery, etc.	1,690	1,517	248	485	227	43		3,660	7,870
6. Textiles, etc.	41,372	72,178	2,620	4,222	1,729	7,583			129,706
7. Skins, leather, etc.	4,268	3,816	1,066	1,204	492	34			10,880
8. Clothing, etc.	22,360	27,504	3,929	3,980	1.694	632	46	255	60,400
9. Food, drink, etc.	132,160	166,705	185,469	32,195	24.556	18,944	881	697	\$61.607
10. Sawmills, etc.	29,776	18,294	11.925	9,892	8,229	6.848	132	224	85.320
11. Furniture, etc.	5.711	3,765	1,864	1,383	1,007	378	(c)	(c)	14,141
12. Paper, stationery, etc.	106,312	101,008	21,492	32,028	14.623	22,908	157	2,109	300,637
13. Rubber	21,282	28,551	2,436	5,683	1,286	323	72	131	59,765
14. Musical instruments .	796	249	- 10	13	7				1.076
15. Miscellaneous	25,197	38,746	2,450	3,131	1,830	360	••		71,713
Total, classes 1 to 15	1,626,578	1,110,458	481,555	415,441	226,442	133,371	3,804	10.022	4,008,671
16. Heat, light and power	335,491	256,793	149,675	87,150	70,218	51,312	2,892		953,531
Total, all classes	1,962,069	1,367,251	631,231	503,591	296,659	184,683	6,696	10,022	4,962,203

FACTORIES: VALUE OF PLANT AND MACHINERY(a), BY CLASS OF INDUSTRY STATES AND TERRITORIES, 1967-68 (\$`000)

(a) Depreciated or book values at 30 June 1968, including estimated value of rented plant and machinery. (b) For full titles, see table on page 732. (c) Not available for publication.

Depreciation of land and buildings and plant and machinery

The following table shows, by class of industry, the allowance made for the depreciation of land and buildings and plant and machinery used in connection with the manufacturing industries in each State and Territory as recorded by factory proprietors at the annual census of factory production.

FACTORIES: ALLOWANCE FOR DEPRECIATION OF LAND AND BUILDINGS AND PLANT AND MACHINERY, BY CLASS OF INDUSTRY STATES AND TERRITORIES, 1967-68

15	(000)	

Class of industry (a)	N.S.W.	Vic.	Qld	. <u>.</u>	W.A.	Tas.	N.T.	A.C.T.	Aust.
L. Treatment non-metal,									
mine, etc., products .	13.026	8,639	2,406	1,898	1,245	509	95	110	27,927
2. Bricks, etc.	4,553	3,402	785	862	658	131	(c)	(c)	10,491
3. Chemicals, etc.,	36,776	32.812	5,900	4,406	6,188	1,331	(c)	(c)	87,483
4. Industrial metals, etc.	92,629	46,501	12,467	31,805	7,768	3,497	121	82	194,870
5. Jewellery, etc.	180	144	19	55	2.3	3		192	618
6. Textiles, etc.	5,864	11,531	517	804	234	1,038			19,988
7. Skins, leather, etc.	457	467	97	215	76	3			1,316
8. Clothing, etc.	2,078	2,548	297	295	159	69	5	25	5,475
9. Food, drink, etc.	16,309	20,675	17,096	3,701	3,560	2,327	78	118	63,864
10. Sawmills, etc.	3,209	1,975	1,265	1,267	1,093	792	9	31	9,640
II. Furniture, etc.	643	402	216	161	112	39	(c)	(c)	1,575
12. Paper, stationery, etc.	11,882	12,964	2,675	2,818	1,537	3,009	22	260	35,166
13. Rubber	4,152	4.856	479	644	201	57	13	13	10,451
14. Musical instruments .	115	17	1	(b)	1				135
15. Miscellaneous	3,939	6,203	278	485	194	12	• •		11,111
Total, classes 1 to 15	195,812	153,136	44,498	49,416	23,048	12,817	408	939	480,074
16. Heat, light and power	28,041	22,383	8,626	5,711	4,940	2,357	490		72,548
Total, all classes	223,853	175,519	53,124	55,127	27,988	15,175	898	939	552,621

(a) For full titles see table on page 732, (b) Less than \$500. (c) Not available for publication.

Land and buildings, plant and machinery-values, additions and replacements, depreciation

The following table summarises the recorded totals for Australia and also includes particulars of additions and replacements.

					(\$10				
				Book value 30 June(b)	s at	Additions a ments durir	nd replace- ng year(b)	Depreciatio during year	
Year				Land and buildings	Plant and machinery	Land and buildings	Plant and machinery	Land and buildings	Plant and machinery
1963-64			•	3,204,685	3,480,673	192,419	564,958	39,711	336,929
1964-65				3,505,859	3,766,253	249,779	666,490	46,095	366,702
1965-66				3,776,590	4,154,652	272,052	773,322	51,895	407,388
1966-67				4,061,193	4,706,843	284,951	1,030,889	52,440	450,146
1967-68				4,303,156	4,962,203	270,762	760,894	58,412	494,210

FACTORIES: VALUE OF LAND AND BUILDINGS. PLANT AND MACHINERY AUSTRALIA(a), 1963-64 TO 1967-68 (\$1000)

(a) Before 1 July 1964, excludes Northern Territory and Australian Capital Territory. of rented premises, plant and machinery. (b) Includes estimated values

Principal factory products

The factory production of certain commodities is shown in the monthly and quarterly publications of this Bureau, in the series Manufacturing Industries, and in the bulletin Manufacturing Commodities, formerly Secondary Industries, Part II.—Materials Used and Articles Produced in Factories.

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, together with values, where available, is published in the aforementioned bulletin and in the mimeographed statement Principal Factory Products. Because of revisions, figures for some items for the year 1967-68 in the following table may differ from corresponding figures in earlier publications.

OUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES: AUSTRALIA(a) 1964-65 TO 1967-68

Article					1964-65	1965-66	1966-67	1967-68
Acid (in terms of 100%)								
Hydrochloric				tons	4,491	5,447	6,765	7,918
Nitric				,,	24,817	25,522	31,009	35,033
Sulphuric				'000 tons	1,635	1,781	1,991	1,892
Aerated and carbonated waters				'000 gal	99,062	105,381	112,937	126,933
Air-conditioning equipment-				0.00		,		
Room air conditioners (refrige	erated)			No.	6,027	18,217	22,217	30,509
Room air coolers (evaporative		s) .	,	,,	2,886	6,000	10,414	18,363
Package unit air conditioners				,,	2,306	2,047	3.491	4,654
				,,				
Asbestos cement building sheets	(finishe	d).	•	'000 sq yd	32,477	32,364	32,609	36,251
Asbestos cement building sheets Bags, leather, fibre, etc.—	(finishe	d).	•	'000 sq yd	32,477	32,364	32,609	36,251
Asbestos cement building sheets Bags, leather, fibre, etc.— Handbags—	(finishe	:d) .	•	.,	,	·	,	
Asbestos cement building sheets Bags, leather, fibre, etc.— Handbags— Leather	(finishe	:d).	•	'000 sq yd No.	529,133	534,121	501,762	492,736
Asbestos cement building sheets Bags, leather, fibre, etc.— Handbags— Leather Plastic	(finishe	:d) .	•	.,	,	534,121 1,993	501,762 1,938	492,736 2,294
Asbestos cement building sheets Bags, leather, fibre, etc.— Handbags— Leather	(finishe	:d) .	•	No.	529,133	534,121	501,762	492,736
Asbestos cement building sheets Bags, leather, fibre, etc.— Handbags— Leather Plastic	(finishe	:d) .	•	No. '000	529,133 2,392	534,121 1,993	501,762 1,938	492,736 2,294
Asbestos cement building sheets Bags, leather, fibre, etc.— Handbags— Leather Plastic Other	(finishe	:d) .		No. '000 No.	529,133 2,392 410,190	534,121 1,993 393,037	501,762 1,938 39 2,79 8	492,736 2,294 396,281
Asbestos cement building sheets Bags, leather, fibre, etc.— Handbags— Leather Plastic Other Hessian and calico bags .	(finishe	. (d) .		No. '000 No. '000 doz	529,133 2,392 410,190 3,095	534,121 1,993 393,037 3,601	501,762 1,938 392,798 3,808	492,736 2,294 396,281 3,973
Asbestos cement building sheets Bags , leather, fibre, etc.— Handbags— Leather Plastic Other Hessian and calico bags . Suitcases, kitbags and trunks All other(b)	(finishe	. (d) .		No. '000 No. '000 doz '000	529,133 2,392 410,190 3,095 1,506	534,121 1,993 393,037 3,601 1,515	501,762 1,938 392,798 3,808 1,551	492,736 2,294 396,281 3,973 1,592
Asbestos cement building sheets Bags , leather, fibre, etc.— Handbags— Leather Plastic Other Hessian and calico bags . Suitcases, kitbags and trunks	(finishe	. (d) .		No. '000 No. '000 doz '000	529,133 2,392 410,190 3,095 1,506	534,121 1,993 393,037 3,601 1,515	501,762 1,938 392,798 3,808 1,551	492,736 2,294 396,281 3,973 1,592
Asbestos cement building sheets Bags , leather, fibre, etc.— Handbags— Leather Plastic Other Hessian and calico bags Suitcases, kitbags and trunks All other(b) B ath heaters—	(finishe	. (b)		No. '000 No. '000 doz '000	529,133 2,392 410,190 3,095 1,506 2,187	534,121 1,993 393,037 3,601 1,515 2,128	501,762 1,938 392,798 3,808 1,551 2,057	492,736 2,294 396,281 3,973 1,592 1,988

(a) Excludes Northern Territory and Australian Capital Territory. (b) Excludes canvas water bags.

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA(a), 1964-65 TO 1967-68--continued

Article						1964-65	1965-66	1966-67	1967-68
	• •				doz	240,090	261,190	301,723	299,825
Baths— C.I.P.E.					No.	84,852	85,447	74,489	74,527
Other		·	•	•	-	67,523	67,068	79,987	87,419
Batteries, wet cell type-		•	•	•	**	0.1020	,	.,,	0.,,
Auto (S.L.I.) 6 volts .					'000	503	470	481	465
						1,257	1,312	1,488	1,653
Radio, homelighter, fen	cer .		No	o. of	2 voit cells	158,381	136,173	117,445	106,525
Traction, plant and oth					••	63,717	78,066	99,537	70,518
Beer (excluding waste bee	r) .				'000 gal	274,895	279,503	293,714	309,775
Biscuits			•		'000 lb	208,945	223,678	230,118	233,383
Biscuits Blankets			•		.000	2,079	1,701	1,724	1,654
Boots and shoes (see Fool									
Bran (wheaten) Brandy					s (2,000 lb)	228,746	206,127	202,183	195,862
Brandy		•	•	'00	0 proof gal	1,400	1,371	791	872
Brassieres Bread (2 lb loaf equivalen Breakfast food, cereal (rea		٠	•	•	doz	673,551	719,739	792,015	815,130
Bread (2 lb loaf equivalen	U .	<u>.</u> •	•		'000'	781,317	787,841	802,936	805,679
Breakfast food, cereal (rea	ady to ea	it).	•	·	cwt	878.533	904,040	900,231	935,523
Bricks, clay				•	mil.	1,353	1,360	1.361	1,440
Briquettes, brown coal .				•	000 tons 000 lb	1,893 454,878	1,883	1,820	1,745
Butter	•	·	·	•	000 10	434,070	460,433	489,217	432,313
Condigons sweeters ato					'000 doz	1,418	1,432	1,436	1,378
Cardigans, sweaters, etc Cement, Portland			•	·	'000 tons	3,746	3,688	3,661	3,805
Cheese (green weight)				•	'000 lb	138,008	131,300	153,834	155,385
Cigarettes and cigars			:		,,	49,544	47,543	50,384	51,517
Cloth (including mixtures)		·	•	•	,,				
	· .				'000 sq yd	56,667	55,701	57,573	59,043
Rayon and acetate .						32,016	32,985	35,692	37.226
Synthetic (non-cellulosic					••	22,491	20,805	23,530	27,904
Wool					,,	35,300	32,588	30,635	32,599
Coke-									
Metallurgical	•	•	•	•	'000 tons	3,118	3,179	3,365	3,678
Other	•		•	•	tons	632,501	599,301	551,326	507,253
Concrete, ready mixed .	•	•	•	•	'000 cu yd	6,060	6,736	7,000	7,955
Confectionery									
	•			•	.000 1P	95,634	104,312	104,934	98,984
Other .			•	·		106,274	107,856	111,796	112,848
Copper, refined(c) .		•	•	•	tons	53,441	91,588	74,313	71,952
Coppers (wash boilers)					N/ -	11.051	0.112	8 011	0.467
Electric .		•	•	·	No.	11,051 7,503	9,113 5,740	8,011 4,949	9,462 6,464
Gas		•		•		18,213	19,074	9,047	(e)
A	•	•	•	:	'000 gal	7,295	9,144	9,160	9,776
Corsets and corselets .		:	•	•	doz	342,336	380,835	393,231	418,145
Cycles (complete)		:	•	:	No.	67,874	63,641	69,365	90,671
cycles (complete)	•	•	•	•		0.10.1		0,100	
Dentifrices (toothpaste) .	•	•	•	•	.000 IP	9,799	9,774	10,773	10,324
Electric generators -									
Non-automatic—Altern	ating cui	rrent			No.	1,480	1,676	1,763	2.111
Direct	current					1,139	1,022	708	6.32
Electricity	•		•	•	mil. kWh	35,641	38,279	41,484	44,531
Electrodes for manual wel		•	•	•	'000 lb	47,654	43,555	45,656	45,124
Engines, internal combust	ion(d)	•	•	•	` 000	306	245	288	258
Essences, flavouring						120 722	134 011	100.440	00.041
Domestic .		•	•	•	gal	130,532	134,011	100,460	90,861
Industrial	•	٠	•	•	••	587,753	599,426	733,289	840,894
Face powder					lb	310,586	285,870	376,236	298,233
Face powder Fans, electric	•	•	•	·	No.	204,285	223,409	321,600	360,346
Fish, canned (including fis	h loaf)	•	•	•	'000 lb	10,910	11,849	13,713	17,403
- ioni cannos (meraemis na		•	•	·					

(a) Excludes Northern Territory and Australian Capital Territory. (b) Excludes tyre-cord fabric. (c) Primary origin only. (d) Petrol and diesel. Excludes car, motor cycle, truck, tractor, aero, and marine engines. (e) Not available for publication.

MANUFACTURING INDUSTRY

Floorboards— Australian tim Imported timb Floor coverings- Textile . Smooth surfac Underfelts, un Floor polishers, Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers . Fruit juices, natu Single strength Concentrated(Gas (town) .	er . e . derlays, electric ubber)- nd sand		• • • • •				0 super ft ,, 0000 sq yd ,, No. '0000 cwt	160,165 798 11,542 11,869 11,158 105,077	162.710 721 11,692 14,041 11,067 89,193	154,286 324 12,624 12,150 (<i>h</i>)14,802 88,840	151,812 463 12,758 14,524 (h)16,613 72,657
Imported timb Floor coverings- Textile Smooth surfac Underfelts, un Floor polishers, Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers Fruit juices, natt Single strength Concentrated(Gas (town)	er . e . derlays, electric ubber)- nd sand		· · · · · · · · · · · · · · · · · · ·	•			,, 000 sq yd ,, No. '000 cwt	798 11,542 11,869 11,158 105,077	721 11,692 14,041 11,067 89,193	324 12,624 12,150 (<i>h</i>)14,802 88,840	463 12,758 14,524 (<i>h</i>)16,613
Floor coverings- Textile Smooth surfac Underfelts, un Floor polishers, Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers Fruit juices, natu Single strength Concentrated(Gas (town)	- derlays, electric ubber)- nd sand ral-		•	•			,, 000 sq yd ,, No. '000 cwt	798 11,542 11,869 11,158 105,077	11,692 14,041 11,067 89,193	324 12,624 12,150 (<i>h</i>)14,802 88,840	463 12,758 14,524 (<i>h</i>)16,613
Floor coverings- Textile Smooth surfac Underfelts, un Floor polishers, Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers Fruit juices, natu Single strength Concentrated(Gas (town)	- derlays, electric ubber)- nd sand ral-		· · ·	•	` 000		000 sq yd ,, No. '000 cwt	11,542 11,869 11,158 105,077	11,692 14,041 11,067 89,193	12,624 12,150 (<i>h</i>)14,802 88,840	12,758 14,524 (<i>h</i>)16,613
Textile Smooth surface Underfelts, un Floor polishers, F Flour— Self-raising Wheaten(b). Footwear (not rn Boots, shoes a Slippers Fruit juices, natu Single strength Concentrated(Gas (town)	e . derlays, electric		· · ·	•	`. 000		,, No. '000 cwt	11,869 11,158 105,077	14,041 11,067 89,193	12,150 (<i>h</i>)14,802 88,840	14,524 (h)16,613
Smooth surfac Underfelts, un Floor polishers, i Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers Fruit juices, natu Single strength Concentrated(Gas (town)	derlays, electric ibber)— nd sand iral—			•	`000		,, No. '000 cwt	11,869 11,158 105,077	14,041 11,067 89,193	12,150 (<i>h</i>)14,802 88,840	14,524 (h)16,613
Underfelts, un Floor polishers, F Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers . Fruit juices, natu Single strength Concentrated(Gas (town) .	derlays, electric ibber)— nd sand iral—		• • • •	•		tons	,, No. '000 cwt	11,158 105,077	11,067 89,193	(h)14,802 88,840	(h)16,613
Floor polishers, Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers Fruit juices, natu Single strength Concentrated(Gas (town)	electric ubber)— nd sand ural—			•	000	tons	No. '000 cwt	105,077	89,193	88,840	
Flour— Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers . Fruit juices, natu Single strength Concentrated(Gas (town) .	ibber)— nd sand iral—		• • •	•	'000	tons	'000 cwt				72,657
Self-raising Wheaten(b). Footwear (not ru Boots, shoes a Slippers Fruit juices, natu Single strength Concentrated(Gas (town)	ubber)— nd sand ural—			•	000	tons		000			
Wheaten(b). Footwear (not ru Boots, shoes a Slippers . Fruit juices, natu Single strength Concentrated(Gas (town) .	ubber)— nd sand ural—		• • •	•	'000	tons			~ ~ ~ ~	.	
Wheaten(b). Footwear (not ru Boots, shoes a Slippers . Fruit juices, natu Single strength Concentrated(Gas (town) .	ubber)— nd sand ural—		•	•	'000	tons		902	864	832	804
Footwear (not ru Boots, shoes a Slippers Fruit juices, natu Single strength Concentrated(Gas (town)	ubber)— nd sand ural—			•			(2,000 lb)	1,553	1,414	1,392	1,419
Boots, shoes a Slippers . Fruit juices, natu Single strength Concentrated(Gas (town) .	nd sand ural—			•			(2,000 10)	1,000	1,717	1,372	1,012
Slippers . Fruit juices, natu Single strength Concentrated(Gas (town) .	iral—	·	•	•			2000	26 206	34,949	27 090	20 074
Fruit juices, natu Single strength Concentrated Gas (town)	ı, .	•	·		·	·	'000 pairs	35,306	· · ·	37,080	38,076
Single strength Concentrated(Gas (town)	ı, .			•	•	•	*,	5,512	4,609	4,454	4,298
Concentrated(Gas (town)											
Gas (town) .	c).						'000 gal	10,106	10,727	13,674	14,630
Gas (town) .	-, -						,,	753	815	1,139	971
		-	-				,,				
Gloves—	•					m	il. cubic ft	55,260	55,742	56,743	58,070
Dress .							doz pairs	28,299	26,163	27,761	30,913
Work—	•	•	•	•	•	•	doz puns	20,277	20,105	27,701	
						1000	dan naim	407	382	358	371
Sewn(d).	•	•	·	•	•	000	doz pairs				
Dipped .	•	•	•	•	•	•		1,195	1,309	1,343	1,539
Glucose .	•	•	•	•	•	•	'000 lb	57,444	60,779	65,422	61,945
Golf clubs .							doz	28,635	33,145	40,680	38,082
.											
Handkerchiefs—											
Men's .		•		•	•		'000 doz	2,089	1,901	1,664	1,971
Women's .							,,	1,603	1,507	1,371	1,205
Heaters, room—										,	
Solid fuel .							No.	47,883	37,967	31,606	24,558
Radiators and	Lelectric	fires	·	•	•	•		749.889	706,943	600,294	623,950
Gas fires and					•	·	,,	30,858	31,185	38,764	38,268
Gas mes and	space in	calers,	, uon	restic	•	·	,,	30,838	51,105	30,704	50,200
Ice							tons	205,545	198,701	190,274	187,306
Ice cream .	•	•	•		•		'000 gal	25,019	30,026	34,974	37,423
Infants' and in	Valida' i	milt h	acad	bealt	h ha		ooo gui	25,017	20,020	54,274	57,12.
	vallus i	IIIIK-0	ascu	nean	11 00	ve1-	'000 lb	45 170	45 300	40 240	40 32
ages(e)	•	·	·	·	·	•	000 10	45,179	45,280	49,348	48,234
Ink, printing—											
News .		•		•			**	14,948	14,900	16,190	17,40
Other.							**	13,545	13,971	14,782	15,440
Iron and steel-											
Pig iron .	-						'000 tons	3,936	4,380	4,893	5,20
Steel ingots, c	nen hes	irth ar	ما ماه		•	•		5,131	5,561	6,114	6,28
		a ci di			•	•	••	4,503		4,978	5,37
Blooms and s		• .	· ·	·	•	·	· · · ·		4,823		
Irons, electric (h	land, do	mestio	C)	·	•	•	No.	430,326	450,230	507,882	465,50
Jams (including	conserv	/cs, jel	llies,	etc.)			'000 lb	89,362	97,149	90,761	83,91
Lard	•	·	·	•	·	•	••	5,356	5,853	6,670	6,47
Lawn mowers-								a o	194 004	010 00 -	104.00
Petrol, rotary		•	•	•	•	•	No.	201,125	176,396	219,826	184,90
Other types(f).	•	•	•	•		••	10,799	11,403	11,235	11,68
Lead refined(g)							tons	199,032	188,197	192,429	186,90
Leather							-	• -	•	-	•
Dressed or fir	nished										
		al		00-0-	N		'000 an A	85,900	82 175	71 063	72,21
Chrome tai				anneo	. .	٠	'000 sq ft		83,175		
Vegetable t				•	•	•	,000 IP	19,865	15,326		
Vegetable t						•	'000 sq ft	4,03 6	3 ,956	4,009	3,30
Tanned or dr	essed sl	cins w	rith h	air or	woo	l re-					
tained .	•	•					doz	88,592	117,778	82,018	110,38

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA(a), 1964-65 TO 1967-68—continued

(a) Excludes Northern Territory and Australian Capital Territory. (b) Includes wheatmeal for baking and sharps and atta flour. (c) Excludes grape must. (d) Excludes fabric liners for dipped gloves but includes moulded or heat sealed work gloves. (e) Includes malted milk and milk sugar (lactose). (f) Petrol cylinder, electric and hand. (g) Includes do content of lead only from primary sources, but excludes lead-silver bullion produced for export. (h) New basis—Needled (or bonded) felts of jute or jute/hair mixtures (for all purposes) as from July 1966.

PRINCIPAL FACTORY PRODUCTS

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA(a), 1964-65 TO 1967-68—continued

Article								1964-65	1965-66	1966-67	1967-6
Lime—											
Crushed .	•						tons	200,040	219,912	249,807	253,75
Hydrated .							,,	89,840	96,566	97,544	95,53
Quick .							,,	133,957	143,311	155,173	179,53
Lipstick .		÷		÷	•	•	16	65,458	70,104	74,842	72,32
	•	•	•	•	•	•	10	00,100	70,104	74,044	12,52
Malt (excluding e	xtract)).	•	•	•	•	'000 bus	12,328	13,444	14,239	13,77
Margarine-							1000 11	50.027	63 (08	10 384	
Table .	·	•	•	٠		·	'000 lb	50,937	53,698	48,356	35,57
Other.	.:	·	•	•	•	•	,,	69,060	67,884	76,138	89,28
Mattresses and b								<i>() () (</i>	00.010		
Box spring	•	·	•		·	٠	No.	64,699	80,319	100,362	118,88
Inner spring	· ·		. •	•	•	·	,,	727,248	705,702	682,587	659.45
Woven wire, li	ik mes	sh an	d spri	ng.	•	•	••	510,492	557,344	638,726	626,53
Other	•	•	•	•	•		••	294,074	273,040	302,882	304,53
Meat, canned(b)	•	•	•	•			,000 IP	115,578	114,098	100,849	106,95
Aeters—											
Electric (domes	tic)(c)			•			No.	302,532	302 511	296,571	304,90
Gas .							,,	50,010	41,443	37,884	37,83
Water .							,,	127,316	141,042	146,915	148,83
Milk, condensed,	conce	ntrat	ed an	d eva	porate	d		-	•		
Full cream, sw							'000 Ib	102,479	73,985	61,510	47,31
Full cream, un						-		89,390	88,482	91,700	87,94
Skim .			•	•	•	•	••	21,936	21,196	24,974	18,93
Milk powder-	•	•	•	·	•	•	,,	-1,200	21,170		10,72
Full cream .								43,669	45,060	48,018	47,27
Skim .	•	•	•	·	•	·	••	107,823	112,342	188,584	196,02
Buttermilk or r						·	,,	20,885	25,900		33,59
						·	'000		•	32,518	
Motors, electric			•	•	·	٠	'000	2,585	2,510	2,667	2,91
Motor vehicles, fi	nisnea										
Cars .	·	٠	•	•	•	·	No.	250,477	235,326	238,720	270,96
Station wagons	•	·	•	•	•	•	,,	83,992	58,334	57.534	59,04
Utilities .	•	•	•	•	•	•	,,	25,661	33,038	33,909	31,17
Utilities Panel vans .		•	•	•	•	•	••	12,972	14,427	14,013	14,68
Truck and truc	k-type	vehi	cles		•	•	.,	1,220	766	768	1,13
Motor vehicl e s, p											
Cars, station w	agons,	utili	ties, v	ans			,,	1,825	1,666	1,381	1,66
Trucks and tru	ck-type	e veh	icles				,,	27,029	20,851	21,747	21,85
Aotor vehicle saf	ety bel	lts	•	•	•	•	,,	437,189	426,847	835,162	962,85
Vails							tons	26,802	23,414	23,830	22,92
veckties .			÷	÷	÷	÷	doz	494,107	496,989	490,677	498,50
	•	•	•	•	•	•	002				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Datmeal and rolle								210.050	212 007	240 701	
For porridge, e	ic.	٠	·	·	•	•	cwt	319,950	313,987	340,781	314,31
Other.	:	·	•	•	•	•		536,211	397,401	308,712	116,03
Dils, vegetable, ci	ude	•	•	·	•	•	'000 lb	87,676	87,903	84,519	95,03
aints, etc											
Paints (not wat	er) and	1 cna	mels	ready	for us	e.	'000 gal	16,260	15,188	16,037	16.47
	in j	paste	form	•	•		'000 lb	2,926	3,158	2,589	2,23
Lacquers (nitro	-cellul	ose)					'000 gal	1,563	1,437	1,427	1,42
Tinting colours					ale		,,	57	54	57	6
Stains and clea						for		000	045	012	
sale . Water paints—	•	·	•	•	•	•	"	899	845	913	87
	~							3,710	4,321	4,193	4,35
		·	•	•	•	·	.000 ii	1,053	943	870	74
Emulsion typ		·	•	·	·	•		4,163	4,018	4,031	4,23
In powder fo						•	'000 gal	4,103	4,010	4,031	4,23
In powder fo Thinners	•						-				
In powder fo Thinners aper—	•							03 143	02.711	07 966	0.9.4.4
In powder fo				•		•	tons	93,142 341,642	93,211 351,303	97 ,25 5 389,223	92,64 385,56

(a) Excludes Northern Territory and Australian Capital Territory. basis—electricity consumption meters from 1 July 1965. 11609/70-24 (b) Excludes poultry and baby food. (c) New

MANUFACTURING INDUSTRY

Article			1964-65	1965-66	1966-67	1967-68
Paperboard		tons	296.387	317,553	329,496	334,660
Perambulators, pushers and strollers	•	No.				139,082
	•	190.	135,621	132,499	133,018	159,062
Petrol-			60	467	<i>,</i>	
For blending and refining	. 1	million gal	52	45	1,832	50
Other (all types)	•	**	1,495	1,609∫	ι	1,911
Plaster of paris	•	tons	277,445	265,553	261,054	278,225
Plaster sheets	•	'000 sq yd	29,937	29,917	30,601	32,809
Plywood, $\frac{1}{16}$ inch basis	•	'000 sq ft	217,059	187,258	200,451	230,018
Pollard	tons	(2,000 lb)	326,418	303,162	284,628	305,468
Preserves—						
Fruit						
Canned or bottled		'000 lb	513,713	579,619	611,552	659,700
Pulp and puree—single strength .		'000 cwt	86	62	51	44
Vegetables—						
Canned or bottled		'000 lb	152.117	180,098	194.834	182,051
Quick frozen		,,	77,254	93,885	118,216	100,862
Pyjamas—	•	,,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,2.0	,
Men's and boys' (suits only)		doz	430,589	480,396	422,640	420,563
Women's and girls' (incl. nightdresses) .	·		711,139	627,711	722,519	746.779
women's and gins (men. ingitteresses) .	•	,,	711,139	027,711	122,319	140,113
Racquet frames (all types)	•	. ,,	16,190	15,308	16,866	15,798
Radio receiving sets (including radiograms)	•	No.	455,970	392,526	445,766	522,394
Records (phonograph)—						
Single play (78 and 45 rpm)	•	'000	4,198	4,295	4,727	5,296
Extended play		,,	1,474	1,486	2,103	1,869
Long play		,,	4,459	5,086	6,714	6,847
Refrigerators, domestic		No.	227,728	213,870	232,200	245,138
Resins, plastic and synthetic, for all purpos	es .	'000 cwt	2,123	2,434	2,854	3,349
Rice, polished, unpolished and broken		,,	1,969	2,080	2,373	(b)
Ropes and cables (excluding wire)		cwt	140,770	133,355	130,845	117,670
Rugs		'000	201	175	191	170
Sauce		'000 pints	38,271	46,111	42,213	43,692
Semolina	tons	s (2,000 lb)	16,532	18,744	20,777	24,287
Shirts (men's and boys')		'000 doz	2,146	2,226	2,214	2,226
Sink heaters, electric		No.	12,155	10,646	10,174	9,941
Sinks, steel			219,370	219,333	226,076	212,752
Soap, for personal toilet use		'000 cwt	465	478	483	500
Socks and stockings-						
Men's and youths'	200	0 doz pairs	1,707	1,690	1,815	1,910
			4,440	4,563	4,971	5,257
Children's and infants'	•	,,	1,025	903	1,045	1,004
	•	**	1,025	903	1,045	1,00
Soup—		2000	(1.077	73 023	79 005	67 20
Canned	•	'000 pints	63,077	72,032	78,985	67,20
Dry-mix	•	'000 lb	7,291	8,226	8,803	9,12
Starch	•	,,	147,184	161,555	165,563	183,80
Stearine (stearic acid)	•	,,	11,538	9,647	10,722	11,78
Steel, constructional, fabricated	•	tons	509,121	542,267	567,342	584,79
Stoves, ovens and ranges, domestic cooking	3					
Electric(c)		No.	180,541	188,132	192,655	193,62
Gas(d)		,,	84,503	71,265	75,482	73,12
Solid fuel		,,	23,612	20,859	18,785	14,92
Sugar		.,		•	•	•
Raw (94 net titre)		'000 tons	1,950	1,953	2,343	2,33
Refined		,,	592	609	613	61
Sulphate of ammonia	•	tons	108,275	118,387	110,246	87,00
Superphosphate	•	'000 tons	(e)3703	(f)4,265	(f)4,430	(f)3,93
	•	000 10113	(*)3703	()]4,203	())+,+50	() 15,95
Talcum powder		'000 lb	7,835	6,870	8,134	8,97
			-			

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA(a), 1964–65 TO 1967-68—continued

(a) Excludes Northern Territory and Australian Capital Territory. (b) Not available for publication. (c) Includes wall ovens but excludes cooking tops and portable units. (d) Upright and elevated (with oven) including wall ovens, but excluding hotplates, stovettes, etc. (e) Source: Department of Primary Industry, Figures from June 1964 to June 1965 include double and triple superphosphate and ammonium phosphate expressed in terms of single phosphate, i.e. 22% P₂O₄ equivalent. (f) From 1 July 1965 excludes ammonium phosphate.

PRINCIPAL FACTORY PRODUCTS

QUANTITIES OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA(a), 1964–65 TO 1967–68—continued

Softwood	Article						1964-65	1965-66	1966-67	1967-66
Edible	Fallow (including drippi	ng)	render	ing						
Inedible		÷	i cii dei			'000 lb	161 967	148 628	150 789	148 09
Television sets No. $308,737$ 276,586 254,811 253.2 Television picture tubes			•	•	·					
Television picture tubes		•	·	•	•					
Files, roofing '000 87,744 82,921 88,509 96,8 Terracotta 52,984 \$1,258 47,101 46,9 Firm antive logs Itadwood, etc. '000 super it 1,203,705 1,185,831 1,151,369 1,173,9 Softwood 36,346 27,892 25,771 323,502 Tobasters, electric (domestic) No. 321,042 329,652 326,752 317,591 307,65 Tobasters, electric (domestic) No. 321,042 329,626 366,672 317,7 Tobasters, electric (domestic) No. 321,042 329,626 366,972 311,7 Tobaster, alectric (domestic) No. No 373 22,428 22,776 11,5 Tobaster, alectric (domestic) No00 dox 893 84,079 320,32 310,33 Transformers, chokes and ballasts, for distri- No 355,944 340,895 352,791 370,3 Transformers, chokes and ballasts, for distri- No 84,071 <t< td=""><td></td><td>·</td><td>•</td><td>•</td><td>·</td><td></td><td></td><td>•</td><td></td><td></td></t<>		·	•	•	·			•		
Cement		·	•	•	·	• • • • •	400,675	361,334	308,317	342,15
Terracotta , 52,984 \$1,258 47,101 46,9 From native logs Hardwood, etc. , 7000 super it 1,203,705 1,185,831 1,151,369 1,173,9 Softwood , 329,509 329,512 317,591 307,657 7,68 From miported logs , , 329,626 366,972 331,7 Tobacco , 0000 gal 987 1,927 2,627 2,42 , patte and purce , '000 out 16,373 22,428 22,776 11,5 , patte and purce , '000 out 16,833 1,81 1 Towels , , 24,82 22,776 11,5 , patte and purce , '000 out 16,83 13,81 1 Towels , , 22,308 19,361 16,823 15,86 Fuite call types) , , , 22,308 19,361 16,823 15,82 Transformers, chokes and ballasts, for distri- , , 195,461 174,646 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>02.021</td> <td>00.000</td> <td>04.03</td>						1		02.021	00.000	04.03
Firmer - From native logs 1,203,705 1,185,831 1,151,369 1,173,9 Softwood		·	•	•	·	. 000		•		
From native logs— 1,203,705 1,185,831 1,151,369 1,173,9 Softwood		·	•	•	·	• •,	52,984	51,258	47,101	46,97
Hardwood, etc.										
Softwood										
From imported logs	Hardwood, etc.	•				'000 super ft	1,203,705			1,173,93
From imported logs	Softwood .						329,509	329,532	317,591	307,68
Coasters, electric (domestic)No. $321,042$ $329,626$ $366,972$ $331,7$ Cobacco'000 lb $8,993$ $8,407$ $7,595$ $7,4$ Comato juice'000 pints $16,373$ $22,428$ $22,776$ $11,5$, paste and purce'000 opints $16,373$ $22,428$ $22,776$ $11,5$, pulp.'000 doz 895 960 992 8 Formato juice.'000 doz 895 960 992 8 Formato juice'000 doz 895 $352,791$ $370,3$ Transformers, chokes and ballasts, for distribution of power and light, etc, $22,308$ $19,361$ $16,823$ $15,8$ Fubes, pneumatic(b) $22,308$ $19,361$ $16,823$ $15,8$ Fyres, pneumatic(b) $22,308$ $19,361$ $16,823$ $15,8$ Fyres, pneumatic(b) $22,308$ $19,361$ $16,623$ $14,37$ Junderwear (men's, women's, children's) $22,308$ $930,2$ Jambed basins <td>From imported logs</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>36,346</td> <td>27,892</td> <td>25,771</td> <td>32,37</td>	From imported logs						36,346	27,892	25,771	32,37
Cobacco '000 lb 8,993 8,407 7,595 7,4 Fomato juice '000 gal 987 1,927 2,627 2,4 , paste and purce '000 ocwt 168 133 181 1 Fowels '000 doz 895 960 992 8 Toilat cisterns No. 359,944 340,895 352,791 370,3 Transformers, chokes and ballasts, for distribution of power and light, etc. .	Coasters, electric (domes	stic)								331,71
Tomato juice '000 gal 987 1,927 2,627 2,4 , paste and puree '000 pints 16,373 22,428 22,776 11,5 Towels '000 doz 895 960 992 8 Towels '000 doz 895 960 992 8 Tornsformers, chokes and ballasts, for distribution of power and light, etc. ,, 22,308 19,361 16,823 4,51 4,33 40,895 352,791 370,3 Wase, pneumatic(b) '000 3,651 3,823 4,051 4,33 4,051 4,34 40,895 352,791 370,3 Vine (all types) . '000 3,651 3,823 4,051 4,34 40,895 352,992 930,2 34,051 43,993 Juberlas, street and general purpose . No. 764,510 716,987 825,032 930,2 930,2 930,2 930,2 94,61 174,646 248,825 185,9 76,50 76,64 78,93 91,66 77,9 6,6 78,93 91,75 71,430 64,126 58,040 52,9 8,040		•								7,46
, paste and pure										
, pulp '000 cwt 168 133 181 1 Fowels '000 doz 895 960 992 8 Transformers, chokes and ballasts, for distri- bution of power and light, etc. . '000 359,944 340,895 352,791 370,3 Twine (all types) . . '000 3,651 3,823 4,051 4,8 Yubes, pneumatic(b) . . '000 5,530 5,613 5,806 6,7 Jubes, pneumatic(b) . . '000 3,551 3,806 6,7 Jumberlas, street and general purpose . No. 764,510 716,987 825,032 930,2 Jnderwear (men's, women's, children's) . '000 doz 6,231 6,305 6,179 6,6 //acuum cleaners (domestic) . . No. 181,326 181,691 156,307 163,6 Vash basins— 149,257 140,652 146,464 159,464 159,464 159,464 159,464 159,464 159,464 159,464			•	•	•					
Cowels '000 doz 895 960 992 8 Cowels No. 359,944 340,895 352,791 370,3 Transformers, chokes and ballasts, for distri- bution of power and light, etc. . . . 22,308 19,361 16,823 15,8 Fubes, pneumatic(b) . . '000 3,651 3,823 4,051 4,3 Wrine (all types) . . . '000 3,651 3,823 4,051 4,3 Fyres, pneumatic(b) . . '000 5,530 5,613 5,806 6,7 Jubrellas, street and general purpose No. 764,510 716,987 825,032 930,2 Juderwear (men's, women's, children's) . '000 doz 6,231 6,305 6,179 6,6 Vacuum cleaners (domestic) . No. 181,326 181,691 156,307 163,60 Pressed steel 			•	•	·					11,54
Deliet cisterns No. 359,944 340,895 352,791 370,3 Fransformers, chokes and ballasts, for distri- bution of power and light, etc. .		•	·	•	•					
Cransformers, chokes and ballasts, for distribution of power and light, etc. , 22,308 19,361 16,823 15,8 bubes, pneumatic(b) . <t< td=""><td></td><td>•</td><td>•</td><td>•</td><td>·</td><td></td><td></td><td></td><td></td><td></td></t<>		•	•	•	·					
bution of power and light, etc. , 22,308 19,361 16,823 15,8 Fubes, pneumatic(b) . '000 3,651 3,823 4,051 43, Fyres, pneumatic(b) . . '000 5,530 5,613 5,806 6,77 Jmbrellas, street and general purpose . . '000 5,530 5,613 5,806 6,77 Jnderwear (men's, women's, children's) . '000 doz 6,231 6,305 6,179 6,6 //acuum cleaners (domestic) . . No. 181,326 181,691 156,307 163,66 //acuum cleaners (domestic) . . No. 181,326 181,691 156,307 163,66 //acuum cleaners (domestic) .				· · ·	.		339,944	340,893	332,791	370,34
Tubes, pneumatic(b) '000 3,651 3,823 4,051 4,3 Wine (all types) cwt 195,461 174,646 248,825 185,9 Yyres, pneumatic(b) '000 5,530 5,613 5,806 6,7 Jinbrellas, street and general purpose No. 764,510 716,987 825,032 930,2 Jinderwear (men's, women's, children's) '000 doz 6,231 6,305 6,179 6,6 Vacuum cleaners (domestic) No. 181,326 181,691 156,307 163,66 Vash basins—						ISTTI-				
Twine (all types)				·	·	• • • • • •				
Fyres, pneumatic(b) . . '000 5,530 5,613 5,806 6,7 Jmbrellas, street and general purpose . No. 764,510 716,987 825,032 930,2 Jnderwear (men's, women's, children's) . '000 doz 6,231 6,305 6,179 6,6 Vacuum cleaners (domestic) . . No. 181,326 181,691 156,307 163,6 Wash basins— No. 181,326 181,691 156,307 163,6 Wash basins— .		·	•	•	·					4,35
Jmbrellas, street and general purpose No. 764,510 716,987 825,032 930,2 Jnderwear (men's, women's, children's) '000 doz 6,231 6,305 6,179 6,6 Vacuum cleaners (domestic) No. 181,326 181,691 156,307 163,6 Wash basins 71,430 64,126 58,040 52,9 Earthenware Washing machines, household, electric <		•	•	•	·					,
Jnderwear (men's, women's, children's) . '000 doz 6.231 6,305 6,179 6,6 Vacuum cleaners (domestic) . No. 181,326 181,691 156,307 163,6 Wash basins . . No. 181,326 181,691 156,307 163,6 Wash basins 71,430 64,126 58,040 52,9 Earthenware .	fyres, pneumatic(b)	•	•	•	•	. '000	5,530	5,613	5,806	6,76
Underwear (men's, women's, children's) '000 doz 6,231 6,305 6,179 6,6 Vacuum cleaners (domestic) No. 181,326 181,691 156,307 163,6 Wash basins , 71,430 64,126 58,040 52,9 Earthenware , , 149,257 140,652 146,546 159,4 Pressed steel , , , 56,126 62,852 78,893 91,7 Washing machines, household, electric , , 264,001 240,189 231,601 278,3 Weatherboards , , 3,094 2,583 1,857 2,1 Mushing machines, household, electric , , 3,094 2,583 1,857 2,1 Mushing machines, mousehold, electric , , 3,094 2,583 1,857 2,1 Mushing machines, household, electric , , 3,094 2,583 1,857 2,1 Weatherboards , , ,000 salt 11,366 116,838 123,291 118,7 Wheatmeal for stock						N1.	744 810	716 007	825 022	020 26
Wash basins , 71,430 64,126 58,040 52,9 Earthenware , 149,257 140,652 146,546 159,4 Pressed steel , , 56,126 62,852 78,893 91,7 Washing machines, household, electric , 264,001 240,189 231,601 278,3 Weatherboards , 3,094 2,583 1,857 2,1 Australian timber , 3,094 2,583 1,857 2,1 Wheatmeal for stock feed , tons (2,000 lb) 207,696 284,474 228,872 283,5 Wheelbarrows (metal) , No. 111,366 116,838 123,291 118,7 Wine, beverage Fortified , 8,697 8,663 351,2020 14,5 Wood pulp , 10,337,435 330,625 357,665 351,2 Wool, scoured or carbonised , '000 lb 158,832 156,113 154,119 157,8 Wool tops, pure , 45,835 45,798 44,535 42,40 Yarn (including mixtures) , 45,835 45,798 44,535 42,41 Wool worsted ,	Umbrellas, street and ge	neral	i durd	ose		. NO.	/04.210	/10.90/	023.032	930.2 0
C.I.P.E. , 71,430 $64,126$ $58,040$ $52,9$ Earthenware , 149,257 $140,652$ $146,546$ $159,4$ Pressed steel , 56,126 $62,852$ $78,893$ $91,7$ Weatherboards— , 264,001 $240,189$ $231,601$ $278,3$ Weatherboards— , 3,094 $2,583$ $1,857$ $2,18,7$ Australian timber , 3,094 $2,583$ $1,857$ $2,18,7$ Imported timber , 3,094 $2,583$ $1,857$ $2,18,7$ Wheatmeal for stock feed , 1000 super ft $20,599$ $20,307$ $19,025$ $18,7$ Wheetbarrows (metal) , 3,094 $2,583$ $1,857$ $2,11$ Wheetbarrows (metal) , 8,000 gal $11,136$ $116,838$ $123,291$ $118,7$ Winc, beverage— , 8,697 $8,663$ $12,020$ $14,5$ Wood pulp , 1003 $317,435$ $330,625$ $357,665$ $351,23$ Wool, scoured or carbonised , 9001 b $158,832$ $156,113$ $154,119$ $157,83$ Wool tops, pu					•			,		930,20 6,61
C.I.P.E. , 71,430 64,126 58,040 52,9 Earthenware , 149,257 140,652 146,546 159,4 Pressed steel , 56,126 62,852 78,893 91,7 Washing machines, household, electric , 264,001 240,189 231,601 278,3 Weatherboards— , 3,094 2,583 1,857 2,1 Mustralian timber , 3,094 2,583 1,857 2,1 Wheatmeal for stock feed , 1000 super ft 20,599 20,307 19,025 18,7 Wheetbarrows (metal) , 3,094 2,583 1,857 2,1 Wheetbarrows (metal) , 8,000 gal 111,366 116,838 123,291 118,7 Wine, beverage— No. 111,366 116,838 123,291 118,7 Wood pulp	Underwear (men's, wom	nen's,	, child		•	. '000 doz	6,231	6,305	6,179	
Earthenware	Underwear (men's, wom Vacuum cleaners (domes	nen's,	, child		•	. '000 doz	6,231	6,305	6,179	6,61
Pressed steel	Underwear (men's, wom Vacuum cleaners (domes Wash basins—	nen's,	, child		•	. '000 doz . No.	6,231 181,326	6,305 181,691	6,179 156,307	6,61 163,61
Washing machines, household, electric , 264,001 240,189 231,601 278,3 Weatherboards Australian timber , 3,094 2,583 1,857 2,1 Imported timber , 3,094 2,583 1,857 2,1 Wheatmeal for stock feed , 1000 super ft 20,599 20,307 19,025 18,7 Wheatmeal for stock feed , 1000 super ft 207,696 284,474 228,872 283,5 Wheelbarrows (metal) , 1000 super ft 207,696 284,474 228,872 283,5 Wine, beverage , 8,697 8,663 120,200 14,5 Wood pulp , 1000 gal 111,37 9,678 12,401 11,5 Wood pulp , 1000 gal 11,137 9,678 12,401 11,5 Wool, scoured or carbonised , 10000 lb 158,832 156,113 154,119 157,8 Wool tops, pure , 10000 lb 158,835 45,798 44,535 42,40 Yarn (including mixtures) , 30,647 30,534 32,641 34,55 Wool worsted , 30,6	Underwear (men's, won Vacuum cleaners (domes Wash basins— C.I.P.E.	nen's,	, chilđ		•	. '000 doz . No.	6,231 181,326 71,430	6,305 181,691 64,126	6,179 156,307 58,040	6,61 163,61 52,91
Weatherboards Australian timber '000 super ft 20,599 20,307 19,025 18,7 Imported timber . . 3,094 2,583 1,857 2,1 Wheatheral for stock feed . . . 3,094 2,583 1,857 2,1 Wheatheral for stock feed 3,094 2,583 1,857 2,1 Wheatheral for stock feed . <td< td=""><td>Underwear (men's, won Vacuum cleaners (domes Wash basins— C.I.P.E. Earthenware</td><td>nen's,</td><td>, chilđ</td><td></td><td>•</td><td>. '000 doz . No. . "</td><td>6,231 181,326 71,430 149,257</td><td>6,305 181,691 64,126 140,652</td><td>6,179 156,307 58,040 146,546</td><td>6,61 163,61 52,91 159,48</td></td<>	Underwear (men's, won Vacuum cleaners (domes Wash basins— C.I.P.E. Earthenware	nen's,	, chilđ		•	. '000 doz . No. . "	6,231 181,326 71,430 149,257	6,305 181,691 64,126 140,652	6,179 156,307 58,040 146,546	6,61 163,61 52,91 159,48
Imported timber 3,094 2,583 1,857 2,1 Wheatmeal for stock feed tons (2,000 lb) 207,696 284,474 228,872 283,5 Wheatmeal for stock feed No. 111,366 116,838 123,291 118,7 Wine, beverage— No. 111,366 116,838 123,291 118,7 Wine, beverage— No. 111,37 9,678 12,401 11,5 Unfortified Wood pulp .	Jnderwear (men's, won /acuum cleaners (domes Wash basins— C.I.P.E. Earthenware Pressed steel	nen's, stic)	, child	ren's)	•	. '000 doz . No. . "	6,231 181,326 71,430 149,257 56,126	6,305 181,691 64,126 140,652 62,852	6,179 156,307 58,040 146,546 78,893	6,63 163,63 52,93 159,48 91,79
Imported timber 3,094 2,583 1,857 2,1 Wheatmeal for stock feed tons (2,000 lb) 207,696 284,474 228,872 283,5 Wheatmeal for stock feed No. 111,366 116,838 123,291 118,7 Wine, beverage— No. 111,366 116,838 123,291 118,7 Fortified Yine, beverage— No. 111,137 9,678 12,401 11,5 Unfortified Yine, beverage— No. No. 317,435 330,625 357,665 351,2 Wood pulp tons 317,435 330,625 357,665 351,2 Wool, scoured or carbonised You on tons 158,832 156,113 154,119 157,8 Wool tops, pure Yune Yune Yune Yune Yune Yune Yune Yune Cotton Yune Yune </td <td>Jnderwear (men's, wom /acuum cleaners (domes Vash basins— C.I.P.E. Earthenware Pressed steel Vashing machines, hous</td> <td>nen's, stic)</td> <td>, child</td> <td>ren's)</td> <td>•</td> <td>. '000 doz . No. </td> <td>6,231 181,326 71,430 149,257 56,126</td> <td>6,305 181,691 64,126 140,652 62,852</td> <td>6,179 156,307 58,040 146,546 78,893</td> <td>6,63 163,63 52,93 159,48 91,79</td>	Jnderwear (men's, wom /acuum cleaners (domes Vash basins— C.I.P.E. Earthenware Pressed steel Vashing machines, hous	nen's, stic)	, child	ren's)	•	. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126	6,305 181,691 64,126 140,652 62,852	6,179 156,307 58,040 146,546 78,893	6,63 163,63 52,93 159,48 91,79
Wheatmeal for stock feed tons (2,000 lb) 207,696 284,474 228,872 283,5 Wheelbarrows (metal) No. 111,366 116,838 123,291 118,7 Wine, beverage— Fortified No. 111,137 9,678 12,401 11,5 Unfortified .<	Underwear (men's, won Vacuum cleaners (domes Wash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards—	nen's, stic)	, child	ren's)	•	. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001	6,305 181,691 64,126 140,652 62,852 240,189	6,179 156,307 58,040 146,546 78,893 231,601	6,61 163,61 52,91 159,48 91,79 278,34
Wheelbarrows (metal) . . No. 111,366 116,838 123,291 118,7 Wine, beverage— Fortified . . '000 gal 11,137 9,678 12,401 11,5 Unfortified . . . '000 gal 11,137 9,678 12,401 11,5 Wood pulp 8,697 8,663 12,020 14,5 Wood pulp 8,697 8,663 351,2 . <td>Underwear (men's, won Vacuum cleaners (domes Wash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hou: Weatherboards— Australian timber</td> <td>nen's, stic)</td> <td>, child</td> <td>ren's)</td> <td></td> <td>. '000 doz . No. </td> <td>6,231 181,326 71,430 149,257 56,126 264,001 20,599</td> <td>6,305 181,691 64,126 140,652 62,852 240,189 20,307</td> <td>6,179 156,307 58,040 146,546 78,893 231,601 19,025</td> <td>6,61 163,61 52,91 159,48 91,79 278,34 18,79</td>	Underwear (men's, won Vacuum cleaners (domes Wash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hou: Weatherboards— Australian timber	nen's, stic)	, child	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599	6,305 181,691 64,126 140,652 62,852 240,189 20,307	6,179 156,307 58,040 146,546 78,893 231,601 19,025	6,61 163,61 52,91 159,48 91,79 278,34 18,79
Winc, beverage Fortified	Underwear (men's, won Vacuum cleaners (domes Wash basins	stic) stic) sehol	, child d, ele	ren's)	•	. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857	6,61 163,61 152,91 159,48 91,75 278,34 18,75 2,17
Fortified	Underwear (men's, wom Vacuum cleaners (domes Wash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards— Australian timber Imported timber Wheatmeal for stock fee	stic) stic) sehol	, child d, ele	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872	6,61 163,61 159,48 91,79 278,34 18,79 2,17 283,58
Unfortified , 8,697 8,663 12,020 14,5 Wood pulp , 108 317,435 330,625 357,665 351,2 Wool, scoured or carbonised , 2000 158,832 156,113 154,119 157,8 Wool tops, pure , 45,835 45,798 44,535 42,4 Yarn (including mixtures)— , 45,835 45,798 44,535 42,4 Yarn (including mixtures)— , 59,092 59,021 60,792 60,8 Woollen , 30,647 30,534 32,641 34,55 Wool worsted , 23,532 21,519 18,781 18,8 Rayon and acetate, spun , 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun , 6,387 6,720 8,843 9,5	Jnderwear (men's, wom Vacuum cleaners (domes Wash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards— Australian timber Imported timber Wheatmeal for stock fee Wheelbarrows (metal)	stic) stic) sehol	, child d, ele	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872	6,61 163,61 159,48 91,79 278,34 18,79 2,17 283,58
Wood pulp tons 317,435 330,625 357,665 351,2 Wool, scoured or carbonised '000 lb 158,832 156,113 154,119 157,8 Wool tops, pure , , 45,835 45,798 44,535 42,4 Yarn (including mixtures)— , , , 59,092 59,021 60,792 60,8 Cotton , , 30,647 30,534 32,641 34,5 Wool worsted , , , 30,647 30,534 32,641 34,5 Rayon and acctate, spun , , , , 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun , , 6,387 6,720 8,843 9,5	Jnderwear (men's, wom /acuum cleaners (domes Wash basins	stic) stic) sehol	, child d, ele	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291	6,61 163,61 159,48 91,75 278,34 18,75 2,17 283,55 118,75
Wool, scoured or carbonised '000 lb 158,832 156,113 154,119 157,8 Wool tops, pure ,, 45,835 45,798 44,535 42,4 Yarn (including mixtures)— ,, 59,092 59,021 60,792 60,8 Woollen ,, 30,647 30,534 32,641 34,5 Wool worsted ,, 23,532 21,519 18,781 18,8 Rayon and acetate, spun ,, 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun ,, 6,387 6,720 8,843 9,5	Underwear (men's, wom Vacuum cleaners (domes Wash basins C.I.P.E. Earthenware Pressed steel Washing machines, hou: Weatherboards Australian timber Imported timber Wheatmeal for stock fee Wheelbarrows (metal) Winc, beverage Fortified	stic) stic) sehol	, child d, ele	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366 11,137	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401	6,61 163,61 159,46 91,75 278,34 18,75 2,17 283,58 118,75 118,75
Wool tops, pure 45,835 45,798 44,535 42,4 Yarn (including mixtures)— 45,835 45,798 44,535 42,4 Yarn (including mixtures)— .	Underwear (men's, won Vacuum cleaners (domes Wash basins- C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards- Australian timber Imported timber Wheatmeal for stock fee Wheelbarrows (metal) Winc, beverage- Fortified Unfortified	stic) stic) sehol	, child d, ele	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366 111,137 8,697	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678 8,663	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020	6,61 163,61 159,48 91,75 278,34 18,75 2,17 283,55 118,75 118,75 11,53 14,56
Yarn (including mixtures)— ,, 59,092 59,021 60,792 60,8 Cotton ,, 30,647 30,534 32,641 34,5 Woollen ,, 30,647 30,534 32,641 34,5 Wool worsted ,, 23,532 21,519 18,781 18,8 Rayon and acetate, spun ,, 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun ,, 6,387 6,720 8,843 9,5	Jnderwear (men's, wom Vacuum cleaners (domes Vash basins	stic)	, child d, clea	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 207,696 111,366 111,137 8,697 317,435	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665	6,61 163,61 52,91 91,79,44 91,75 278,34 18,75 2,17 283,55 118,75 118,55 14,55 14,55 351,26
Cotton ,, 59,092 59,021 60,792 60,8 Woollen ,, 30,647 30,534 32,641 34,5 Wool worsted ,, 23,532 21,519 18,781 18,8 Rayon and acetate, spun ,, 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun ,, 6,387 6,720 8,843 9,5	Jnderwear (men's, wom Vacuum cleaners (domes Vash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards— Australian timber Imported timber Wheatmeal for stock fee Wheelbarrows (metal) Winc, beverage— Fortified Unfortified Wood pulp Wool, scoured or carboo	nen's, stic)	, child d, clea	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366 111,137 8,697 317,435 158,832	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665 154,119	6,61 163,61 52,91 159,44 91,75 278,34 18,75 2,17 283,55 118,75 11
Cotton ,, 59,092 59,021 60,792 60,8 Woollen ,, 30,647 30,534 32,641 34,5 Wool worsted ,, 23,532 21,519 18,781 18,8 Rayon and acetate, spun ,, 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun ,, 6,387 6,720 8,843 9,5	Jnderwear (men's, wom /acuum cleaners (domes Vash basins— C.I.P.E. Earthenware Pressed steel Vashing machines, hous Veatherboards— Australian timber Imported timber Mheatmeal for stock fee Vheelbarrows (metal) Winc, beverage— Fortified Unfortified Wood pulp Nool, scoured or carbon	nen's, stic)	, child d, clea	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366 111,137 8,697 317,435 158,832	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665 154,119	6,61 163,61 52,91 159,44 91,75 278,34 18,75 2,17 283,55 118,75 118,75 118,75 118,75 118,75 118,75 14,55 351,22 157,86
Woollen ,, 30,647 30,534 32,641 34,5 Wool worsted ,, 23,532 21,519 18,781 18,8 Rayon and acetate, spun ,, 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun ,, 6,387 6,720 8,843 9,5	Jnderwear (men's, won Vacuum cleaners (domes Vash basins- C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards- Australian timber Imported timber Wheetbarrows (metal) Wheetbarrows (metal) W	nen's, stic) sehol	, child d, clea	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366 111,137 8,697 317,435 158,832	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665 154,119	6,61 163,61 52,91 159,44 91,75 278,34 18,75 2,17 283,55 118,75 118,75 118,75 118,75 118,75 118,75 14,55 351,22 157,86
Wool worsted . <t< td=""><td>Jnderwear (men's, won Vacuum cleaners (domes Vash basins- C.I.P.E. Earthenware Pressed steel Vashing machines, hou: Washing machines, hou: Weatherboards- Australian timber Imported timber Meatherboards- Katherboards- Karo (action to the timber) Washing machines, hou: Washing machines, hou: Washing</td><td>nen's, stic) sehol</td><td>, child d, clea</td><td>ren's)</td><td></td><td>. '000 doz . No. </td><td>6,231 181,326 71,430 149,257 56,126 264,001 207,696 111,366 111,137 8,697 317,435 158,832 45,835</td><td>6,305 181,691 64,126 140,652 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113 45,798</td><td>6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665 154,119 44,535</td><td>6,61 163,61 52,91 91,75 278,34 18,75 2,17 283,55 118,75 14,55 351,22 157,88 42,42</td></t<>	Jnderwear (men's, won Vacuum cleaners (domes Vash basins- C.I.P.E. Earthenware Pressed steel Vashing machines, hou: Washing machines, hou: Weatherboards- Australian timber Imported timber Meatherboards- Katherboards- Karo (action to the timber) Washing machines, hou: Washing	nen's, stic) sehol	, child d, clea	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 207,696 111,366 111,137 8,697 317,435 158,832 45,835	6,305 181,691 64,126 140,652 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113 45,798	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665 154,119 44,535	6,61 163,61 52,91 91,75 278,34 18,75 2,17 283,55 118,75 14,55 351,22 157,88 42,42
Rayon and acetate, spun 6,218 5,970 6,771 9,2 Synthetic (non-cellulosic) fibres spun 6,387 6,720 8,843 9,5	Jnderwear (men's, wom /acuum cleaners (domes Vash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards— Australian timber Imported timber Wheatmeal for stock fee Wheelbarrows (metal) Winc, beverage— Fortified Unfortified Unfortified Wool, scoured or carbod Wool, scoured or carbod Wool tops, pure Yarn (including mixture Cotton	nen's, stic) sehol	, child d, clea	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366 111,137 8,697 317,435 158,832 45,835	6,305 181,691 64,126 140,652 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113 45,798 59,021	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1.857 123,872 123,291 12,401 12,020 357,665 154,119 44,535	6,61 163,61 52,91 159,44 91,75 278,34 18,75 2,17 283,55 118,55 14,55 15,58 14,55 14,55 14,55 14,55 15,78 15,78 14,55 14,55 14,55 14,55 14,55 14,55 14,55 14,55 14,55 14,55 14,55 14,55 14,55 14,55 15,888 15,8888 15,8888 15,8888 15,8888 15,8888 15,8888 15,8888 15
Synthetic (non-cellulosic) fibres spun ,, 6,387 6,720 8,843 9,5	Jnderwear (men's, wom /acuum cleaners (domes Vash basins— C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards— Australian timber Imported timber Wheatheral for stock fee Wheelbarrows (metal) Winc, beverage— Fortified Wood pulp Wool, scoured or carboo Wool tops, pure Yarn (including mixture Cotton Woollen	nen's, stic) sehol	, child d, clea	ren's)		. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 20,599 3,094 207,696 111,366 11,137 8,697 317,435 158,832 45,835 59,092 30,647	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113 45,798 59,021 30,534	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665 154,119 44,535 60,792 32,641	6,61 163,61 52,91 159,44 91,75 278,34 18,75 2,17 283,58 118,75 11,52 14,55 351,22 157,88 42,43 60,88 34,59
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Zinc , refined(c) tons 189,395 196,534 197,030 187,5	Underwear (men's, worr Vacuum cleaners (domes Wash basins- C.I.P.E. Earthenware Pressed steel Washing machines, hous Weatherboards- Australian timber Imported timber Imported timber Wheelbarrows (metal) Winc, beverage- Fortified Unfortified Wool, scoured or carboi Wool, scoured or carboi Wool, scoured or carboi Wool, scoured or carboi Wool tops, pure Yarn (including mixture: Cotton Woolworsted Rayon and acetate, sp	stic) sehol d	d, elec	ren's)	· · · · · · · · · · · · · · · · · · ·	. '000 doz . No. 	6,231 181,326 71,430 149,257 56,126 264,001 207,696 111,366 11,137 8,697 317,435 158,832 45,835 59,092 30,647 23,532 6,218	6,305 181,691 64,126 140,652 62,852 240,189 20,307 2,583 284,474 116,838 9,678 8,663 330,625 156,113 45,798 59,021 30,534 21,519 5,970	6,179 156,307 58,040 146,546 78,893 231,601 19,025 1,857 228,872 123,291 12,401 12,020 357,665 154,119 44,535 60,792 32,641 18,781 6,771	6,61 163,61 52,91 159,48 91,75 278,34 18,75 2,17 283,58 118,75 118,75 14,55 351,26

(a) Excludes Northern Territory and Australian Capital Territory, origin only—includes small quantities of zinc dust.

(b) Excludes bicycle and 'other'. (c) Primary

Overseas participation in Australian manufacturing industry

Introduction

Any attempt to provide statistical information on the extent of overseas participation in local industry involves difficult problems of statistical concept and measurement. Broadly, there are two ways in which overseas participation may be measured. One is to examine the financial accounts of Australian companies and compare the value of *assets* of companies in which there is significant overseas investment with those of other Australian companies. The other is to examine the *operations* (as expressed in terms of production, wages and salaries, output, etc.) of establishments of Australian companies in which there is significant overseas investment soft there is significant overseas investment and compare their operations with those of establishments of other Australian companies. The second method has been adopted for a series of studies in overseas participation in Australian manufacturing industry.

Scope of the statistics

The statistics relate to Australian manufacturing industry and are derived from data collected from the Annual Factory Census. For the purpose of the census a 'factory' is defined as an establishment in which four or more persons are employed or where power (other than manual) is used in any manufacturing process.

Classification of companies

The extent of overseas participation in the manufacturing industry is measured by the operations of the establishments of companies in which there is direct investment from overseas (as determined by the annual survey of overseas investments). These are defined as follows.

- (i) Companies in Australia in which at least 50 per cent of the ordinary shares (or voting stock) is held by individual shareholders or companies resident in one overseas country, or where 25 per cent or more of the ordinary shares (or voting stock) is held by one company, or a group of companies, incorporated in one overseas country.
- (ii) Branches of companies incorporated overseas and registered in Australia as foreign companies.
- (iii) Wholly and partly owned subsidiaries and sub-subsidiaries, etc., of companies included in (i) and (ii) above.

Investment in ordinary shares (or voting stock) of Australian companies (including companies in which there is direct investment from overseas) where the proportion of shares held in a single country falls below the percentages specified in (i) above is defined as portfolio investment. Because of the difficulties encountered in determining the proportion of ordinary shares (or voting stock) of individual Australian companies held by portfolio investors overseas, the figures for overseas participation in the manufacturing industry exclude participation by way of portfolio investment.

Further information available

In the following tables the degree of overseas participation is expressed in terms of value of production only. Further details in terms of value of salaries and wages, and average number of persons employed, as well as the value of production, may be found in Parts I and II of the mimeographed bulletin Overseas Participation in Australian Manufacturing Industry 1962-63 and 1966-67.

OVERSEAS OWNERSHIP AND CONTROL

In analysing the extent of overseas participation in local industry it is usual to distinguish between two aspects, overseas ownership and overseas control.

Overseas ownership

Statistics which give a general indication of the degree of overseas ownership in terms of the value of production of Australian manufacturing establishments are presented in the two following tables. In the compilation of these statistics the data for an establishment of a company in which there is no direct investment from overseas are allocated wholly to Australian ownership. The data relating to an establishment of a company in which there is direct investment from overseas are *apportioned* to overseas and Australian ownership according to the proportion of the ordinary shares (or voting stock) of the company that is held by the direct overseas investors.

OVERSEAS PARTICIPATION IN AUSTRALIAN MANUFACTURING INDUSTRY 741

MANUFACTURING: VALUE OF PRODUCTION APPORTIONED TO AUSTRALIAN AND DIRECT OVERSEAS OWNERSHIP, BY INDUSTRY, 1962-63 AND 1966-67

								Value (\$ '0	00)	Proportion and oversea	
Industry and owners	hip							1962-63	1966-67	196263	1966-67
Treatment of non- ducts-	metal	lifero	us m	ine ar	nd qu	arry j	рго-				
Australian(a)								120,015	169,108	92.4	90.6
Overseas .	•	•	•	•	•	•	•	9,941	17,552	7.6	9.4
Bricks, pottery, glas											
Australian(a) Overseas	•	•	•	•	•	•	٠	91,228	130,971	91.1	89.5
		•	•		•	•	·	8,272	15,401	8.9	10.5
Chemicals, dyes, ex Australian(a)								157,972	221.640	38.4	35.3
Overseas .	•	·	•	•	•	•	•	253,403	406,007	61.6	64.7
Industrial metals, n	Nachir	• • • •	Anvev			•	•	200,000	100,001	01.0	
								1,531,996	2,216,312	78.4	76.1
Overseas		÷						422,707	696,573	21.6	23.9
Textile and textile g	onds	(not	dress	-				·,			
				· .				206,948	262,120	88.5	86.5
Overseas .						•		26,837	40,937	11.5	13.5
Skins and leather (r	ot cle	othin	g or f	ootwe	ar)						
Australian(a)		•						38,432	42,161	95.5	95.6
Overseas .		•		•	•		•	1,828	1,932	4.5	4.4
Clothing (except kn	itted)										
Australian(a)			•		•		•	255,406	327,200	95.9	95.8
Overseas .			•	•	•	•	•	10,931	14,302	4.1	4.2
Food, drink and to	bacco										
Australian(a)	•	•	•	•	٠	•	•	510,609	686,974	80.2	77.0
Overseas .	·	•	•	•	•	•	•	126,308	205,284	19.8	23.0
Sawmills, joinery, bo						arvin	g				
Australian(a)	·	·				•	•	182,861	244,473	96.1	95.3
Overseas .	•	. ·	•	·	•	•	•	7,496	12,078	3.9	4.7
Furniture of wood, Australian(a)		· · ·						69,262	96,734	99.0	97.1
Overseas	•	•	•	:		•	•	726	2,937	1.0	2.9
Paper, stationery, p	.:					•	•	720	2,757	1.0	2.7
Australian(a)				numg	, etc –	-		317,968	449.253	90.6	89.3
Overseas .	•	:		÷	÷	:	:	32,945	54,062	9.4	10.7
Rubber-			-				-	,			
Australian(a)								67.316	77.264	85.9	77.7
Overseas .			•		•			11,006	22,205	14.1	22.3
Other(b)											
Australian(a)								307,368	426,194	92.5	91.9
Overseas .			•	•	•	•	•	24,861	37,328	7.5	8.1
Total manufacturing											
Australian(a)							-	3,857,381	5,350,403	80.4	77.8
Overseas .		:	•				:	937,860	1,526,599	19.6	22.2
		-				-	-				
Grand total								4,795,241	6,877,001	100.0	100.0

(a) Includes ownership by overseas portfolio investors. (b) Includes musical instruments, heat, light and power, and miscellaneous products.

Overseas control

The statistics in the following tables provide an indication of the relative importance of manufacturing establishments of companies in which there is direct overseas investment. The concept of direct overseas investment is directly related to the concept of overseas control, and the statistics in these tables provide a measure of the value of production of manufacturing establishments of companies which can be regarded as subject to a degree of overseas control. The statistics have been derived by allocating data relating to each manufacturing establishment *wholly* to either one or the other of the following categories: (i) establishments of direct overseas investment companies; (ii) other establishments.

MANUFACTURING: VALUE	OF PRODUCTION ATTRIBUTED TO AUSTRALIAN AND
DIRECT OVERSEAS	CONTROL, BY INDUSTRY, 1962-63 AND 1966-67

Industry and category of control 1962-6 Treatment of non-metalliferous mine and quarry products— 118,76 Australian 111,19 Bricks, pottery, glass etc.— 90,41 Australian 90,41 Overseas 9,68 Chemicals, dyes, explosives, paints, oils, grease— 132,40 Australian 132,40 Overseas 1468,81 Overseas 14,68,81 Overseas 278,96 Industrial metals, machines, conveyances— 485,88 Textiles and textile goods (not dress)— 203,80 Australian 29,98 Skins and leather (not clothing or footwear)— 484,63 Australian 251,04 Overseas 152,25 Sawmills, joinery, boxes, etc, wood turning and carving— 484,63 Overseas 7,94 Furniture of wood, bedding, etc.— <th>P. 0)</th> <th>roportion Aus oversea:</th> <th>tralian and s (per cent)</th>	P. 0)	roportion Aus oversea:	tralian and s (per cent)
ducts Australian 118,76 Australian 11,19 Bricks, pottery, glass etc Australian 90,41 Australian 90,41 Overseas 9,68 Chemicals, dyes, explosives, paints, oils, grease 132,40 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances Australian Australian 1,468,81 Overseas 203,80 Overseas 203,80 Overseas 203,80 Overseas 29,98 Skins and leather (not clothing or footwear) Australian Australian 29,98 Skins and leather (not clothing or footwear) Australian Australian 251,04 Overseas 15,28 Food, drink and tobacco 152,28 Sawmills, joinery, boxes, etc, wood turning and carving 152,28 Sawmills, joinery, boxes, etc, wood turning and carving 484,63 Overseas 7,94 Furniture of wood, bedding, etc 40,11,59 Overseas 152,28 Pa	3 1966-67	1962-63	19 <mark>66</mark> –67
Australian 118,76 Overseas 11,19 Bricks, pottery, glass etc.— 90,41 Australian 90,41 Overseas 9,68 Chemicals, dyes, explosives, paints, oils, grease— 9,68 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 132,40 Australian 1,468,81 Overseas 1,468,81 Overseas 203,80 Overseas 203,80 Overseas 203,80 Overseas 203,80 Overseas 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— Australian Australian 251,04 Overseas 1,528 Food, drink and tobacco— 152,25 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 309,71 Australian 309,71 Overseas 309,71 Overseas 20,21 Australian 66,27			
Overseas 11,19 Bricks, pottery, glass etc.— 90,41 Australian 90,68 Chemicals, dyes, explosives, paints, oils, grease— 132,40 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 132,40 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 485,88 Textiles and textile goods (not dress)— 485,88 Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— Australian Australian 38,26 Overseas 1,99 Clothing (except knitted)— 484,63 Overseas 15,28 Food, drink and tobacco— 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 40,11,15 Australian 30,97,10 Overseas 14,15 Rubber— 41,15 </th <th>2 165,200</th> <th>91.4</th> <th>88.5</th>	2 165,200	91.4	88.5
Australian 90,41 Overseas 9,68 Chemicals, dyes, explosives, paints, oils, grease— 132,40 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 248,96 Australian 1,468,81 Overseas 1,468,81 Overseas 203,80 Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— 485,88 Australian 38,26 Overseas 1,99 Clothing (except knitted)— 484,63 Overseas 15,25 Food, drink and tobacco— 484,63 Overseas 15,25 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 430,71 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 309,71 Overseas 309,71 Overseas 12,04 Overseas 12,04		8.6	11.5
Australian 90,41 Overseas 9,68 Chemicals, dyes, explosives, paints, oils, grease— 132,40 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 248,96 Australian 1,468,81 Overseas 1,468,81 Overseas 203,80 Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— 485,88 Australian 38,26 Overseas 1,99 Clothing (except knitted)— 484,63 Overseas 15,25 Food, drink and tobacco— 484,63 Australian 484,63 Overseas 15,25 Sawmills, joinery, boxes, etc, wood turning and carving— 152,25 Sawmills, joinery, boxes, etc, wood turning and carving— 484,63 Overseas 7,94 Furniture of wood, bedding, etc.— 7,94 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 12,04 O			
Chemicals, dyes, explosives, paints, oils, grease— 132,40 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 278,96 Australian 1,468,81 Overseas 1,468,81 Overseas 485,88 Textiles and textile goods (not dress)— 485,88 Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— 485,26 Australian 38,26 Overseas 1,99 Clothing (except knitted)— 15,28 Food, drink and tobacco— 484,63 Overseas 152,26 Sawmills, joinery, boxes, etc, wood turning and carving— 152,26 Sawmills, joinery, boxes, etc, wood turning and carving— 484,63 Overseas 7,94 Furniture of wood, bedding, etc.— 83 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 41,15 Rubber— 41,15 Australian 66,27 Overseas 12,	4 131,557	90.3	89.9
Chemicals, dyes, explosives, paints, oils, grease— 132,40 Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 278,96 Australian 1,468,81 Overseas 1,468,81 Overseas 485,88 Textiles and textile goods (not dress)— 485,88 Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— 485,26 Australian 38,26 Overseas 1,99 Clothing (except knitted)— 15,28 Food, drink and tobacco— 484,63 Overseas 152,26 Sawmills, joinery, boxes, etc, wood turning and carving— 152,26 Sawmills, joinery, boxes, etc, wood turning and carving— 484,63 Overseas 7,94 Furniture of wood, bedding, etc.— 309,71 Australian 309,71 Overseas 309,71 Overseas 309,71 Overseas 309,71 Overseas 309,71 Overseas 12,04 Overseas <	6 14,815	9.7	10.1
Australian 132,40 Overseas 278,96 Industrial metals, machines, conveyances— 28,96 Australian 1,468,81 Overseas 485,88 Textiles and textile goods (not dress)— 485,88 Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— 40,000 Australian 38,26 Overseas 1,99 Clothing (except knitted)— 484,63 Overseas 152,25 Food, drink and tobacco— 484,63 Overseas 152,25 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 83 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 41,15 Rubber— 41,15 Australian 62,27 Australian 62,27 Overseas 12,26 Overseas 12,26 Overseas 130,07			
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Industrial metals, machines, conveyances— 1,468,81 Overseas 1,468,81 Overseas 485,88 Textiles and textile goods (not dress)— 203,80 Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— 38,26 Overseas 1,99 Clothing (except knitted)— 38,26 Australian 21,04 Overseas 1,528 Food, drink and tobacco— 484,63 Overseas 15,28 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 82 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 41,15 Rubber— 41,15 Australian 66,27 Overseas 12,04 Overseas 12,04 Overseas 12,04 Overseas 14,15 Australian 14,15 Overseas 12,04 <t< td=""><td>· · ·</td><td>67.8</td><td>73.0</td></t<>	· · ·	67.8	73.0
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Textiles and textile goods (not dress)— 203,80 Australian 29,98 Skins and leather (not clothing or footwear)— 38,26 Australian 1,99 Clothing (except knitted)— 1,99 Clothing (except knitted)— 251,04 Overseas 15,28 Food, drink and tobacco— 484,63 Overseas 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 83 Paper, stationery, printing, book-binding, etc.— 309,71 Australian 309,71 Overseas 12,04 Other(a) 12,04 Australian 20,04 Overseas 20,04 Overseas 20,04 Overseas 20,04 Overseas 20,04 Overseas 20,04 Overseas 20,07 Overseas 20,07 Overseas 20,07 Overseas 20,07		24.9	28.7
Australian 203,80 Overseas 29,98 Skins and leather (not clothing or footwear)— 38,26 Australian 1,99 Clothing (except knitted)— 1,99 Australian 251,04 Overseas 15,26 Food, drink and tobacco— 484,63 Australian 484,63 Overseas 15,226 Sawmills, joinery, boxes, etc, wood turning and carv- 152,226 Sawmills, joinery, boxes, etc, wood turning and carv- 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 83 Paper, stationery, printing, book-binding, etc.— 83 Australian 309,71 Overseas 12,04 Other(a) 12,04 <t< td=""><td></td><td></td><td></td></t<>			
Overseas 29,98 Skins and leather (not clothing or footwear)— 38,26 Australian 38,26 Overseas 1,99 Clothing (except knitted)— 484,63 Australian 15,28 Food, drink and tobacco— 484,63 Australian 484,63 Overseas 15,28 Sawmills, joinery, boxes, etc, wood turning and carving— 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 7,94 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 41,19 Rubber— 41,19 Australian 66,27 Overseas 12,04 Other(a) 303,00 Australian 29,14	5 255.994	87.2	84.5
Skins and leather (not clothing or footwear)— 38,26 Australian 1,99 Clothing (except knitted)— 1,99 Australian 251,04 Overseas 15,28 Food, drink and tobacco— 484,63 Overseas 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 82 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 309,71 Overseas 12,04 Overseas 12,24 Overseas 182,41 Overseas 182,41 Overseas 182,41 Overseas 309,15 Overseas 309,11 Overseas 309,71 Overseas 12,04 Overseas 12,04 Overseas 12,04 Overseas 12,04 Overseas 12,04 Other(a) 303,06		12.8	15.5
Australian 38,26 Overseas 1,99 Clothing (except knitted)— 1,99 Australian 251,04 Overseas 15,28 Food, drink and tobacco— 484,63 Australian 484,63 Overseas 15,28 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Overseas 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 7,94 Australian 69,15 Overseas 303,01 Overseas 303,00 Overseas 12,04 Overseas 303,00 Overseas 182,41 Overseas 303,00 Overseas 303,00 Overseas 12,04 Overseas 14,15 Rubber— 41,15 Australian 12,04 Other(a) 303,00 Australian 29,14	•,••••	12:0	
Overseas 1,99 Clothing (except knitted)— Australian 251,04 Australian 15,28 Food, drink and tobacco— 484,63 Australian 152,28 Sawmills, joinery, boxes, etc, wood turning and carv- ing— 152,28 Australian 182,41 Overseas 19,12 Overseas 19,12 Overseas 19,12 Overseas 12,04 Other(a) 12,04 Overseas <t< td=""><td>4 42,009</td><td>95.0</td><td>95.3</td></t<>	4 42,009	95.0	95.3
Clothing (except knitted)— 251,04 Australian 15,28 Food, drink and tobacco— 484,63 Australian 484,63 Overseas 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 152,28 Australian 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 4 Australian 69,15 Overseas 309,71 Overseas 41,15 Rubber— 41,15 Australian 66,27 Overseas 12,04 Other(a) 303,00 Overseas 29,14		5.0	4.7
Australian 251,04 Overseas 15,28 Food, drink and tobacco Australian Australian 484,63 Overseas 152,28 Sawmills, joinery, boxes, etc, wood turning and carv- ing 152,28 Australian 182,41 Overseas 7,94 Furniture of wood, bedding, etc 4 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 41,15 Rubber 12,04 Australian 66,27 Overseas 12,04 Other(a) 303,00 Australian 29,14	2,004	5.0	
Overseas 15,28 Food, drink and tobacco Australian Australian 484,63 Overseas 152,28 Sawmills, joinery, boxes, etc, wood turning and carv- 152,28 Sawmills, joinery, boxes, etc, wood turning and carv- 182,41 Overseas 182,41 Overseas 7,94 Furniture of wood, bedding, etc 7,94 Australian 69,15 Overseas 309,71 Overseas 309,71 Overseas 41,15 Rubber 41,15 Australian 66,27 Overseas 12,04 Other(a) 303,00 Australian 29,14	9 320,760	94.3	93.9
Food, drink and tobacco Australian 484,63 Overseas 152,26 Sawmills, joinery, boxes, etc, wood turning and carv- ing 152,26 Australian 182,41 Overseas 7,94 Furniture of wood, bedding, etc 82 Australian 69,15 Overseas 309,11 Overseas 82 Paper, stationery, printing, book-binding, etc 309,71 Overseas 41,15 Rubber 12,00 Overseas 12,00 Other(a) 303,00 Australian 29,14		5.7	6.1
Australian 484,63 Overseas 152,28 Sawmills, joinery, boxes, etc, wood turning and carving 152,28 Australian 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 69,12 Australian 69,12 Overseas 309,71 Overseas 309,71 Overseas 41,15 Rubber— 41,15 Australian 66,27 Overseas 12,04 Overseas 29,14	0 20,742	5.7	0.1
Overseas 152,28 Sawmills, joinery, boxes, etc, wood turning and carving— 182,41 Australian 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 4 Australian 69,12 Overseas 83 Paper, stationery, printing, book-binding, etc.— 83 Australian 41,15 Rubber— 41,15 Australian 66,27 Overseas 12,04 Other(a) 303,00 Overseas 29,14	636.959	76.1	71.4
Sawmills, joinery, boxes, etc, wood turning and carv- ing- Australian		23.9	28.6
ing Australian	2 233,299	23.9	20.0
Australian 182,41 Overseas 7,94 Furniture of wood, bedding, etc.— 7,94 Australian 69,12 Overseas 82 Paper, stationery, printing, book-binding, etc.— 82 Australian 309,71 Overseas 41,15 Rubber— 41,15 Australian 66,27 Overseas 12,04 Other(a) 303,08 Overseas 29,14			
Overseas 7,94 Furniture of wood, bedding, etc.— 69,15 Australian 69,15 Overseas 82 Paper, stationery, printing, book-binding, etc.— 82 Australian 309,71 Overseas 41,15 Rubber— 66,27 Overseas 12,04 Other(a) 303,00 Overseas 29,14	3 242,801	95.8	94.6
Furniture of wood, bedding, etc.— 69,12 Australian 69,14 Overseas 83 Paper, stationery, printing, book-binding, etc.— 83 Australian 309,71 Overseas 41,15 Rubber— 66,27 Overseas 12,04 Other(a) 303,00 Overseas 29,14		4.2	5.4
Australian	4 15,750	4.2	5.4
Overseas .<	64 95.021	98.8	95.3
Paper, stationery, printing, book-binding, etc.— 309,71 Australian . . . 309,71 Overseas .		1.2	4.7
Australian .	4 4,050	1.2	4.7
Overseas .<	7 433,923	88.3	86.2
Rubber Australian 66,27 Overseas 12,04 Other(a) 303,08 Overseas 29,14	•	11.7	13.8
Australian .	0,372	11.7	13.0
Overseas .<	76,510	84.6	76.9
Other(a) 303,08 Australian		84.0 15.4	23.1
Australian .	22,939	15.4	23.1
Overseas	37 419.983	91.2	90. <i>6</i>
· · · · · · · · · · · · · · · · · · ·			90.0
	43,539	8.8	9.4
Total manufacturing—			
Australian	01 5.067.497	77.6	73.7
Overseas		22.4	26.3
· · · · · · · · · · · · · · · · · · ·	-,,		
Grant total	41 6.877.001	100.0	109.0

(a) Includes musical instruments, heat, light and power, and miscellaneous products.

OVERSEAS PARTICIPATION IN AUSTRALIAN MANUFACTURING INDUSTRY 743

MANUFACTURING: VALUE OF PRODUCTION APPORTIONED TO DIRECT OVERSEAS AND AUSTRALIAN OWNERSHIP, 1962-63 AND 1966-67, BY PERCENTAGE OF DIRECT OVERSEAS EQUITY

		Value (\$ '00	<i>)</i> 0)	Proportion (per cent)		
Proportion of direct overseas equity(a)		1962-63	196 6-6 7	1962-63	1966-67	
25 per cent but less than 50 per cent		47,432	80,187	1.0	1.2	
50 per cent but less than 75 per cent		115,451	233,256	2.4	3.4	
75 per cent and over	•	774,977	1,213,156	16.2	17.6	
Total apportioned to direct overseas ownership	•	937,860	1,526,599	19.6	22.2	
Total apportioned to Australian ownership(b)		3,857,381	5,350,403	80.4	77.8	
Grand total		4,795,241	6,877,001	100.0	100.0	

(a) Percentage of direct equity for all overseas countries. (b) Includes ownership by overseas portfolio investors.

For a discussion of some of the problems associated with the measurement of overseas control reference should be made to Overseas Participation in Australian Mining Industry in the chapter Mineral Industry.

MANUFACTURING: VALUE OF PRODUCTION ATTRIBUTED TO DIRECT OVERSEAS AND AUSTRALIAN CONTROL 1962-63 AND 1966-67, BY PERCENTAGE OF DIRECT OVERSEAS EQUITY

		ŀ	aluc (\$ `000)		Proportion (per cent		
Proportion of direct overseas equity(a)		1962-63	1966-67	196263	196667		
25 per cent but less than 50 per cent .			84,438	152,655	1.7	2.2	
50 per cent but less than 75 per cent .			200,950	406,327	4.2	5.9	
75 per cent and over.	•	•	791,052	1,250,522	16.5	18.2	
Total apportioned to overseas control			1,076,440	1,809,504	22.4	26.3	
Total apportioned to Australian control			3,718,801	5,067,497	77.6	73.7	
Grand total			4,795,241	6,877,001	100.0	100.0	

(a) Percentage of direct equity for all overseas countries.