CHAPTER 5

MANUFACTURING INDUSTRY

Further detail on the subjects dealt with in this chapter is contained in the annual printed bulletins Manufacturing Industry and Manufacturing Commodities, formerly Secondary Industries, Parts I and II. 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 Statistical Publications of Australia of 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. Preliminary annual statements (Factory Statistics) and Principal Statistics of Factories, by Class of Industry and a monthly statement (Production Statistics) are also issued.

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

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).

The decentralization 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).

The Commonwealth Scientific and Industrial Research Organization, the Standards Association of Australia and the National Association of Testing Authorities are organizations which have 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 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. It has a membership fully representative of industry, commerce and government, together with designers and educationists and is financed by donations from industry and by Commonwealth grants. The Council is responsible for the Australian Design Index which provides a detailed, illustrated record of well-designed Australian products. A Record of Designers has been set up to register information about industrial designers and their work. The Council is also concerned, in co-operation with education authorities, with raising the standard of training in industrial design. For further particulars see Year Book No. 51, page 145.

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 the chapter Public Finance for products on which bounties are paid.)

Definitions in factory 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. Details relating to small establishments not classified for statistical purposes as factories are not included in the figures contained in this chapter.

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 if practicable.

Manufacturers are requested to state in their returns particulars as to 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.

All persons employed in the manufacturing activities of a factory are counted as factory employees including working proprietors and 'out-workers'.

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 the value, in the usual sense, of the materials used, 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, of lubricants and of 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 goods at the factory, exclusive of all delivery costs and charges and excise duties, but inclusive of bounty and subsidy payments to the manufacturer of the finished article. 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 raw 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 of one becoming the raw material of another, so that such commodities are counted more than once in the aggregate value of output and of raw materials. Examples are raw sugar passing from the mills to the refinery, metals from the smelters which become raw 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 the output, is used as a measure of activity in the manufacturing industries as a whole.

The rated horse-power of engines used for factories other than central electric stations relates to the rated horse-power of engines ordinarily in use.

Statistics relating to factory activity in the Australian Capital Territory and Northern Territory are not included in the figures contained in this chapter.

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 new 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 sub-classes shown below are published in the latter portion of this chapter, and full details for all sub-classes may be found in the bulletin Manufacturing Industry (previously entitled Secondary Industries, Part I-Factory and Building 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 pulverized coal
- Carbide
 Lime, plaster of paris, asphalt
 Fibrous plaster and products
 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 bottles 5. Other

Class 3. Chemicals, Dyes, Explosives, Paints, Oils, Grease

- Industrial and heavy chemicals and acids
 Pharmaceutical and toilet preparations
- Explosives (including fireworks)
 White lead, paints and varnish
- 5. Oils, vegetable 6. Oils, mineral 7. Oils, animal
- Boiling-down, tallow-refining
 Soap and candles
 Chemical fertilizers

- 11. Inks, polishes, etc. 12. Matches 13. Other

CLASS 4. INDUSTRIAL METALS, MACHINES, CONVEYANCES

- 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

- 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 mechanics

- Lead mins
 Sewing machines
 Arms, ammunition (excluding explosives)
 Wireless and amplifying apparatus
- 32. Wireless and ampli 33. Other metal works

- CLASS 5. PRECIOUS METALS, JEWELLERY, PLATE
 - 1. Jewellery
- Watches and clocks (including repairs)
 Electroplating (gold, silver, chromium, etc.)

CLASS 6. TEXTILES AND TEXTILE GOODS (NOT DRESS)

- Cotton ginning
 Cotton spinning and weaving
 Wool-carding, spinning, weaving
 Hosiery and other knitted goods
 Silk, natural

- Rayon, nylon and other synthetic fibres Flax mills
- 8. Rope and cordage

- 9. Canvas goods, tents, tarpaulins, etc.
 10. Bags and sacks
 11. Textile dyeing, printing and finishing
 12. Others

 13. Others

 14. Others

 15. Others

 16. Others

 17. Others

 18. Others 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)

- Tailoring and ready-made clothing
- Waterproof and oilskin clothing
- 3. Dressmaking, hemstitching
- Millinery

- 4. Minites,5. Shirts, collars, underclothing6. Foundation garments7. 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
- Dyeworks and cleaning, etc.
 Other

CLASS 9. FOOD, DRINK AND TOBACCO

- 1. Flour-milling
- Cereal foods and starch
- Animal and bird foods Chaffcutting and corncrushing Bakeries (including cakes and pastry)
- 6. Biscuits
- Sugar-mills
- 8. Sugar-refining
- 9. 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

CLASS 9. FOOD, DRINK AND TOBACCO-continued

- 15. Condensed and dried milk factories
- 16. Margarine
 17. Meat and fish preserving
- 18. Condiments, coffee, spices
 19. Ice and refrigerating
 20. Salt

- Salt
 Aerated waters, cordials, etc.
 Breweries
 Distilleries
 Wine-making
 Cider and perry
 Malting
 Bottling
 Tobacco, cigars, cigarettes, snuff
 Dehydrated fruit and vegetables
 Ice green
- 30. Ice cream
- 31. Sausage casings 32. Arrowroot 33. Other

CLASS 10. SAWMILLS, JOINERY, BOXES, ETC., WOOD TURNING AND CARVING

- 2. Plywood mills (including veneers)
 3. Bark mills
- 4. Joinery

- Joinery
 Cooperage
 Boxes and cases
 Woodturning, woodcarving, etc.
 Basketware and wickerware (including sea-grass and bamboo furniture)
 Perambulators (including pushers and strollers)
 Wall and ceiling boards (not plaster or cement)
 Other

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, BOOKBINDING, ETC.

- 1. Newspapers and periodicals
- Printing—
 Government
 General, including bookbinding
- 4. Manufactured stationery
- 5. Stereotyping, electrotyping
 6. Process and photo engraving
 7. Cardboard boxes, cartons and containers

- Paper bags
 Paper-making
 Pencils, penholders, chalks, crayons
- 11. Other

CLASS 13. RURRER

- Rubber goods (including tyres made)
 Tyre retreading and repairing

CLASS 14. MUSICAL INSTRUMENTS

- 1. Gramophones and gramophone records
- 2. Pianos, piano-players, organs

CLASS 15. MISCELLANEOUS PRODUCTS

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

- Brooms and brushes
 Optical instruments and appliances
 Surgical and other scientific instruments and appliances
 7. Photographic material (including developing and
- printing)
 8. Toys, games and sports requisites
 9. Artificial flowers
 10. Other

CLASS 16. HEAT, LIGHT, AND POWER

- 1-3. Electric light and power
- 4-6. Gas works

Factory development since 1901, Australia

The development of the manufacturing industries in Australia at intervals since 1901 is summarized in the following table.

FACTORIES: AUSTRALIA, 1901 TO 1964-65

						Value of		
Year	Fac- tories	Employ- ment(a)	Salaries and wages paid(b)	Materials and fuel used	Output	Pro- duction (c)	Land and build- ings	Plant and ma- chinery
1901 1911 1920-21 1930-31 1940-41 1950-51 1959-60 1960-61 1961-62 1962-63 1963-64 1964-65p	 No. 11,143 14,455 17,113 21,7300 43,147 56,657 57,782 58,450 59,146 59,375 60,650	'000 198 312 367 339 650 969 1,132 1,145 1,121 1,168 1,210 1,264	2,289,230 2,286,550 2,446,632	\$'000 n.a. 163,526 427,118 344,978 773,762 2,613,926 5,918,432 6,115,930 6,113,466 6,687,886 7,370,622 8,118,147	\$'000 n.a. 266,044 647,986 581,598 1,289,590 4,301,670 10,079,530 10,465,766 10,508,102 11,483,076 12,641,328 13,990,211	220,868 236,620 515,828 1,687,744 4,161,098 4,349,836 4,394,636 4,795,190 5,270,706	\$'000 n.a. 65,402 121,662 224,422 288,188 605,570 2,129,156 2,389,140 2,809,649 3,006,492 3,204,035 3,476,759	\$'000 n.a. 63,032 137,310 248,996 322,712 673,230 2,443,208 2,785,566 3,052,080 3,286,462 3,480,673 3,748,510

⁽a) 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. (b) Excludes drawings by working proprietors. (c) Value added in process of manufacture (i.e., value of output less value of materials and fuel, etc., used).

Number of factories

Number in each State

FACTORIES: NUMBER, STATES, 1959-60 TO 1963-64

Ye	Year		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.	
1959–60			23,274	16,979	5,758	4,684	4,279	1,683	56,657	
1960-61		.	23,585	17,173	5,882	5,042	4,334	1,766	57,782	
1961-62		.	23,629	17,300	5,824	5,519	4,418	1,760	58,450	
1962-63		.	23,729	17,500	5,895	5,766	4,492	1,764	59,146	
1963-64		.	23,642	17,597	5,955	5,826	4,609	1,746	59,375	

Number by class of industry

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

FACTORIES: NUMBER, BY CLASS OF INDUSTRY, AUSTRALIA 1959-60 TO 1963-64

Class of industry	1959-60	1960–61	1961-62	1962–63	1963–64
1. Treatment of non-metalliferous mine and quarry	1 274		1.454	1 402	
products	1,374	1,434	1,454	1,493	1,517
2. Bricks, pottery, glass, etc	682	694	694	692	692
3. Chemicals, dyes, explosives, paints, oils, grease	1,248	1,258	1,285	1,288	1,303
4. Industrial metals, machines, conveyances .	22,622	23,532	24,193	24,914	25,415
5. Precious metals, jewellery, plate	823	859	911	918	927
6. Textiles and textile goods (not dress)	1,435	1,421	1,386	1,368	1,358
7. Skins and leather (not clothing or footwear) .	727	703	671	656	645
8. Clothing (except knitted)	7,267	7,493	7,561	7,614	7,447
9. Food, drink and tobacco	7,449	7,331	7,251	7,161	7,034
10. Sawmills, joinery, boxes, etc., wood turning and		5 722	5 (24	6 531	6 400
carving	5,771	5,732	5,634	5,521	5,422
11. Furniture of wood, bedding, etc	2,211	2,176	2,157	2,154	2,181
12. Paper, stationery, printing, bookbinding, etc.	2,619	2,688	2,739	2,774	2,828
13. Rubber	620	629	650	659	674
14. Musical instruments	87	88	85	86	82
15. Miscellaneous products	1,330	1,370	1,409	1,486	1,494
Total, classes 1 to 15	56,265	57,408	58,080	58,784	59,019
16. Heat, light and power	392	374	370	362	356
Grand total	56,657	57,782	58,450	59,146	59,375

The following table shows the number of factories in each State classified by nature of industry.

FACTORIES: NUMBER, BY CLASS OF INDUSTRY, STATES, 1963-64

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non-metalliferous mine							
and quarry products	520	480	118	192	149	58	1,517
2. Bricks, pottery, glass, etc.	309	189	50	76	49	19	692
3. Chemicals, dyes, explosives, paints, cils, grease	614	395	90	100	76	28	1,303
4. Industrial metals, machines, convey-	0.1	3,3	,,,	100	, ,	20	-
ances	10,255	7,041	2,500	2,841	2,160	618	25,415
5. Precious metals, jewellery, plate .	353	251	44	174	86	19	927
6. Textiles and textile goods (not dress)	433	773	33	57	42	20	1,358
7. Skins and leather (not clothing or footwear)	291	246	42	38	23	5	645
8. Clothing (except knitted)	3,356	2.506	557	573	368	87	7,447
9. Food, drink and tobacco	2,467	1,957	967	737	621	285	7,034
10. Sawmills, joinery, boxes, etc., wood	1 1	_,			, , ,		,
turning and carving	2,008	1,323	784	413	454	440	5,422
11. Furniture of wood, bedding, etc.	789	644	276	221	181	70	2,181
12. Paper, stationery, printing, book- binding, etc.	1 100	1 020	221	193	140	46	2,828
13. Rubber	1,182 234	1,038 183	221 120	193 59	148 58	20	674
14. Musical instruments	36	21	120	11	7	20	82
15. Miscellaneous products	710	494	78	108	90	14	1,494
Total, classes 1 to 15	23,557	17,541	5,887	5,793	4,512	1,729	59,019
16. Heat, light and power	85	56	68	33	97	17	356
Grand total	23,642	17,597	5,955	5,826	4,609	1,746	59,375

Classification of factories by number of persons employed

The classification of factories in the tables on pages 96-8 is based on the average weekly number of persons employed during the period of operation (including working proprietors).

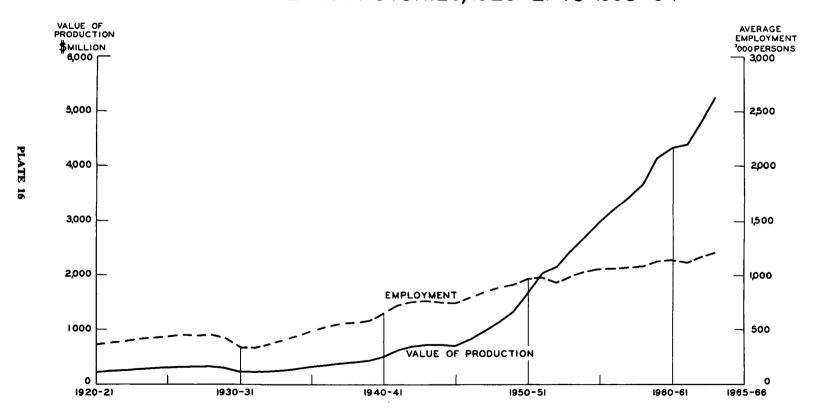
States

The following table shows, for each State, the number of factories and the average number of persons employed therein, classified by the average number of persons employed.

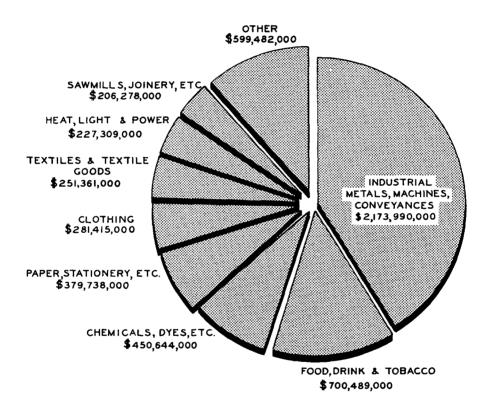
FACTORIES: NUMBER OF FACTORIES AND PERSONS EMPLOYED, BY AVERAGE NUMBER EMPLOYED, STATES, 1963-64

Persons employed	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.						
NUMBER OF FACTORIES													
Under 4	10,169	6,256	2,147	2,678	2,298	751	24,299						
4 <i>.</i>	1,865	1,361	523	465	391	155	4,760						
5 to 10	5,270	4,154	1,593	1,259	934	414	13,624						
11 to 20	2,795	2,437	756	636	447	198	7,269						
21 to 50	2,012	1,919	555	446	342	140	5,414						
51 to 100	802	735	183	184	115	44	2,063						
101 to 200	388	401	106	82	51	26	1,054						
201 to 300	118	147	45	30	21	5	366						
301 to 400	67	55	19	15	4	4	164						
401 to 500	47	33	11	3	3	1	98						
501 to 750	44	62	9	12		2 أ	129						
751 to 1,000	29	13	4	6	1	1	54						
Over 1,000	36	24	4	10	2	5	81						
Total	23,642	17,597	5,955	5,826	4,609	1,746	59,375						

VALUE OF PRODUCTION AND AVERAGE EMPLOYMENT IN AUSTRALIAN FACTORIES, 1920-21 TO 1963-64



VALUE OF PRODUCTION* OF AUSTRALIAN FACTORIES BY INDUSTRY, 1963-64



^{* &}quot;VALUE OF PRODUCTION" IS THE VALUE ADDED IN THE PROCESS OF MANUFACTURE

TOTAL -\$5,270,706,000

PLATE 17

FACTORIES: NUMBER OF FACTORIES AND PERSONS EMPLOYED, BY AVERAGE NUMBER EMPLOYED, STATES, 1963-64—continued

Persons emplo	yed	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
AV	ERA	GE NUM	BER EMP	LOYED I	OURING E	PERIOD V	VORKED	·
Under 4 .		18,593	12,217	4,439	4,912	4,222	1,448	45,831
4		7,460	5,444	2,092	1,860	1,564	620	19,040
5 to 10 .		36,732	29,181	10,955	8,693	6,437	2,922	94,920
11 to 20 .		40,823	35,854	11,002	9,338	6,473	2,872	106,362
21 to 50 .		63,105	61,022	17,641	14,062	10,737	4,560	171,127
51 to 100 .		55,928	51,945	12,863	12,692	7,968	3,132	144,528
101 to 200 .		54,113	56,335	15,175	11,642	7,106	3,435	147,806
201 to 300 .		28,587	36,104	11,019	7,199	4,915	1,262	89,086
301 to 400 .		23,226	19,366	6,411	5,347	1,350	1,388	57,088
401 to 500 .		21,250	14,771	4,975	1,324	1,435	482	44,237
501 to 750 .		26,563	37,269	5,432	7,191		1,260	77,715
751 to 1,000		24,925	11,240	3,516	5,120	790	800	46,391
Over 1,000.		89,585	44,161	5,952	21,768	3,866	8,057	173,389
Total .	•	490,890	414,909	111,472	111,148	56,863	32,238	1,217,520
Average per factory.	٠	20.76	23.58	18.72	19.08	12.34	18.46	20.51

Australia

The following table gives details for Australia according to broad groups.

FACTORIES: NUMBER OF FACTORIES AND PERSONS EMPLOYED, BY AVERAGE NUMBER EMPLOYED, AUSTRALIA, 1959-60 TO 1963-64

		Es	stablishme	nts emplo	ying on th	ne average		
Year	20 and	l under	21 to	100	101 and	upwards	Total	
	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed
1959–60— Number	47,791	258,162 5.40	7,078	293,400 41.45	1,788	587,832 328.77	56,657	1,139,394 20.11
1960-61— Number . Average per establishment .	48,728	260,276 5.34	7,241	301,251 41.60	1,813	591,808 326.42	57 , 782	1,153,335 19.96
1961-62— Number . Average per establishment .	49,546	261,679 5.28	7,111	296,907 41.75	1,793	569,976 317.89	58,450	1,128,562 19.31
1962-63— Number	50,057	265,802 5.31	7,217	304,694 42.22	1,872	603,896 322.59	59,146	1,174,392 19.86
1963-64 Number	49,952	266,153 5.33	7,477	315,655 42.22	1,946	635,712 326.68	59,375	1,217,520 20.51

Classes of industry

In the following table factories are classified by industrial classes in the same broad groups. 69/66.—4

FACTORIES: NUMBER OF FACTORIES AND PERSONS EMPLOYED, BY AVERAGE NUMBER EMPLOYED AND CLASS OF INDUSTRY, AUSTRALIA, 1963-64

		E	stablishme	nts emplo	ying on tl	ne average		
Class of industry	20 and	under	21 to	o 100	101 and	upwards	Total	
-	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed	Es- tablish- ments	Persons em- ployed
1. Treatment of non-metal-								
liferous mine and quarry	4 210			6550	42			24.026
products 2. Bricks, pottery, glass, etc.	1,318 431	7,141	156 214	6,556 9,854	43 47	11,129	1,517	24,826 25,857
3. Chemicals, dyes, explos-	731	3,213	217	7,054	7′	12,700		23,037
ives, paints, oils, grease.	916	5,961	278	13,129	109	30,439	1,303	49,529
4. Industrial metals, mach- ines, conveyances	21,991	110,548	2,622	110.080	802	333,791	25,415	554,419
5. Precious metals, jewellery,	21,551	110,540	2,022	110,000	002	333,771	20,410	334,413
plate	881	3,799	44	1,522	2	244	927	5,565
6. Textiles and textile goods (not dress)	810	5,894	373	16,699	175	50,892	1,358	73,485
7. Skins and leather (not	610	3,074	313	10,033	1/3	30,032	1,336	/3,403
clothing or footwear) .	494	3,107	132	5,391	19	3,774	645	12,272
8. Clothing (except knitted).	6.202	31,056	1,068	44,304	177	34,628	7,447	109,988
9. Food, drink and tobacco 10. Sawmills, joinery, boxes,	5,922	30,502	864	38,106	248	67,758	7,034	136,366
etc., wood turning and						i	İ	
carving	4,803	28,065	559	21,340	60	9,277	5,422	58,682
11. Furniture of wood, bed- ding, etc.	1,911	9.849	250	9,654	20	3.218	2,181	22,721
12. Paper, stationery, printing,	1,711	2,042	230),054	•	3,210	2,101	
bookbinding, etc	2,089	14,697	608	25,541	131	39,166	2,828	79,404
13. Rubber	591	2,973	53	2,288	30	15,121	674	20,382
14. Musical instruments15. Miscellaneous products	73 1,252	7,639	195	450 8,444	47	11,481	82 1,494	784 27,564
13. Miscenaneous products .	1,232	7,039	193	0,444	"'	11,401	1,494	27,304
Total, classes 1 to 15.	49,684	264,780	7,425	313,358	1,910	623,706	59,019	1,201,844
16. Heat, light and power .	268	1,373	52	2,297	36	12,006	356	15,676
Grand total	49,952	266,153	7,477	315,655	1,946	635,712	59,375	1,217,520

Employment in factories

Number employed

All persons employed in the manufacturing activities of a factory, including proprietors who work in their own business and 'out-workers' (see page 101), are counted as factory employees, while those employed in selling and distributing, such as salesmen, travellers, collectors, carters employed solely on outward delivery of manufactured goods, and retailing storemen, are excluded. 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, craftsmen 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 the number of persons employed (see page 96), which is based on the average number employed over the period worked.

Particulars of the numbers employed in Australia, the increase in employment, and the rate per cent. of such increase are given in the following table.

EMPLOYMENT IN FACTORIES

FACTORIES: EMPLOYMENT, AUSTRALIA, 1959-60 TO 1963-64

			Males			Females		Persons			
Year		Number em-	Increase on preceding year		Number em-	Increase on preceding year		Number em-	Increase on preceding year		
		ployed	Number	Per cent	ployed	Number	Per cent	ployed	Number	Per cent	
1959-60. 1960-61. 1961-62. 1962-63. 1963-64.	:	 862,515 872,632 857,971 888,697 918,130	10,117 -14,661 30,726	1.17 -1.68 3.58	269,492 272,720 263,299 278,832 291,790	3,228 -9,421 15,533	1.20 -3.45	1,132,007 1,145,352 1,121,270 1,167,529 1,209,920	13,345 -24,082 46,259	1.18 -2.10	

Minus sign (-) indicates decrease.

The following table shows the average number of persons employed in manufacturing industries in each State; the percentage for each State 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, 1959-60 TO 1963-64

Y	'ear			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Average num during full weeks)—	ber year	emplo (fifty-	yed two							
1959-60.				467,139	381,844	104,693	99,018	49,651	29,662	1,132,007
1960-61.				472,061	388,050	104,462	99,955	50,666	30,158	1,145,352
1961-62.				461,087	378,349	101,637	99,094	51,033	30,070	1,121,270
1962–63.				475,249	397,827	104,998	105,265	53,435	30,755	1,167,529
1963–64.		•		487,753	413,120	110,696	110,813	55,705	31,833	1,209,920
Percentage of	Austr	alian t	otal							
1959-60.				41.27	33.73	9.25	8.75	4.39	2.62	100
1960-61.			- :	41.22	33.88	9.12	8.73	4.42	2 63	100
1961-62.				41 12	33.74	9 07	8 84	4.55	2.68	100
1962-63.			·	40.71	34.07	8 99	9 02	4.58	2.63	100
1963-64.				40.31	34.14	9.15	9.16	4.60	2.63	100
Per 1,000 of po	mulat	ion—								
1959–60.	· puiu			123	135	71	106	69	86	111
1960-61.	•		:	122	134	70	104	69	86	iii
1961-62.	•	•	•	117	128	67	iŏi	68	84	107
1962-63.	•	•	•	118	132	68	105	70	85	109
	•	•								
1963-64.	•	•	•	119	134	70	109	71	87	iĭí

Rates of increase in employment

The percentage increase on the average number of persons employed in the preceding year is shown below for each State.

FACTORIES: ANNUAL PERCENTAGE INCREASE OF PERSONS EMPLOYED, STATES, 1959-60 TO 1963-64

	Y	еаг			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1959-60 1960-61 1961-62 1962-63 1963-64	:	:	:	:	3.92 1.05 -2.32 3.07 2.63	5.20 1.63 -2.50 5 15 3.84	-0.06 -0.22 -2.70 3.31 5.43	5.15 0 95 -0 86 6 23 5 27	2.55 2.04 0.72 4.71 4.25	4 36 1 67 -0 29 2 28 3.51	4.02 1.18 -2 10 4 13 3.63

Minus sign (-) indicates decrease.

Persons employed, by class of industry

The following table shows the average number of persons employed in factories in each industrial class in Australia.

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED, BY CLASS OF INDUSTRY, AUSTRALIA, 1959-60 TO 1963-64

Class of industry	1959-60	1960-61	1961–62	1962–63	1963–64
1. Treatment of non-metalliferous mine and					
quarry products	21,778	23,363	23,182	23,889	24,704
2. Bricks, pottery, glass, etc	24,308	24,612	24,108	25,152	25,656
3. Chemicals, dyes, explosives, paints, oils,	-				
grease	47,617	46,833	46,830	47,535	49,023
4. Industrial metals, machines, conveyances .	498,522	510,559	497,579	525,312	552.795
5. Precious metals, jewellery, plate	5,308	5,342	5,226	_5,308	5,543
6. Textiles and textile goods (not dress) .	72,263	71,092	67,949	72,022	73,076
7. Skins and leather (not clothing or footwear)	12,952	12,310	11,955	12,264	12,209
8. Clothing (except knitted)	106,830	107,158	104,655	107,932	108,939
9. Food, drink and tobacco	126,154	126,477	128,590	131,301	134,487
10. Sawmills, joinery, boxes, etc., wood turning					
and carving	61,651	60,810	57,279	57,114	57,650
11. Furniture of wood, bedding, etc	22,902	22,219	21,374	21,815	22,545
12. Paper, stationery, printing, bookbinding, etc.	71,672	74,582	73,839	76,263	79,250
13. Rubber	18,663	18,395	17,174	18,916	20,261
14. Musical instruments	936	812	733	749	779
15. Miscellaneous products	23,851	24,757	24,682	26,124	27,422
Total, classes 1 to 15	1,115,407	1,129,321	1,105,155	1,151,696	1,194,309
16. Heat, light and power	16,600	16,031	16,115	15,833	15,611
Grand total	1,132,007	1,145,352	1,121,270	1,167,529	1,209,920

Particulars of the numbers employed in each industrial class are shown for each State in the following table.

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED, BY CLASS OF INDUSTRY, STATES, 1963-64

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Treatment of non-metallife	rous mine	1		İ	i		
and quarry products .	9,837	7,496	2,441	2,325	1,786	819	24,704
2. Bricks, pottery, glass, etc.	12,542		1,665	2,203	1,580	367	25,656
Chemicals, dyes, explosive	s, paints,	1 '			1	i	
oils, grease	23,994	16,396	1,714	3,215	2,761	943	49,023
Industrial metals, machine		1	1				
conveyances	. 239,533		41,392	64,479	24,924	10,719	552,795
5. Precious metals, jewellery,	plate . 2,254		331	571	229	45	5,543
6. Textiles and textile goods (not dress) 21,275	42,674	2,297	2,522	882	3,426	73,076
7. Skins and leather (not cl footwear)		2 000	1 220	1 202	590	47	12 200
8. Clothing (except knitted)	5,171		1,229 7,883	1,203	2,984	710	12,209
9. Food, drink and tobacco	44,852		27,858	5,312 11,614	7,793	5,053	134,487
10. Sawmills, joinery, boxes, e	to wood 41,337	40,632	27,000	11,014	1,175	3,033	134,467
turning and carving	18,944	14,521	9,439	5,457	5,403	3.886	57,650
11. Furniture of wood, beddin	g, etc. 8,818		2,877	2,332	1,386	5,500	22,545
12. Paper, stationery, printing	5, 0.0.	0,005	2,0	2,332	1,500	1 22.	1 -2,5.5
bookbinding, etc.	32,639	27,075	6,762	4,986	3,105	4,683	79,250
13. Rubber	7,941		2,024	1,248	413	129	20,261
14. Musical instruments .			28	32	34		779
15. Miscellaneous products.	12,718	11,791	751	1,381	670	111	27,422
Total, classes 1 to 15	482,348	408,385	108,691	108,880	54,540	31,465	1,194,309
16. Heat, light and power .	5,405	4,735	2,005	1,933	1,165	368	15,611
Grand total	487,753	413,120	110,696	110,813	55,705	31,833	1,209,920

Persons employed, by occupational grouping

In the following table, the average number of persons employed in each State is classified according to occupational grouping.

FACTORIES: AVERAGE NUMBER OF PERSONS EMPLOYED, BY OCCUPATIONAL GROUPING, STATES, 1963–1964

				Average number of persons employed							
State				Working proprietors	Managerial and clerical staff, etc.(a)	Chemists, draftsmen, etc.	Foremen and overseers, workers in factory and others(b)	Total			
New South Wales				13,730	65,075	9,483	399,465	487,753			
Victoria				12,641	53,637	8,291	338,551	413,120			
Queensland .				4,684	12,610	1,419	91,983	110,696			
South Australia				4,050	14,079	2,087	90,597	110,813			
Western Australia				2,940	5,581	705	46,479	55,705			
Tasmania	٠	•		1,001	3,580	622	26,630	31,833			
Total males				33,224	94,936	20,319	769,651	918,130			
Total females	•		•	5,822	59,626	2,288	224,054	291,790			
Total persons				39,046	154,562	22,607	993,705	1,209,920			

⁽a) Includes salaried managers and working directors 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.

Monthly employment

The following table shows the number of persons (excluding working proprietors) employed in factories in Australia on the last pay-day of each month.

FACTORIES: MONTHLY EMPLOYMENT, BY SEX, AUSTRALIA, 1959-60 TO 1963-64 (EXCLUDING WORKING PROPRIETORS)

	Mon	th		1959–60	1960–61	1961–62	1962–63	1963–64
				MAI				
J uly .				811,912	845,121	809,905	843,123	867,166
August .				814,297	846,811	811,299	845,760	869,030
September				817,277	849,102	806,999	847,798	872,38
October .			. 1	820,178	849,728	816,821	849,866	875,318
November			. 1	821,316	849,822	820,987	852,304	879,26
December.		•	.	817,217	843,597	817,113	847,041	875,159
January .			.]	825,444	844,572	822,723	852,999	884,78
February .			.	831,572	839,035	831,156	859,665	893,40
March .			. 1	835,946	830,339	835,457	862,830	894,39
April .				835,836	824,056	832,975	861,107	897,78
May .			. 1	839,709	818,629	837,562	861,180	898,80
June .			. 1	841,482	810,778	839,752	863,067	901,50

⁽b) Includes persons working regularly at

FACTORIES: MONTHLY EMPLOYMENT BY SEX, AUSTRALIA, 1959-60 TO 1963-64—continued

	Mon	tn			1959–60	1960–61	1961–62	1962–63	1963–64
					FEM	ALES	·		
July .			_		251,512	270,378	243,925	266,207	274.312
August .	•	•	:	•	253,864	272,564	245,968	267,761	277,063
September	·	-			257,906	274,774	248,775	270,536	279,713
October .			-		260,105	275,729	253,573	272,789	283,778
November			-		262,514	276,314	256,349	273,845	285,296
December	•	•	•		259,753	271,485	255,869	270,355	282,296
January .					260,749	267,480	257,832	270,810	283,279
February .	•	•	:	÷	267,234	269,105	264,011	276,901	291,966
March .	•	•	•	÷	270,364	263,719	267,065	280,285	293,424
April .	•	•	•	·	267,916	256,579	261,611	274,379	290,823
May.	•	•	•	÷	269,200	250,238	264,132	273,326	290,301
June	:		•		270,402	245,176	264,473	272,074	290,833
					PERS	SONS			
July .					1,063,424	1,115,499	1,053,830	1,109,330	1,141,478
August .	•	•	•	•	1,068,161	1,119,375	1,057,267	1,113,521	1.146.093
September	•	•	•	•	1,075,183	1,113,876	1,057,207	1,118,334	1,152,094
October .	•	•	•	•	1,080,283	1,125,457	1,070,394	1,122,655	1,159,096
November	•	•	•	•	1,083,830	1,126,136	1,077,336	1,126,149	1,164,561
December	•	•	•	•	1,085,830	1,115,082	1,077,982	1,117,396	1,157,455
December	•	•	•	•	1,070,970	1,113,062	1,072,982	1,117,390	1,157,455
January .					1,086,193	1,112,052	1,080,555	1,123,809	1,168,067
February .					1,098,806	1,108,140	1,095,167	1,136,566	1,185,366
March .					1,106,310	1,094,058	1,102,522	1,143,115	1,187,817
April .					1,103,752	1,080,635	1,094,586	1,135,486	1,188,606
May					1,108,909	1,068,867	1,101,694	1,134,506	1,189,110
June					1,111,884	1,055,954	1,104,225	1,135,141	1,192,340

Particulars of the numbers employed in each State on the last pay-day of each month are shown in the following table.

FACTORIES: MONTHLY EMPLOYMENT, BY SEX, STATES, 1963-64 (EXCLUDING WORKING PROPRIETORS)

N	Month			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.				
MALES														
July .				347,549	277,844	87,739	85,403	43,988	24,643	867,166				
August.				348,563	278,450	87,702	85,556	44,000	24,759	869,030				
September				349,911	279,848	87,750	85,922	44,106	24,844	872,381				
October.				351,630	280,976	86,860	86,178	44,694	24,980	875,318				
November				353,365	282,777	86,299	86,505	45,176	25,143	879,265				
December	•	•		352,529	283,282	81,592	86,646	45,511	25,599	875,159				
January				355,309	285,877	84,272	87,879	45,807	25,644	884,788				
February				357,865	288,484	86,728	88,446	46,161	25,716	893,400				
March .				358,411	288,964	86,448	88,810	46,115	25,645	894,393				
April .				359,330	289,126	88,610	89,032	45,975	25,710	897,783				
May .				359,029	289,058	89,906	89,300	45,933	25,583	898,809				
June .				360,327	290,058	90,489	89,528	45,713	25,392	901,507				

FACTORIES: MONTHLY EMPLO	YMENT. BY	SEX. STATES.	1963-64—continued
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Month	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
			FEMALE	s			
July	. 115,236	110,455	18,710	17,976	6,991	4,944	274,312
August .	. 116,457	111,433	19,042	18,029	7,072	5,030	277,063
September .	. 117,903	112,510	18,980	18,302	7,024	4,994	279,713
October .	. 119,919	114,400	18,713	18,495	7,181	5,070	283,778
November .	. 120,696	114,776	18,628	18,726	7,243	5,227	285,296
December .	. 118,309	113,796	18,226	19,319	7,255	5,391	282,296
January .	. 117,691	115,246	18,147	19,599	7,156	5,440	283,279
February .	. 120,649	118,673	19,261	20,324	7,398	5,661	291,966
March .	. 121,271	119,386	19,075	19,984	7,562	6,146	293,424
April .	. 120,921	117,548	18,623	19,774	7,690	6,267	290,823
May	. 121,075	116,874	19,076	19,657	7,513	6,106	290,301
June	. 121,707	117,036	19,248	19,554	7,387	5,901	290,833
		·	PERSON	S	·	·	,
July	. 462,785	388,299	106,449	103,379	50,979	29,587	1,141,478
August .	465 030	389,883	106,744	103,585	51,072	29,789	1,146,093
September.	467 014	392,358	106,730	104,224	51,130	29,838	1,152,094
October .	471,549	395,376	105,573	104,673	51,875	30,050	1,159,096
November .	474,061	397,553	104,927	105,231	52,419	30,370	1,164,561
December .	470,838	397,078	99,818	105,965	52,766	30,990	1,157,455
January .	. 473,000	401,123	102,419	107.478	52,963	31,084	1,168,067
February .	478,514	407,157	105,989	108,770	53,559	31,377	1,185,366
March .	479,682	408,350	105,523	108,770	53,677	31,791	1,187,817
April .	480,251	406,674	107,233	108,806	53,665	31,977	1,188,606
May	480,104	405,932	108,982	108,957	53,446	31,689	1,189,110
June	482,034	407,094	109,737	109,082	53,100	31,293	1,192,340
	1,		,	,	,-,-		_,,_,

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 JUNE, 1960 TO JUNE, 1964

(EXCLUDING WORKING PROPRIETORS)

					Males		Females			Persons			
	Jun	e —		Under 16 years	16 to 20 years	21 years and over	Under 16 years	16 to 20 years	21 years and over	Under 16 years	16 to 20 years	21 years and over	
1960 1961 1962	•	:	:	8,627 8,849 9,176	82,066 79,981 86,548	750,789 721,948 744,028	7,457 7,162 8,764	48,845 44,457 48,847	214,100 193,557 206,862	16,084 16,011 17,940	130,911 124,438 135,395	964,889 915,50 5 950,89 0	
1963 1964		•	:	8,736 8,632	92,211 100,164	762,120 792,711	7,852 7,130	51,803 55,533	212,419 228,170	16,588 15,762	144,014 155,697	974,539 1.020,881	

Distribution of sexes in factories

Average number of males and females employed

The following table shows the average number of males and females employed in factories in each State.

FACTORIES: MALES AND FEMALES EMPLOYED, STATES, 1959-60 TO 1963-64

State			195960	1960–61	1961-62	1962–63	1963–64
				MALES			
New South Wales		.	351,208	355,392	349,154	358,116	366,250
Victoria		•	275,645	280,207	273,949	285,685	295,440
Queensland .		. \	86,985	86,488	84,130	86,536	91,123
South Australia	•	•	81,312	81,898	81,803	86,655	90,933
Western Australia	•	•	42,957	43,836	44,193	46,252	48,163
Tasmania	•	•	24,408	24,811	24,742	25,453	26,221
Australia .			862,515	872,632	857,971	888,697	918,130
		<u>'</u>	F	EMALES			
New South Wales			115,931	116,669	111,933	117,133	121,503
Victoria		. 1	106,199	107,843	104,400	112,142	117,680
Oueensland .	·	.	17,708	17,974	17,507	18,462	19,573
South Australia		`. I	17,706	18,057	17,291	18,610	19,880
Western Australia		.	6,694	6,830	6,840	7,183	7,542
Tasmania		.	5,254	5,347	5,328	5,302	5,612
Australia .			269,492	272,720	263,299	278,832	291,790

Rate of annual variation for each sex

The percentages of increase or decrease on the average numbers of males and females employed in the preceding year are shown in the following table.

FACTORIES: ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED, STATES, 1959-60 TO 1963-64

State		1959–60	1960-61	1961–62	1962–63	1963–64
	 		MALES	<u>`</u>		
New South Wales Victoria Queensland . South Australia Western Australia Tasmania Australia .	 •	3.07 4.47 -0.54 5.02 2.40 3.85 3.30	1.19 1.66 -0.57 0.72 2.05 1.65	-1.76 -2.23 -2.73 -0.12 0.81 -0.28 -1.68	2.57 4.28 2.86 5.93 4.66 2.87 3.58	2.27 3.41 5.30 4.94 4.13 3.02
		F	EMALES			
New South Wales Victoria Queensland . South Australia Western Australia	 •	6.59 7.13 2.36 5.78 3.53 6.79	0.64 1.55 1.50 1.98 2.03 1.74	-4.06 -3.19 -2.66 -4.24 0.15 -0.36	4.65 7.42 5.45 7.63 5.01 -0.49	3.73 4.94 6.02 6.82 5.00 5.85
Tasmania						

Minus sign (-) indicates decrease.

Masculinity of persons employed

The following table shows the proportion of males to females employed in factories in each State.

FACTORIES: MASCULINITY(a) OF PERSONS EMPLOYED STATES, 1959-60 TO 1963-64

	Year		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1959-60.			303	259	491	459	642	465	320
1960-61.			305	260	481	454	642	464	320
1961-62.			312	262	481	473	646	464	326
1962-63.			306	254	469	466	644	480	319
1963-64.			301	251	466	457	639	467	315

⁽a) 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 1963-64 these industries accounted for 78.02 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 142 females to every 100 males, and in Class 8., Clothing, with 260 females to every 100 males. The following table shows the average number of male and females employed in each of the four classes.

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, STATES, 1963-64

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Males— 4. Industrial metals, etc. 6. Textiles and textile goods (not dress) 8. Clothing (except knitted) 9. Food, drink and tobacco All other classes Total males	207,684 8,703 11,501 27,978 110,384 366,250	148,493 17,374 13,723 27,541 88,309 295,440	38,430 869 2,007 22,890 26,927 91,123	57,032 1,237 1,812 7,936 22,916 90,933	23,637 471 881 5,933 17,241 48,163	10,125 1,565 305 3,473 10,753	485,401 30,219 30,229 95,751 276,530 918,130
Females— 4. Industrial metals, etc. 6. Textiles and textile goods (not dress) 8. Clothing (except knitted) 9. Food, drink and tobacco All other classes Total females	31,849 12,572 33,351 13,359 30,372 121,503	23,255 25,300 33,445 13,291 22,389 117,680	2,962 1,428 5,876 4,968 4,339	7,447 1,285 3,500 3,678 3,970 19,880	1,287 411 2,103 1,860 1,881 7,542	594 1,861 405 1,580 1,172 5,612	67,394 42,857 78,680 38,736 64,123 291,790

Children employed in factories

Number of children employed

In the returns for the various States the term 'child' denotes any person under sixteen years of age. The following table shows the number of children of each sex employed in manufacturing industries in June of each year.

FACTORIES: CHILDREN(a) EMPLOYED, STATES, JUNE 1962 TO JUNE 1964

a.		June 1962	2		June 1963	3	June 1964		
State	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
New South Wales Victoria Queensland South Australia Western Australia Tasmania	2,955 2,625 1,521 953 1,031 91	2,646 3,049 1,564 993 411 101	5,601 5,674 3,085 1,946 1,442 192	2,623 2,444 1,665 893 1,016	2,196 2,653 1,630 872 432 69	4,819 5,097 3,295 1,765 1,448 164	2,854 2,072 1,987 677 919 123	2,215 2,207 1,494 721 397 96	5,069 4,279 3,481 1,398 1,316 219
Australia .	9,176	8,764	17,940	8,736	7,852	16,588	8,632	7,130	15,762

Industries employing children

The distribution of children employed in factories and the proportion of children employed to total employees, by the main classes of industry employing persons under sixteen years of age, are shown in the following table.

FACTORIES: CHILDREN(a) EMPLOYED, BY SEX, AND CLASS OF INDUSTRY AUSTRALIA, JUNE 1964

Class of industry	Children (a		Total en		Proportion (per cent) of children employed to total employees (h)	
	Males	Females	Males	Females	Males	Females
Industrial metals, machines, conveyances .	4,144	628	483,129	70,106	0.86	0.90
Textiles and textile goods (not dress) Clothing (except knitted)	368 478	1,203 3,225	29,964 25,317	42,846 76,705	1.23	2.81 4.20
Food, drink and tobacco	1,112	819	92,312	36,638	1.20	2.24
Sawmills, joinery, boxes, etc	840	74	51,051	3,528	1.65	2.10
Furniture of wood, bedding, etc Paper, stationery, printing, bookbinding	412	102	16,210	4,828	2.54	2.11
etc	507	594	57,431	21,004	0.88	2.83
All other industries	771	485	146,093	35,178	0.53	1.38
Total	8,632	7,130	901,507	290,833	0.96	2.45

⁽a) Under sixteen years of age.

Apprenticeship

Acts are in force in all States for the regulation of the age at which children may be employed in gainful occupations. Legislative provision is also made for the regulation of apprenticeship under the various State Factories Acts or Arbitration Acts. These Acts, while laying down general principles, leave to the wages tribunals the actual determination of the conditions under which apprentices may be employed.

Power equipment in factories

Since 1936-37 statistics of power equipment in factories relate to the 'rated horse-power' of engines ordinarily in use and engines in reserve or idle, omitting obsolete engines. In addition, particulars of the power equipment of central electric stations are collected in greater detail. To avoid duplication it is essential that some distinction should be made between central electric stations and other classes of industries. In the following tables central electric stations have been treated separately from other factories.

Rated horse-power of engines in factories other than central electric stations

The following table shows the total number of factories and the total rated horse-power of engines and electric motors ordinarily in use and in reserve or idle during 1963-64.

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, STATES, 1963-64

				Rated ho of engines	
State			Factories(a)	Ordinarily in use(b)	In reserve or idle (omitting obsolete)
New South Wales	_		23,592	2,900,288	391,525
Victoria	·		17,568	1,781,362	240,169
Queensland .			5,903	637,514	93,429
South Australia			5,797	560,601	63,452
Western Australia			4,515	327,425	49,386
Tasmania	٠	•	1,731	314,636	46,830
Australia .			59,106	6,521,826	884,791

⁽a) Includes gas works but excludes central electric stations, details of which are shown on pp. 108-9. (b) Excludes motors driven by electricity generated in factories not classified as central electric stations.

⁽b) Excludes working proprietors.

Rated horse-power of engines and electric motors ordinarily in use, by type

Particulars of the types and the total rated horse-power of engines, etc., ordinarily in use in each State are given below.

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE, BY TYPE, STATES, 1963-64

	Steam		Inter	nal combu	stion		Motors of elect		
State	Recipro- cating	Tur- bine	Gas	Petrol or other light oils	Heavy Oils	Water	Pur- chased	Own generation (d)	Total (b)(c)
New South Wales . Victoria	51,642 17,081 72,788 2,771 9,734 612	230,519 98,724 79,744 16,575 13,559	5,868 2,665 1,771 393 3,395	48,651 20,080	17,982 1,980 7,278 1,487 4,205 200	 840 	2,556,383 1,611,421 455,853 529,262 273,444 302,277	60,992 121,707	560,601
Australia .	154,628	439,121	14,092	151,373	33,132	840	5,728,640	335.580	6,521,826

⁽a) Includes gas works but excludes central electric stations, details of which are shown on pp. 108-9. Excludes motors driven by electricity generated in factories not classified as central electric stations.

(c) Excludes particulars in column (d).

In the following table details of the total rated horse-power of the various types of engines in use are given for Australia.

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE, BY TYPE, AUSTRALIA, 1959-60 TO 1963-64

			Ster	am	Inter	nal combu	stion		Motors of	driven by ricity	
Y	ear		Recipro- cating	Tur- bine	Gas	Petrol or other light oils	Heavy oils	Water	Pur- chased	Own genera- tion (d)	Total (b)(c)
1959-60 1960-61 1961-62 1962-63 1963-64	:	:	188,892 177,892 169,287 165,312 154,628	328,116 334,908 359,631 397,213 439,121	9,484 9,045 11,687 13,618 14,092	137,820	48,441 42,238 40,142 36,906 33,132	1,092 1,092 900	4,558,175 4,843,868 5,025,141 5,376,052 5,728,640	293,051 308,740 322,828	5,272,035 5,549,427 5,744,800 6,132,786 6,521,826

Rated horse-power of engines and electric motors ordinarily in use, by class of industry

The next table shows the total rated horse-power of engines and electric motors ordinarily in use in the various classes of industry in each State.

⁽a) Includes gas works but excludes central electric stations, details of which are shown on pp. 108-9.

(b) Excludes motors driven by electricity generated in factories not classified as central electric stations.

(c) Excludes particulars in column (d).

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE(b), BY CLASS OF INDUSTRY, STATES, 1963-64

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non-metalliferous mine				i			
and quarry products	112,415	99,735	29,474	39,928	22,699	21,292	325,543
2. Bricks, pottery, glass, etc	72,801	52,295	12,580	14,144	14,220	3,341	169,381
Chemicals, dyes, explosives, paints,		-	,				
oils, grease	292,477	201,651	13,271	39,174	56,344	17,200	620,117
4. Industrial metals, machines, convey-	l						
ances	1,602,430		131,766	267,095			2,777,713
5. Precious metals, jewellery, plate	4.699		533	1,185	769	96	
6. Textiles and textile goods (not dress)	63,664	113,140	8,036	8,592	3,595	10,350	207,377
7. Skins and leather (not clothing or footwear)	10.227	10.000	c 200	c 200	3.059	507	52,229
8. Clothing (except knitted)	19,237 28,369		6,399 5,370	6,360 4,438			
9. Food, drink and tobacco	244,900		260,846	69,548	49,584		
10. Sawmills, joinery, boxes, etc., wood	244,500	230,119	200,840	09,546	47,504	20,313	051,570
turning and carving	195,527	133,933	118,619	55,149	56,441	53,284	612,953
11. Furniture of wood, bedding, etc.	20,037		7,941	7,590		1,589	
12. Paper, stationery, printing, book-	20,007	1 .,,,,,,	,,- ,,	,,,,,	.,220	2,002	,
binding, etc	114,528	122,074	26,529	27,485	6.636	109,113	406,365
13. Rubber	62,965		11,870	9,646	4,320	510	
14. Musical instruments	1,244	307	52	14	13		1,630
15. Miscellaneous products	45,633	42,613	1,158	3,681	1,671	230	94,986
Total, classes 1 to 15	2,880,926	1,755,071	634,444	554,029	325,993	314,560	6,465,023
16. Gas works	19,362	26,291	3,070	6,572	1,432	76	56,803
Grand total	2,900,288	1,781,362	637,514	560,601	327,425	314,636	5,521,826

⁽a) Excludes central electric stations, details of which are shown below. (b) Excludes motors driven by electricity generated in factories not classified as central electric stations.

Capacity of engines and generators installed in central electric stations, by type

Particulars of the type and the capacity of engines and generators installed in central electric stations in Australia in 1963-64 are given in the following table.

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, BY TYPE AUSTRALIA, 1963-64

		Capacity of engines and generators									
Equipment	Ste	am	am Intern		stion						
	Recipro- cating	Turbine	Gas	Petrol or other light oils	Heavy oils	Water	Total				
Engines installed rated H.	P. 1,150	7,662,423	10,133	44,349	277,150	2,843,695	10,838,900				
Generators installed— Kilowatt capacity— Total installed k Effective capacity ,	700	5,708,472 5,513,231		30,059 25,641		2,049,810 2,014,301					
Horse-power equivalent— Total installed H. Effective capacity ,	029	7,652,092 7,390,376	9,430 6,145				10,701,291 10,358,162				

Details of the capacity of engines and generators installed in central electric stations in each State are given in the next table.

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT STATES, 1963-64

Equipment			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Central electric stations		No.	50	29	52	29	94	15	269
Engines installed .	. rate	і Н.Р.	4,726,267	2,213,474	1,380,746	895,731	544,648	1,078,034	10,838,900
Generators installed— Kilowatt capacity— Total installed . Effective capacity		kW	3,495,053 3,418,063	1,660,828 1.640,697		668,907 657,858	382,417 376,040		
Horse-power equivalent Total installed . Effective capacity	•	н.р.	4,685,049 4,581,845	2,226,307 2,199,321	1,351,182 1,165,395	896,656 881,845			10,701,291 10,358,162

Value of production, materials used, salaries and wages

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 1963-64 was \$12,641 million, of which \$6,933 million was the value of the materials used, including containers, etc., tools replaced, and repairs to plant and buildings, and \$437 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, \$5,271 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 p. 114). 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 of industry. The amounts of salaries and wages paid in the various classes of industry in each State are shown in the following table.

FACTORIES: SALARIES AND WAGES PAID, BY CLASS OF INDUSTRY STATES, 1963-64 (\$'000)

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non-							
metalliferous mine and quarry products	25,380	19,378	5,729	5,637	3,966	1.941	62.031
2. Bricks, pottery, glass, etc.	30,094	17,803	3,655	5,221	3,460	810	61,043
3. Chemicals, dyes, explosives,		, i					1
paints, oils, grease .	61,333	43,892	3,854	8,044	6,824	2,680	126,627
4. Industrial metals, machines,	570.057	400 464	02.017	147.00	40.44	05.510	
conveyances 5. Precious metals, jewellery,	578,057	409,154	83,917	147,695	49,141	25,513	1,293,477
plate	4,225	4,242	551	886	310	66	10,280
6. Textiles and textile goods	7,223	7,272	331	500	310		10,200
(not dress)	39,465	79,140	3,458	4,757	1,468	6,156	134,444
7. Skins and leather (not				1	1		
clothing or footwear)	10,470	7,889	2,390	2,454	1,128	100	24,431
8. Clothing (except knitted) .	66.792 87,378	75,232 86,952	9,405 60,150	7,197 22,098	3,369 15,065	975 10,174	162,970 281,817
 Food, drink and tobacco. Sawmills, joinery, boxes, etc. 	07,370	60,932	00,130	22,090	13,003	10,174	201,017
wood turning and carving .	40,032	30,716	16,893	10,366	10,267	7,660	115,934
11. Furniture of wood, bedding,	10,032	50,710	10,050	70,000	10,20	7,000	1
etc,	17,720	12,489	4,927	3,943	2,212	839	42,130
12. Paper, stationery, printing,							l
bookbinding, etc	78,249	65,204	13,967	11,095	6,412	12,096	187,023
13. Rubber	19,720	20,262 403	3,778 41	3,227 56	767 53	249	48,003 1,606
14. Musical instruments15. Miscellaneous products	1,053 26,931	25,655	1,201	2,403	1.039	183	57,412
15. Wiscenaneous products .	20,931	23,033	1,201	2,403	1,037	105	37,712
Total, classes 1 to 15 .	1,086,899	898,411	213,916	235,079	105,481	69,442	2,609,228
16. Heat, light and power .	14,122	14,013	4,846	5,237	3,034	1,140	42,392
Grand total	1,101,021	912,424	218,762	240,316	108,515	70,582	2,651,620

Totals and averages. The following table shows the total amount of salaries and wages paid, and the average amount paid per employee in each State. 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, a large number of hands are employed in Class 8., Clothing, comprising a relatively high percentage of women and children.

FACTORIES: TOTAL AND AVERAGE SALARIES AND WAGES PAID, STATES
1959-60 TO 1963-64

Yea	ır		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Total amount (\$'000)— 1959-60 1960-61 1961-62 1962-63 1963-64	paid	:	922.288 980,032 976,138 1,027,216 1,101,021	741.034 776,000 770,378 838,800 912,424	178,734 184,318 186,692 195,832 218,762	190,476 197,966 199,062 220,066 240,316	83,286 90,254 92,840 99,880 108,515	57,572 60,660 61,440 64,838 70,582	2,173,390 2,289,230 2,286,550 2,446,632 2,651,620
Average per (\$)— 1959-60 1960-61 1961-62 1962-63 1963-64	emplo		2.042.06 2,144.30 2,184.76 2.228.48 2,322.72	2,011.26 2,070.28 2,107.30 2,178.46 2,278.33	1,792.18 1,854.40 1,927.68 1,952.82 2,063.50	1,991.92 2,056.66 2,095.12 2,175.40 2,250.91	1,780.86 1.884.08 1,925.14 1,975.24 2,056.55	2,008.54 2,082.14 2,114.58 2,184.92 2,289.28	1,992.34 2,072.54 2,114.22 2,169.64 2,264.65

The following table shows the total and average salaries and wages paid to males and females.

FACTORIES: TOTAL AND AVERAGE SALARIES AND WAGES PAID— MALES AND FEMALES, STATES, 1959–60 TO 1963–64

Year	N.S.W.	Vic.	QId	S.A.	W.A.	Tas.	Aust.
			MALES				·
Total amount paid (\$'000)— 1959-60 1960-61 1961-62 1962-63 1963-64	. 774,332 . 825,120 . 823,670 . 864,504 . 927,807	606,028 637,230 631,282 685,514 747,177	160,690 165,338 167,526 175,488 196,484	170,666 177,244 178,770 197,820 215,127	76,552 82,950 85,406 91,916 99,978	51,236 53,904 54,496 57,836 63,007	1,839,504 1,941,786 1,941,150 2,073,078 2,249,580
Average per male employee (\$)— 1959-60 1960-61 1961-62 1962-63 1963-64	. 2,291.30 . 2,408 40 . 2,444 90 . 2,499 42 . 2,618.05	2,291.28 2,366.92 2,396.72 2,491.20 2,621.00	1,943.90 2,012.76 2,093.00 2,126.94 2,254.33	2.176.42 2.250.42 2,280.66 2,376.84 2,456.73	1,901.70 2,010.12 2.052.76 2,109.30 2,200.83	2,182.84 2,261.78 2,293.02 2,367.00 2,491.24	2,223.60 2,317.64 2,355.60 2,425.18 2,542.17
			FEMALES				
Total amount paid (\$'000)— 1959-60 1960-61 1961-62 1962-63 1963-64	. 147,956 . 154,912 . 152,468 . 162,712 . 173,214	135,006 138,770 139,096 153,286 165,247	18,044 18,980 19,166 20,344 22,278	19,810 20,722 20,292 22,246 25,189	6,734 7,304 7,434 7,964 8,537	6,336 6,756 6,944 7,002 7,575	333.886 347,444 345,400 373,554 402,040
Average per female employee (\$)— 1959-60 . 1960-61 . 1961-62 . 1962-63 . 1963-64 .	. 1,301.64 . 1,353.66 . 1,387.30 . 1,414.04 . 1,447.87	1,298.76 1,314.08 1,360.94 1,395.16 1,431.88	1,057.30 1,100 26 1,140 36 1,145 24 1,181.78	1,151.16 1,184.36 1,220.58 1,240.48 1,312.08	1,033.90 1,100 50 1,122.96 1,141 10 1,163.40	1,220.50 1,274.52 1,312 92 1,335 98 1,367.14	1,266.50 1,302.62 1,341.62 1,369.06 1,405.89

The following table shows, by class of industry, the amounts paid to managerial and clerical staff, including salaried managers and working directors, chemists, draftsmen 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, 1963-64

Class of industry	staff, ch	s, clerical nemists, nen, etc.	All other employees		
	Males	Females	Males	Females	
1. Treatment of non-metalliferous mine and quarry	\$'000	\$,000	\$.000	\$.000	
products	9.636	1.625	50,479	291	
2. Bricks, pottery, glass, etc.	6,219	1.426	51.345	2.054	
3. Chemicals, dyes, explosives, paints, oils, grease	32,857	7.332	77.241	9,197	
4. Industrial metals, machines, conveyances	209,331	41,226	986,162	56,758	
5. Precious metals, jewellery, plate	1,291	451	7,529	1,008	
6. Textiles and textile goods (not dress)	14,033	5,544	60,749	54.118	
7. Skins and leather (not clothing or footwear)	2.933	669	16,753	4,076	
8. Clothing (except knitted)	12,936	6.701	47,196	96,137	
9. Food, drink and tobacco	42,857	12,898	186,128	39,934	
10. Sawmills, joinery, boxes, etc., wood turning and					
carving	13.741	2,942	97,578	1,673	
11. Furniture of wood, bedding, etc	4,863	1,798	30,754	4,715	
12. Paper, stationery, printing, bookbinding, etc.	27,879	8,649	130,355	20,140	
13. Rubber	7,344	1,609	34,488	4,562	
14. Musical instruments	206	49	1,134	217	
15. Miscellaneous products	9,422	2,989	33,948	11,053	
Total, classes 1 to 15	395,548	95,908	1,811,839	305,9 33	
16. Heat, light and power	4,623	147	37,570	52	
Grand total	400,171	96,055	1,849,409	305,985	
Average paid per employee	\$ 3,472.05	\$ 1,551.42	\$ 2,402.92	\$ 1,365.68	

Power, fuel and light used

By class of industry. The expenditure by factories on power, fuel and light, including the value of lubricants and water, is shown in the following table for each State.

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a) BY CLASS OF INDUSTRY, STATES, 1963-64 (\$'000)

	,	(00					
Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust,
1. Treatment of non-							
metalliferous mine and	1	- 400	2 222				
quarry products	11,339	6,100	2,292	2,364	1,220	931 349	24,246
2. Bricks, pottery, glass, etc	9,192	5,904	1,301	1,658	1,358	349	19,762
3. Chemicals, dyes, explosives, paints, oils, grease	19,913	15,169	621	3,324	5,190	1,283	45,500
4. Industrial metals, machines,	19,513	13,107	021	3,324	3,170	1,203	43,300
conveyances	103,153	25,828	6,532	11,921	3,764	7,645	158,843
5. Precious metals, jewellery,	100,100		3,000	,	5,.5.	.,0.0	150,015
plate	340	347	39	95	25	4	850
6. Textiles and textile goods		1	-				
(not dress)	3,572	5,935	200	460	109	564	10,840
7. Skins and leather (not							-
clothing or footwear) .	895	878	210	294	139	12	2,428
8. Clothing (except knitted) .	2,168	2,093	402	316	167	81	5,227
9. Food, drink and tobacco .	13,875	13,639	7,257	3,027	2,448	1,331	41,577
10. Sawmills, joinery, boxes, etc.	2 102	1 073	1 262	687	671	780	0.554
wood turning and carving	3,182	1,872	1,362	087	6/1	780	8,554
11. Furniture of wood, bedding, etc.	493	302	115	109	55	22	1,096
12. Paper, stationery, printing,	723	302	113	103	55	44	1,030
bookbinding, etc.	4,550	5,406	1,003	1,320	277	3,287	15,843
13. Rubber	2,373	2,983	426	379	86	37	6,284
14. Musical instruments .	74	19	1	1	1		96
15. Miscellaneous products .	1,962	2,467	43	131	63	6	4,672
-						1	-
Total, classes 1 to 15 .	177,081	88,942	21,804	26,086	15,573	16,332	345,818
		25.505	45.550	0.00	0.000	!	
16. Heat, light and power	33,076	25,706	15,659	8,686	8,176	32	91,335
Grand total	210,157	114,648	37,463	34,772	23,749	16,364	437,153

(a) Includes value of lubricants and water.

Value of items. The following table shows the value of the various items of power, fuel and light used in factories in each State.

FACTORIES: VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED(a) STATES, 1963-64 (\$'000)

Item of power, fuel,	etc.		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Coal, black			37,859	3,338	19,305	(b) 7,193	5,172	1,368	74,235
"brown				14,736		1			14,736
Brown coal briquettes			٠ ا	12,543		l l			12,543
Coke			39,395	1,499	867	4,570	359	645	47.335
Wood			777	820	613	747	745	158	3.860
Fuel oil			23,426	22,662	3,642	7,320	9,060	3,251	69,361
Tar (fuel)	:		2,770	196	36	203	18	26	3.249
Electricity	•	` 1	64,201	45,455	10,056	11,212	5,658	9,697	146,279
Gas	•	- : 1	21,250	4,059	504	650	196	73	26.732
Other (charcoal, etc.)	•		8,112	1,505	223	l 906 l	1,238	550	12,534
Water	•	٠, ١	8,808	5,427	1,267	1.295	747	403	17,947
	•	٠ ا	3,558	2,409	950	676	556	193	8.342
Lubricating oils .	•	•	2,220	2,409	950	6/6	220	193	0,342
Total		. }	210,157	114,648	37,463	34,772	23,749	16,364	437,153

⁽a) Includes value of lubricants and water. (b) In bituminous Leigh Creek coal.

Quantity of fuel used. The following table shows the quantity of fuel used in factories in each State.

FACTORIES: QUANTITIES OF FUEL USED, STATES, 1963-64

Fuel		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Coal, black	. '000 tons	6,976 2,783 184 287,274 183	316 13,461 1,095 60 232 293,639 9	2,109 24 151 29,338 2	(a)1,744 258 273 97,992 15	670 13 226 118,139	145 38 38,858 2	11,960 13,461 1,095 3,157 1,104 865,240 212

⁽a) Includes 1,556,986 tons of Leigh Creek coal.

Total value. The next table shows the total amounts expended on power, fuel and light during the last five years.

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a) STATES, 1959-60 TO 1963-64 (\$'000)

	Year	•	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1959-60 1960-61 1961-62 1962-63 1963-64	:	:	174,216 184,524 187,820 197,510 210,157	94,280 98,430 99,088 103,550 114,648	30,366 31,086 32,130 35,198 37,463	30,186 30,368 30,646 32,072 34,772	20,142 21,232 20,736 21,720 23,749	12,440 12,874 13,140 14,436 16,364	361,630 378,514 383,560 404,486 437,153

⁽a) Includes value of lubricants and water,

Value of materials used

By class of industry. The value of materials used (which includes the value of containers, packing, etc., the cost of tools replaced, and repairs to plant) in factories in Australia in 1963-64 reached \$6,933 million, or 54.8 per cent of the value of the final output (see page 114). The following table shows the value of the materials used in various classes of industry in each State.

⁽b) Includes \$5,196,458, the value of 1,556,986 tons of sub-

FACTORIES: VALUE OF MATERIALS USED, BY CLASS OF INDUSTRY STATES, 1963-64

(\$'000)

	Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatm	ent of non-metalliferous mine							1
and qu	arry products	. 98,998						
	pottery, glass, etc	. 30,596	17,243	2,824	6,312	2,086	479	59,540
	cals, dyes, explosives, paints	,]
oils, gr		326,089	253,005	23,134	41,064	75,509	6,465	725,266
	rial metals, machines, convey-		1			05	*3 =	l
ances		. [1,332,849						2,713,242
	is metals, jewellery, plate	5,300			863	194	34	
	s and textile goods (not dress		211,476	9,864	10,914	7,724	17,634	354,614
	and leather (not clothing of				44.604		638	
footwe		31,452			14,691	1,543	637	
	ng (except knitted)	120,842			8,552	4,119		
	drink and tobacco	421,877	473,307	443,432	101,343	76,138	44,730	1,560,847
	lls, joinery, boxes, etc., wood	1 04046		33.044		10.570	17.040	
	and carving	94,845				18,572		
	are of wood, bedding, etc.	. 39,104	26,989	12,260	8,696	5,479	1,754	94,282
	stationery, printing, book			26.177	10.466	10.031	21 400	357.000
binding		150,953				10,031	21,408	
Rubbe		47,319			4,943	1,447	508	
	l instruments	2,503		50	23	18		3,031
15. Miscel	aneous products	44,830	52,664	1,545	4,866	1,725	112	105,742
Total,	classes 1 to 15	2,844,559	2,177,825	807,263	595,505	299,002	171,237	6,895,391
16. Heat, l	ight and power	15,063	10,512	5,661	4,153	1,796	893	38,078
Grand	total	2,859,622	2,188,337	812,924	599,658	300,798	172,130	6,933,469

Total amount. The following table shows the total value of materials used in factories for the last five years.

FACTORIES: VALUE OF MATERIALS USED, STATES, 1959-60 TO 1963-64 (\$'000)

	Year			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1959–60 1960–61 1961–62 1962–63 1963–64	:	:	:	2,412,510 2,472,968 2,447,332 2,629,648 2,859,622	1,772,750 1,815,548 1,834,742 2,001,332 2,188,337	582,776 611,354 610,006 713,728 812,924	415,272 432,764 425,122 502,860 599,658	238,276 266,646 270,170 279,756 300,798	135,218 138,136 142,534 156,076 172,130	5,556,802 5,737,416 5 729,906 6,283,400 6,933,469

Value of output

By classes of industry. The value of the output of factories in the various classes in each State in 1963-64 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 p. 114).

FACTORIES:	VALUE	OF	OUTPUT,	BY	CLASS	OF	INDUSTRY,	STATES,	1963-64
				(\$	'000)				

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non-metalliferous							
mine and quarry products	167,645	100,887	31,657	35,734	20,188	10,584	366,695
2. Bricks, pottery, glass, etc	93,777	56,654	11,538	18,620	10,181	2,261	193,031
Chemicals, dyes, explosives, paints,				J			
oils, grease	563,765	421,160	36,952	70,808	113,829	14,896	1,221,410
4. Industrial metals, machines, con-	2,455,895	1 275 600	359,600	570,409	173,906	110,657	5,046,075
veyances 5. Precious metals, jewellery, plate	13,351				934	110,637	
6. Textiles and textile goods (not dress)	181,114				10,292	28,698	
7. Skins and leather (not clothing or	101,	200,011	10,020	15,012	10,2,2	20,000	010,010
footwear)	49,212	35,770	11,124	18,580	3,545	806	119,037
8. Clothing (except knitted)	242,106				10,044		
9. Food, drink and tobacco	671,974	703,267	594,577	151,229	113,316	68,550	2,302,913
10. Sawmills, joinery, boxes, etc., wood	100 534	121 205	63.004	46 007	22.21	22 204	470 760
turning and carving	169,534				37,714	32.304	
12. Paper, stationery, printing, book-	71,344	49,826	21,151	15,957	9,768	3,243	171,207
binding, etc.	316,836	276,944	53,258	41,495	23,664	50,412	762,609
13. Rubber	80,276				3,214	1,181	
14. Musical instruments	6,613				95		8,028
15. Miscellaneous products	97,724	105,127	3,718	10,421	3,701	393	221,084
Total, classes 1 to 15	5,181,166	3,957,934	1,249,739	1,034,440	534,391	326,936	12,284,606
16. Heat, light and power	156,529	95,530	42,521	27,346	20,667	14,129	356,722
Grand total	5,337,695	4,053,464	1,292,260	1,061,786	555,058	341,065	12,641,328

Total value. The following table shows the value of output in each State during the last five years.

FACTORIES: VALUE OF OUTPUT, STATES, 1959-60 TO 1963-64 (\$'000)

	Year			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1959-60 1960-61 1961-62 1962-63 1963-64	:	:	:	4,419,618 4,590,250 4,566,766 4,902,044 5,337,695	3,251,366 3,331,524 3,374,472 3,706,624 4,053,464	937,926 983,696 992,734 1,129,892 1,292,260	771,404 803,256 803,594 914,074 1,061,786	431,166 481,138 486,988 517,898 555,058	268,050 275,902 283,548 312,544 341,065	10,079,530 10,465,766 10,508,102 11,483,076 12,641,328

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 fuel used' from the 'value of output'. The value of factory production, therefore, approximates 'net value added' in the manufacturing process.

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 for the various classes of industry.

FACTORIES: VALUE OF PRODUCTION, BY CLASS OF INDUSTRY, STATES 1963-64 (\$'000)

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non-metalliferous mine							
and quarry products	57,308		14,991	16,765	10,228		
2. Bricks, pottery, glass, etc	53,989	33,507	7,413	10,650	6,737	1,433	113,729
3. Chemicals, dyes, explosives, paints,	1		_ 1				1
oils, grease	217,763	152,986	13,197	26,420	33,130	7,148	450,644
4. Industrial metals, machines, convey-			450.00			40.004	
ances	1,019,893		138,806		84,465		2,173,990
5. Precious metals, jewellery, plate	7,711	7,574	931	1,690	715	132	
6. Textiles and textile goods (not dress)	80,540	143,463	5,961	8,438	2,459	10,500	251,361
7. Skins and leather (not clothing or				2 -0 -			40.00
footwear)	16,865	13,763	4,725	3,595	1,863	157	
6. Clothing (except knitted)	119,096		15,968	11,749	5,758	1,826	
P. Food drink and tobacco	236,222	216,321	143,888	46,859	34,730	22,469	700,489
9. Sawmills, joinery, boxes, etc., wood		63.061	30.670	***	10 471	12 602	200.000
turning and carving	71,507		29,678	19,079	18,471	13,582	
Furniture of wood, bedding, etc.	31,747	22,535	8,776	7,152	4,234	1,467	75,91
2. Paper, stationery, printing, book-	161 222	121 545	34.070	21 700	12.255	25 710	270 776
binding, etc	161,333		26,078	21,709	13,355		
Rubber	30,584		8,038	6,647	1.681	636	
Musical instruments	4,036	607	92	90	76		4,901
5. Miscellaneous products	50,932	49,996	2,130	5,424	1,913	275	110,670
Total, classes 1 to 15	2,159,526	1,691,167	420,672	412,849	219,816	139,367	5,043,397
6. Heat, light and power	108,390	59,312	21,201	14,507	10,695	13,204	227,309
	2,267,916	1.750,479	441.873	427,356	230,511	152,571	5.270.70

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.

FACTORIES: VALUE OF PRODUCTION, STATES, 1959-60 TO 1963-64

Year		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Total value (\$'000)—	1,832,892	1,384,336	324,784	325,946	172,748	120,392	4,161,098
1960-61	:	1,932,758	1,417,546	341,256	340,124	193,260	124,892	4,349,836
1961-62		1,931,614	1,440,642	350,595	347,828	196,083	127,874	4,394,636
1962-63		2,074,886	1,601,742	380,966	379,142	216,422	142,032	4,795,190
1963-64	•	2,267,916	1,750,479	441,873	427,356	230,511	152,571	5,270,706
Average per perso employed (\$)- 1959-60.	_	3.924	3,626	3,102	3,292	3,480	4,058	3,676
1960-61	:	4,094	3,652	3,266	3,402	3,814	4,142	3,798
1961-62		4,189	3,880	3,449	3,510	3,842	4,252	3,920
1962–63	:	4,366	4,026	3,628	3,602	4,050	4,618	4,108
1963–64		4,650	4,237	3,992	3,857	4,138	4,793	4,356
Average per head population (\$						1		
1959–60	•	483.28	490.96	224.28	349.14	238.24	346.60	412.42
1960–61		498 86	489.92	226 94	355 36	264.82	356 76	421 98
1961-62	:	489.22	486 84	229 60	354.89	262 91	358 51	417.86
1962-63		516.72	530 06	245 58	379.54	283 12	392 24	447.56
1963-64		554.98	566.32	280.84	415.27	294.69	416.65	482.69

Value of land, buildings, plant and machinery

The following table shows the value of land and buildings and of plant and machinery used in each State in connection with manufacturing industries.

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1963-64 (\$'000)

Value of		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Land and buildings Plant and machinery	:	1,453,877 1,504,196	1,020,794 1,040,724	211,520 308,307	230,628 330,281	118,813 155,514	168,403 141,651	3.204,035 3,480,673
Total		2,958,073	2,061,518	519,827	560,909	274,327	310,054	6.684,708

⁽a) At end of year. Includes estimated value of rented premises and plant.

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, by class of industry

The following table shows, by class of industry for Australia, the approximate value of land and buildings occupied in connection with manufacturing industries.

FACTORIES: VALUE OF LAND AND BUILDINGS(a) BY CLASS OF INDUSTRY, AUSTRALIA, 1959-60 TO 1963-64 (\$'000)

1959-60 1960-61 1961-62 1963-64 Class of industry 1962-63 1. Treatment of non-metalliferous mine and quarry products

2. Bricks, pottery, glass, etc.

3. Chemicals, dyes, explosives, paints, oils, 54,660 62,264 52,200 44,650 65,682 72,615 39,232 44,498 63,060 68,470 3. Chemicais, dyes, explosives, panius, ones, grease
4. Industrial metals, machines, conveyances
5. Precious metals, jewellery, plate
6. Textiles and textile goods (not dress)
7. Skins and leather (not clothing or footwear)
8. Clothing (except knitted)
9. Food, drink and tobacco
10. Sawmills, joinery, boxes, etc., wood turning 174,104 912,844 9,032 160,954 191,750 201,028 219,212 1,188,289 191,750 1,013,520 9,968 115,582 20,000 115,928 344,714 1,102,872 10,788 122,954 21,590 126,808 777,320 7,910 11,657 130,425 23,322 135,960 96,758 18,332 95,524 106,626 18,666 107,552 298,682 321,432 370,014 392,089 69,806 32,502 137,994 26,878 1,860 82,176 37,762 170,438 33,750 1,592 85,632 41,082 182,792 37,408 1,594 58,214 and carving

11. Furniture of wood, bedding, etc.

12. Paper, stationery, printing, bookbinding, etc. 80,566 90,956 44,142 198,860 50,595 1,550 35,768 154,996 13. Rubber
14. Musical instruments
15. Miscellaneous products 31,064 1,844 41,440 36,690 52,184 63,440 2,303,828 Total, classes 1 to 15 1.845.092 2,095,092 2,491,518 2.691.582 284,064 294,048 505,812 514,974 512,453 16. Heat, light and power Grand total 2,129,156 2,389,140 2,809,640 3,006,492 3,204,035

(a) At end of year. Includes estimated value of rented premises.

The following table gives particulars for each State by class of industry.

FACTORIES: VALUE OF LAND AND BUILDINGS(a) BY CLASS OF INDUSTRY, STATES, 1963-64 (\$'000)

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non- metalliferous mine and							
quarry products	26,049	28,123	4,628	7,117	5.057	1,641	72,615
2. Bricks, pottery, glass, etc.	34,222	21,952	3,942	4,437	2,887	1,030	68,470
Chemicals, dyes, explosives,			. = 0.4				
paints, oils, grease	112,200	75,812	4,704	9,909	13,575	3,012	219,212
4. Industrial metals, machines, conveyances	543,486	393,476	66,074	112,390	43,918	28,945	1,188,289
5. Precious metals, jewellery,	343,400	333,470	00,074	112,550	45,510	20,543	1,100,20
plate	4,750	4,349	458	1,443	517	140	11,657
6. Textiles and textile goods	44 (02	77.675	0.005	4 9 6 5	1 202	2 516	
(not dress)	41,693	77,675	2,085	4,165	1,292	3,515	130,425
clothing or footwear)	10,603	9.382	935	1,524	800	78	23,322
8. Clothing (except knitted) .	58,528	58,300	7,034	6,534	3,860	1,704	135,960
Food, drink and tobacco .	123,119	138,268	59,177	33,229	21,713	16,583	392,089
10. Sawmills, joinery, boxes,		1					Į.
etc., wood turning and carving	34,752	29,103	9,233	8,479	4.768	4,621	90,956
11. Furniture of wood, bedding,	34,732	29,103	9,233	0,473	4,700	4,021	30,930
etc	18,099	14,104	5,287	3,721	1,943	988	44,142
12. Paper, stationery, printing,	l'	1	'				
bookbinding, etc	88,226	64,062	14,224	13,066	6,298	12,984	198,860
13. Rubber	19,292 942	20,150	5,107 71	3,498 104	1,678 102	870	50,595 1,550
15. Miscellaneous products .	26,438	32,078	988	2,433	1,251	252	63,440
	'	1 1		1	· ·		
Total, classes 1 to 15 .	1,142,399	967,165	183,947	212,049	109,659	76,36 3	2,691,582
16. Heat, light and power .	311,478	53,629	27,573	18,579	9,154	92,040	512,453
Grand total	1,453,877	1,020,794	211,520	230,628	118,813	168,403	3,204,035

Total value. The following table shows the value of land and buildings in each State.

FACTORIES: VALUE OF LAND AND BUILDINGS(a), STATES, 1959-60 TO 1963-64 (\$'000)

	Year			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust,
1959-60 1960-61 1961-62 1962-63 1963-64	:	:	:	881,096 1,003,586 1,286,966 1,379,534 1,453,877	708,922 803,462 889,332 953,736 1,020,794	152,704 168,316 179,264 193,484 211,520	155,264 175,458 196,594 212,964 230,628	87,146 91,220 98,336 102,856 118,813	144,024 147,098 159,148 163,918 168,403	2,129,156 2,389,140 2,809,640 3,006,492 3,204,035

(a) At end of year. Includes estimated value of rented premises.

Value of plant and machinery

By class of industry. The following table shows, by class of industry for Australia, the approximate value of plant and machinery used in factories.

FACTORIES: VALUE OF PLANT AND MACHINERY(a) BY CLASS OF INDUSTRY, AUSTRALIA, 1959-60 TO 1963-64 (\$'000)

Class of industry	195960	196061	1961-62	1962-63	1963-64
1. Treatment of non-metalliferous mine and	i	-		<u> </u>	
quarry products	99,316	136,852	148,862	153,586	155,387
2. Bricks, pottery, glass, etc	32,572	40,152	47,888	63,408	70,476
3. Chemicals, dyes, explosives, paints, oils,	•			.,	,
grease	315,462	325,390	398,422	424,982	459,429
4. Industrial metals, machines, conveyances .	719,158	900,236	1,005,970	1,100,596	1,187,576
Precious metals, jewellery, plate	3,082	3,144	2,896	3,018	3,454
6. Textiles and textile goods (not dress)	85,550	91,498	96,630	104,032	106,160
7. Skins and leather (not clothing or footwear)	8,432	8,982	9,032	9,214	9,472
8. Clothing (except knitted)	34,488	37,318	38,336	43,006	46,489
9. Food, drink and tobacco	294,524	319,200	337,240	362,542	383,922
10. Sawmills, joinery, boxes, etc., wood turning			l		
and carving	61,682	66,528	68,394	68,924	71,548
11. Furniture of wood, bedding, etc	8,738	9,088	9,546	9,964	11,137
12. Paper, stationery, printing, bookbinding, etc.	149,552	173,976	183,724	199,086	209,705
13. Rubber	24,480	25,980	26,148	28,556	36,532
14. Musical instruments	772	708	698	644	603
15. Miscellaneous products	26,910	31,808	35,532	42,278	46,137
Total, classes 1 to 15	1,864,718	2,170,860	2,409,318	2,613,836	2,798,027
16. Heat, light and power	578,490	614,706	642,762	672,626	682,646
Grand total	2,443,208	2,785,566	3,052,080	3,286,462	3,480,673

(a) At end of year. Includes estimated value of rented plant and machinery.

The following table shows the value of plant and machinery used in factories in each State according to class of industry.

FACTORIES: VALUE OF PLANT AND MACHINERY(a) BY CLASS OF INDUSTRY, STATES, 1963-64

(\$'000)

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non-metalliferous mine						_	
and quarry products	74,798		8,272	14,346	4.796		
2. Bricks, pottery, glass, etc.	33,792	23,766	4,416	4,766	3,128	608	70,476
3. Chemicals, dyes, explosives, paints,	017.53	146 056	5 .05	25 572	47.120	6.650	460 400
oils grease	217,537	146,856	5,685	35,572	47,120	6,659	459,429
4. Industrial metals, machines, convey- ances	646,085	282,304	46,053	139,662	33,589	39 882	1,187,576
5. Precious metals, iewellery, plate	1,461	1.350	141	352	118	32	3.454
6. Textiles and textile goods (not dress)	32,379	59,224	2,001	4,656	1,248	6,652	
7. Skins and leather (not clothing or		· 1				•	
footwear)	4,071	3,172	867	982	336	44	9,472
8. Clothing (except knitted)	18,522	20,133	2,848	2,897	1,266	323	
9. Food, drink and tobacco	103,088	123,087	101,674	25,376	16,097	14,600	383,922
10. Sawmills, joinery, boxes, etc., wood	24,612	17,063	10,663	8,324	4,914	5,972	71,548
turning and carving	4,420	3,096	1,516	1,320	558	227	11,137
12. Paper, stationery, printing, book-	7,420	3,070	1,510	1,520	330	227	11,137
binding, etc.	78,918	62.370	20,074	17,948	4,325	26,070	209,705
13. Rubber	14,432	15,849	1,957	2,037	1,977	280	36,532
14. Musical instruments	431	110	6	41	6		603
15. Miscellaneous products	18,386	25,032	547	1,413	699	60	46,137
Total, classes 1 to 15	1,272,932	834,104	206,720	259,692	120,177	104,402	2,798,027
16. Heat, light and power	231,263	206,620	101,587	70,589	35,338	37,249	682,646
Grand total	1,504,195	1,040,724	308,307	330,281	155,514	141,651	3,480,673

⁽a) At end of year. Includes estimated value of rented plant and machinery.

Total value. The following table shows the value of plant and machinery in each State.

FACTORIES: VALUE OF PLANT AND MACHINERY(a), STATES, 1959-60 TO 1963-64 (\$'000)

	Year			N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1959-60 1960-61 1961-62 1962-63 1963-64	:	:	:	1,013,276 1,214,562 1,341,272 1,438,382 1,504,195	757,264 838,422 938,278 1,003,320 1,040,724	240,422 265,138 274,502 280,584 308,307	196,480 226,200 253,006 293,608 330,281	128,450 128,612 123,432 132,636 155,514	107,316 112,632 121,590 137,932 141,651	2,443,208 2,785,566 3,052,080 3,286,462 3,480,673

⁽a) At end of year, Includes estimated value of rented plant and machinery,

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 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, 1963-64 (\$'000)

Class of industry	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
1. Treatment of non-							
metalliferous mine and	8,928	4 244	1,362	1,816	620	296	17.266
quarry products 2. Bricks, pottery, glass, etc.	3,154	4,344 3,000	454	531	346	103	17,366 7,588
3. Chemicals, dyes, explosives,	3,134	3,000	434	1 121	340	103	1,566
paints, oils, grease	24,423	20,999	737	2,860	6,588	1,043	56,650
4. Industrial metals, machines,	24,425	20,555	,,,] -,	0,000	1,013	, ,,,,,,,
conveyances	70,036	37,003	5,063	18,869	3,233	4,009	138,263
5. Precious metals, jewellery,		, ·			· ·	,	1
plate	130	120	14	31	10	2	307
Textiles and textile goods							
(not dress)	4,049	8,350	291	428	129	602	13,849
7. Skins and leather (not	400	222	105	120	40		1000
clothing or footwear)	423	322	125 273	136 196	48 127	4 74	1,058
8. Clothing (except knitted)	1,681 12,514	1,824 13,810	10,251	2,974	2,371	1,690	4,175 43,610
9. Food, drink and tobacco . 10. Sawmills, joinery, boxes, etc.	12,314	13,810	10,231	2,9/4	2,3/1	1,050	43,010
wood turning and carving .	2,791	1,695	1,407	798	538	897	8,126
11. Furniture of wood, bedding,	2,751	1,055	1,407	750	330	0,7	0.120
etc	511	324	170	115	72	21	1,213
12. Paper, stationery, printing,			• • •		!		-,=
bookbinding, etc	8,466	9,439	2,275	1,626	676	3,320	25,802
13. Rubber	1,755	2,993	375	470	234	60	5,887
14. Musical instruments	82	13	1	2	(a)		98
Miscellaneous products .	2,533	3,565	54	180	83	7	6,422
Total, classes 1 to 15 .	141,476	107,801	22,852	31,032	15,125	12,128	330,414
16. Heat, light and power .	22,765	9,762	6,196	2,931	2,893	1,679	46,226
Grand total	164,241	117,563	29,048	33,963	18,018	13,807	376,640

⁽a) Less than \$500.

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

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

FACTORIES: VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY
AUSTRALIA, 1959-60 TO 1963-64
(\$'000)

	Yea	_			ne(a)		and replace- ing year(a)		on allowed g year
	1 ea	r		Land and buildings	Plant and machinery	Land and buildings	Plant and machinery	Land and buildings	Plant and machinery
1959-60		•		2,129,156	2,443,208	203,942	462,324	26,606	216,972
1960-61				2,389,140	2,785,566	180,036	488,096	33,804	250,538
1961-62				2,809,640	3,052,080	359,728	561,186	36,892	279,860
1962-63				3,006,492	3,286,462	191,470	565,994	38,797	304,152
1963-64	•	•	٠	3,204,035	3,480,673	192,419	564,958	39,711	336,929

⁽a) Includes estimated value of rented premises, plant and machinery.

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 (see page 91).

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*.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA, 1961-62 TO 1964-65

Article	1961–62	1962–63	1963-64	1964–65 (a) (b)
	}	1	1	1
Abrasive cleansers and/or scourers—				50.00
Household cwt	55,805	57,797	51,593	50,860
Industrial , ,	5,482	3,772	4,302	4,143
Acid—	1			1
Hydrochloric tons	3 779	4,295	4,304	4,786
Nitric , , , , , , , , , , , , , , , , , , ,	17,885	19,836	19,782	24,810
Sulphuric	1,136	1,256	1,447	1,613
Aerated and carbonated waters '000 gals	83,224	87,365	93,304	97,373
Air conditioning equipment-		i .	1	1 .
Room air conditioners (refrigerated) no.	11,151	5,918	4,511	5,134
Room air coolers (evaporative coolers) ,,	15,231	3,620	1,896	3,015
Package unit air conditioners ,,	2,313	1,835	1,830	2,302
Asbestos cement building sheets '000 sq. yds	26,795	27,743	29,778	33,048
	1	1 '	1	1
Bacon and ham (cured weight) '000 lb.	77,743	73,507	74,684	95,561
Bags, leather, fibre, etc.—		1		1 '
Handbags—	!	1	}	1
Leather no.	643,991	534,486	509,569	1
Plastic	1,752	2,109	2,065	
Other no.	158,133	250,858	278,359	ł
Hessian and calico bags '000 doz.	2,488	2,846	3,000	1
Suitcases, kitbags and trunks	1,218	1,420	1,567	į.
All other(c)	2,085	2,108	2,037	
Baking powder	761,969	754,159	780,053	J
Bath heaters—	101,505	134,133	760,055	Ī
Electric no.	14 020	11,783	14,498	14,079
Con	14,828		11,943	11,396
0-046-4	18,006	14,143	17,543	15,132
	20,987	19,967	17,606	
Bathing suits doz.	191,698	209,753	205,945	240,064
Baths—				05.050
C.I.P.E no.	78,351	76,034	77,868	85,676
Pressed steel, enamel ,,	30,893	32,099	48,789	64,293
Batteries, wet cell type—			1	
Auto (S.L.I.) 6 volts no.	555,334	599,751	579,014	502,136
12 volts	887,512	1,115,569	1,191,782	1,247,258
Radio, homelighter, fencer no. of 2 Volt cells	185,884	192,146	190,608	162,646
Traction ,,	36,646	40,623	39,540	42,865
Berrachon	241,636	249,454	262,343	(d)283,357
Siscuits	179,959	185,245	197,970	208,321
Blankets	1,689	1,845	2,176	2,084
Boots and shoes (see Footwear)	•	1	l '	· ·
Bran (wheaten) tons (2,000 lb.)	236,272	225,185	252,746	228,098
Brandy '000 proof gals	1,178	1,129	1,220	1 1
Brassieres doz.	571,465	609,575	681,846	674,535
Bread (2 lb. loaf equivalent)	759,010	762,673	779,458	
Breakfast food, cereal (ready to eat) cwt	796,565	812,725	833,726	870,024
Bricks, clay	992,410	1,058,675	1,237,843	1,344,401
Brooms gross	23,411	21,867	21,584	2,0 , 2
Brushes(e)	95,446	96,791	95,091	
Butter(f) tons	197,256	201,234	202,809	203,465
succession	177,230	201,234	202,607	203,403
Candles cwt	8,020	9,159	9,847	1
Cardigans, sweaters, etc doz.		1 261 126	1,347,503	1,374,585
Casein	1,136,229	1,261,126		39,612
	30,356	36,236	37,360	50,012
Na	47,539	56,481	64,230	69,198
Cement, portland	2,782,785	2,942,045	3,320,139	3,741,056
Cheese (green weight) , ,	55,380	58,539	58,217	(g) 61,389
Chlorine	27,787	36,803	43,488	47,916
hutney	2,052	1,414	1,319	40.5:-
Cigarettes and cigars	42,899	45,346	46,040	49,649
Cloth (including mixtures)—				
	45,629	47,093	53,354	56,205
Cotton(h)		28,227	23,714	24,628
Wastley and money 4(1)	24,991			,
Woollen and worsted(i) ,, Coke—	24,991			
Woollen and worsted(i) ,, Coke—	24,991		2,915	3,175
Woollen and worsted(i) , , , , , , , , , , , , , , , ,	24,991 2,717	2,759	2,915 693,361	3,175
Woollen and worsted(i) , ,, Coke— Metallurgical '000 tons Other	24,991		2,915 693,361	3,175
Woollen and worsted(i) , ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	24,991 2,717 762,455	2,759 694,575	693,361	,
Woollen and worsted(i) , ,, Coke— Metallurgical '000 tons Other	24,991 2,717	2,759		3,175 95,304 105,909

⁽a) Subject to revision. (b) Blank spaces indicate figures not yet available. (c) Excludes canvas waterbags. (d) As reported by Department of Customs and Excise; includes waste. (e) Excludes tooth brushes and industrial metal and bristle brushes. (f) Includes the butter equivalent of butter oil production, 1964-65 figures as reported by Commonwealth Dairy Produce Equalisation Committee Ltd. and State Departments of Agriculture. (g) As reported by the Commonwealth Dairy Produce Equalisation Committee Ltd. and by producers not within the Equalisation Scheme. (h) Excludes towelling and tyre-cord fabric. (f) Excludes blanketing.

PRINCIPAL FACTORY PRODUCTS

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA, 1961-62 TO 1964-65—continued

	Article			1961-62	1962–63	1963–64	1964–65 (a)(b)
Copper, refined(c)			tons	63,769	85,652	90,890	56,112
Coppers-							
Électric			no.	13,188	10,385	10,412	
Gas			,,	14,405	10,959	8,255	İ
Inserts (all types) .			. ,,	19,008	15,356	19,540	
Cordials and syrups		•	'000 gals	5,415	6,259	6,887	7,346
			. doz.	227,555	274,353	303,538	341,717
Corsets and corselets .			. '000 lb.	237,555 5,768	214,333	303,336	341,717
Custard powder				3,708	6,493	6,315	(5.500
Cycles, assembled			no.	55,065	59,168	62,326	67,570
Designation (see also as a			1000 11	0.00	8,443	0 000	
Dentifrices (toothpaste) .			. '00 0 lb.	8,687	8,443	8,800	
Dynamos—							
Alternators			no.	687	1,022	1,011	
Generators			no.	3,915	3,396	1,339	
					l		
Electricity			mill. kWh	26,275	29,279	32,519	35,390
Engines, internal combustic	n(d) .		'000	206	271	290	288
Essences, flavouring-							
Domestic			. gals	131,281	114,239	127,915	
Industrial			,,	480,951	530,649	585,015	!
		•	,,	100,551	550,000		1
Face powder			1b.	255,189	247,916	282,122	1
Fans, electric		•	, . no.	183,819	146,193	156 844	204,126
Fata adible (other than an		•				156,844 21,730	23,991
Fats, edible (other than ma	rgarine).	•	tons	n.a.	n.a. 12,240	12,730	23,791
Felt(e)			' 00 0 sq. yds	11,373	12,240	13,122	C0 C00
Fence posts and droppers			tons	37,397	53,932	66,794	68,698
Fibrous plaster sheets .			000 sq. yds	15,332	15,932	15,922	14,298
Fish, canned (including fish	loaf) .		. '000 lb.	12,040	10,327	11,267	11,095
Floorboards—							
Australian timber .			'000 super. ft.	135,125	139,284	146,632	1
Imported timber			,,	733	776	665	
Floor coverings-			•			!	
Soft			'000 sq. yds	7,067	8.801	10,297	11.579
Smooth surface		•		6,445	7,566	8,192	11,859
Flour-		•	. "	0,	',,,,,	٠,.,-	,
Self-raising			cwt	1,024,098	998,192	967,077	
Wheaten(f)		חחחי	tons (2,000 lb.)	1,486	1,465	1,672	1,550
Footwear (not rubber)-		000	10113 (2,000 10.)	1,400	1,,,,,,	1,0,2	1 .,550
Boots, shoes and sandals			'000 pairs	25,215	26.687	28,241	27,898
		•	ooo pans	9,860	10,671	11,388	11,775
Slippers Fruit juices, natural .		•	. '000 gals		7,710	8,732	11,773
riuit juices, naturar .		•	. 000 gais	6,755	7,710	0,732	
Gas (town)			mill. cubic ft.	50,247	51,351	53,209	53,023
Gloves—		•	min. edoic it.	30,247	31,331	33,209	33,023
Dress			4:	27 600	27,580	28,058	28,301
Week Same(a)		•	doz. pairs	27,688		379,069	
Work—Sewn(g)		•	**	292,507	336,875	3/9,009	406,182
Dipped			,,	570,779	760,149	1,100,185	1,194,545
Golf clubs		•	doz.	36,173	29,598	29,800	28,275
YY 171-1-C-				l			Ì
Handkerchiefs-			1000				[
Men's			'000 doz.	1,553	1,738 1,355	1,717 1,539	1
Women's .	• •		,,	1,456	1,355	1,539	ľ
Hats and caps (excluding b	erets)(h).		doz.	565,633	553,749	518,032	1
Hose, Rubber, Garden .			'000 lin. ft.	2,152	2,543	2,897	
Other .			**	10,644	14,858	17,508	1
Plastic, garden .		•	,,	36,296	36,118	37,268	
Hot water systems—	•	•	• • • • • • • • • • • • • • • • • • • •	00,200		,	i
Storage-electric, gas, so	lid fuel(i)		no.	103,758	119.585	146,042	173,169
Non-storage—electric(i)	ila raci(i)	•		15,184	119,585 15,273	15,437	14,616
rion storage electric())		•	,,	15,104	15,2	10,101	1 1,010
Ice			tone	252,669	238,924	221,182	
Ice cream			tons	19,221	20,661	22,403	24,658
		•	. ooo gais		1,341	973	786
Ice cream mix powder .			. '000 lb.	1,360	20 14	44,105	45,505
Infants' and invalids' milk-l	naseu near	ui beve	IARCE(K)	38,137	10,400		43,303
Ink, printing, News .			. '°000 іь.	11,611 12,206	38,465 12,397 12,735	14,673	I
Other .			. ,,	12,206	12,735	14,013	I
Iron and steel-			1000				1
Pig iron			*000 tons	3,380	3,400	3,772	4,033
Steel ingots			. ,,	4,076	4,260	4,764	5,121
Blooms and slabs .				3.326	3,672	4.076	4,515
Irons, electric (hand, domes	tic) .		no.	305,374	354,636	363,617	428,543
				1			!
	-117	١.	1000 IL	98,313	92,175	90,462	89,811
Jams (including conserves, j	emes, etc.	, .	. '000 1Ь.	70,313		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 0,,011
Jams (including conserves, j Jelly crystals.	emes, etc.	':	. 000 16.	13,656	14,214	13,935	05,011

⁽a) Subject to revision. (b) Blank spaces indicate figures not yet available. (c) Primary origin only. (d) Petrol and diesel. Excludes motor car, motor cycle, truck, tractor, aeroplane and marine engines. (e) Includes underfelt. (f) Includes wheatmeal for baking and sharps. (g) Excludes fabric liners for dipped gloves, but includes moulded or heat sealed gloves. (h) Includes hoods and capelines. (i) Includes heat exchange (coil type) displacement or falling level type and circulating systems. (j) Instantaneous type. (k) Includes malted milk and milk sugar (lactose).

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA, 1961-62 TO 1964-65—continued

Article	1961–62	1962–63	1963-64	1964–65 (a)(b)
Lacquer, clear and colours '000 gal Lard	1,310 5,314	1,443 5,165	1,525 6,934	1,525
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$. 200,712 8,962	217,172 15,158 208,946	199,204 16,486 217,296	200,520 10,796
Lead refined(d) ton: Leather— Dressed, from hides, measurement ''000 sq. ft	1 '	208,946	217,290	199,030
, weight '000 lb , skins '000 sq. ft Harness, skirt, belting, etc. '000 lb Sole '000 sq. ft Upholstery '000 sq. ft	122 15,920 1,205 20,137	}	Collected o	
Dressed or finished—Chrome tanned (including retanned) '000 sq. ft	. h	77,887	84,417	
Vegetable tanned, by weight '000 lb.	11		21,010	
Vegetable tanned, by . measurement '000 sq. ft	on differ- ent basis	3,449	5,423	
Tanned or dressed skins with hair or wool retained Lime—Crushed tons	1)	161,129	180,316	
Hydrated	85,126 96,792	76,401 98,545	81,508 110,429	
Lipstick ib Lubricating oil	92,404	86,318 12,242	84,512 14,512	· ·
Malt, barley	10,360	10,536	12,127	11,997
Table	35,262 65,066	35,703 68,030 37,825	35,431 73,047 46,580	50,558 69,058 63,220
Inner spring	635,298 402,651	644,510 403.860	689.114	724,337 530,008
Other	266,163 117,088	256,462 95,279	454,657 274,390 99,901	282,169 115,266
Electric (domestic) no Gas	50,439	235,753 48,198 131,882	254,884 53,551 127,689	302,532 50,010 127,316
Milk, condensed, concentrated and evaporated— Full cream, sweetened (2)	138,883 63,299 83,860	75,533 97,848	95,744	103,175 97,848
Skim and/or buttermilk ,, Milk powder—	13,168	19,203	83,860 25,712	22,709
Full cream	45,326 84,441 18,918	39,703 94,176 21,831	42,169 92,130 22,139	42,495 105,930 21,027
Mops, floor	17,449	18,024 1,262,767 1,936	14,425 1,358,499 2,223	1,481,734 2,563
Motor vehicles—Cars(g) no. Utilities		1 299 518	322,880 30,003	334,683 } 41,463
Vans	1 10,137	27,852 12,530 353,943	13,643 446,628	
Nails tons Neckties doz.		23,447 524,622	24,987 454,988	26,616
Oatmeal and rolled oa s for porridge cwt	312,225	301,976	298,965	319,783
Paint— Dry colours, synthetic or chemical—				
Zinc oxide	122,847	152,156 197,510 1,294	153,439 203,725	
Ground, natural earths '000 cwt Ready-mixed, liquid and enamels '000 imp. gals. Tinting colours, ground in oil (vegetable or synthetic). gals	13,290	1,294 13,846 66,306	1,496 15,491 65,467	16,144
Other than water, in paste form (heavy-bodied whites, etc.)	1	3,088	3,191	2,862
Water— Emulsion type '000 imp. gals.	2,778	3,077	3,349	3,689
Powder (including kalsomine) . '000 lb. Paper—	2,540	2,226	2,423	2,165
Newsprint	89,758 213,921 206,909	90,245 255,751 240,965	92,039 295,651 258,374	93,142 342,456 285,278

⁽a) Subject to revision. (b) Blank spaces indicate figures not yet available. (c) Petrol cylinder, electric and hand. (d) Includes lead content of lead alloy from primary sources, but excludes lead-silver bullion produced for export. (e) Excludes poultry and baby food. (f) Includes liquid ice-cream mix. (g) Includes station wagons, ectate cars and similar vehicles.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA, 1961-62 TO 1964-65—continued

Perambulators, pushers and strollers no. 145,236 140,449 147,793 7,793	(a)(b) 130 338 135,604 355 276,365 282 299 511.074 377 74,855 7731 434,575 708,446 15,946
Perambulators, pushers and strollers no. 145,236 140,449 147,793 125,263 216,279 228,299 240,863 259,279 259,279 195,263 216,279 216,279 216,279 219,279 219,279 219,279 305,923 349,233 349,233 349,279 <t< th=""><th>338 135,60- 367 455 276,369 289 327,716 289 511.07- 437 149,75: 7070 74,859 731 434,579 708,444 466 15,946</th></t<>	338 135,60- 367 455 276,369 289 327,716 289 511.07- 437 149,75: 7070 74,859 731 434,579 708,444 466 15,946
Pixkles '000 pints 6,038 7,793 7,793 7,793 7,793 7,793 7,793 228,299 240,863 259, 240,863 259, 240,863 259, 250 216, 259, 250 216, 259, 250 216, 259, 250 216, 259, 250 216, 259, 250 216, 259, 250 216, 259, 250 249, 218, 250, 250 216, 259, 250 249, 218, 250, 250 249, 218, 218, 250, 250 249, 218, 250, 2	367 444,575 276,365 282 289 511.074 437 74,855 731 434,575 708,446 15,946
Poliard	327,716 289 511.074 437 149,75: 477 74,859 434,579 940 708,440 466 15,940
Poliard	327,716 289 511.074 437 149,75: 477 74,859 434,579 940 708,440 466 15,940
Preserves— '000 lb. 449,814 431,739 471. Fruit—Canned or bottled '000 lb. 139,778 132,788 79. Vegetables—Canned or bottled '000 lb. 135,328 132,628 144. Quick frozen 47,232 47,834 56. Pyjamas— 47,232 47,834 56. Men's and boys' (suits only) doz. 361,459 406,946 422. Women's and girls' (incl. nightdresses) ., 562,577 635,232 675. Racquet frames (ail types) ., 12,538 15,034 14, Records (phonograph)— . . 3018 3,629 3, Extended play . . 755 898 1.	289 511.074 437 149.75: 477 74,859 731 434,579 940 708,440 466 15.940
Pulp and puree Cwt 139,778 132,788 79, Vegetables—Canned or bottled '000 lb. 135,328 132,628 144, Quick frozen ', 47,832 47,834 56, Pyjamas— Men's and boys' (suits only) doz. 361,459 406,946 422, Women's and girls' (incl. nightdresses) , 562,577 635,232 675, Racquet frames (ail types) , 12,538 15,034 14, Records (phonograph)— Single play (78 and 45 r.p.m.) '000 3,018 3,629 3, Extended play 755 898 1. 1,538 1. 1,538 1. 1,538 1. 1,538 1. 1,538	437 070 477 447,75: 74,859 731 434,579 940 708,440 466 15,940
Vegetables—Canned or bottled '000 lb. 135,328 132,628 144,732 Quick frozen ', 47,834 56,732 Pyjamas— 47,834 56,732 Men's and boys' (suits only) doz. 361,459 406,946 Women's and girls' (incl. nightdresses) ., 562,577 635,232 675,77 Racquet frames (ail types) ., 12,538 15,034 14,72 Records (phonograph)— '000 3,018 3,629 Single play (78 and 45 r.p.m.) '000 3,018 3,629 Extended play 755 898 1.	070 149,75: 477 74,859 731 434,579 940 708,440 466 15,940
Pyjamas— Men's and boys' (suits only) . doz. 361,459 406,946 422, Women's and girls' (incl. nightdresses) . , 562,577 635,232 675, Racquet frames (ail types) . , 12,538 15,034 14, Records (phonograph)— . , 3018 3,629 3, Single play (78 and 45 r.p.m.) . , 000 3,018 3,629 3, Extended play . , 55 898 1.	477 74,859 731 434,579 940 708,440 466 15,940
Pyjamas— Men's and boys' (suits only) . doz. 361,459 406,946 422, Women's and girls' (incl. nightdresses) . , 562,577 635,232 675, Racquet frames (ail types) . , 12,538 15,034 14, Records (phonograph)— . , 3018 3,629 3, Single play (78 and 45 r.p.m.) . , 000 3,018 3,629 3, Extended play . , 55 898 1.	940 708,446 466 15,948
Women's and girls' (incl. nightdresses) . , , 562,577 635,232 675, Racquet frames (ail types) . , , 12,538 15,034 14, Records (phonograph) '000 3,018 3,629 3, Extended play (78 and 45 r.p.m.) '000 755 898 1.	940 708,446 466 15,948
Records (phonograph) Single play (78 and 45 r.p.m.) . '000 3,018 3,629 3, Extended play Extended play 755 898 1.	
Single play (78 and 45 r.p.m.)	100
Extended play	383 4,170
Long play	171 1.47/
Position	U78 4,46U
Refrigerators, domestic . . . no 209,415 206,349 203, Resins, plastic and synthetic .	391 226,85° 975 2,27°
Rice (cleaned)(c)	596
Ropes and cables (excluding wire)	038 137,007 186 201
	791
Semolina tons (2 000 lb.) 11 385 10 065 13	213 16,768
Shirts (men's and boys')	965 2,136 989 13,991
Sink neaters no. 15,195 13,398 12,)89 [13,991
Sinks, stainless steel , 172,380 173,565 193, Soap and detergents—	
Soap—Personal toilet	851 464,031 322 607,984
	322 607.984
Industrial (incl. wool scourings)(d) ,, 92,224 90,383 91, Extracts and powders—	798 95,555
Household 562,196 593,838 524,	375 398,032
Industrial 91,923 94,797 100,	339 105,563
Detergents—Personal toilet	413 31,280 155 468,574
	63,858
Extracts and powders—	
Household , 481,807 485,515 555,	753 604,207
Industrial	151 113,692
Men's and youths' '000 doz. pairs 1.418 1.643 1.1.	28 1,701
Women's and maids'	992 4,432
Children's and infants'	37 1,022
Dry-mix , , , , , , , , , , , , 000 lb, 6,267 7,622 6,3	305
Spades and shovels	790
Starch 92,029 102, Stearine (stearic acid) 9,886 10,050 9.	132 109,688 377 11,538
Stearine (stearic acid) , 9,886 10,050 9. Steel, structural, fabricated , tons 401,201 416,067 452,	706
Stoves, ovens and ranges—	
Domestic cooking— Electric(e) no, 119,494 139,169 166,	311 181,111
C 66 714 65 575 77 1	84 490
Solid fuel 1 28 712 1 27 137 1 28 0	176 I 23.551
Sugar—Raw (94 net titre) '000 tons 1,383 1,850 1,850 Refined tons 553,472 563,765 575,333 Sulabara 1,383 1,850 1,850	724 1 956 575 589,452
Refined tons 553,472 563,765 575, Sulphate of ammonia	188 109.259
Superphosphate (f)	3,703
Talcum powder	382
Tallow unrefined (including dripping)	
Edible , 151,047 165,782 172,	524
Edible . <td< td=""><td>307 235 310,247</td></td<>	307 235 310,247
Tiles, roofing—	
Cement	543 86,584 785 53,535
Terracotta	785 53,533
Timber – From native logs—	
Hardwood , '000 super, ft. 1,063,086 1,088,197 1,157,3	65 2 411 41
Softwood , 289,117 322,370 330,8	$\left.\begin{array}{c c} 1,511,48 \\ 362 \end{array}\right\}$
From imported logs— Hardwood	704 l
Softwood	142
	<u> </u>

⁽a) Subject to revision. (b) Blank spaces indicate figures not yet available. (c) Polished, unpolished or broken. (d) Includes industrial flakes and chips. (e) Includes wall ovens but excludes cooking tops. (f) Source: Department of Primary Industry. Includes ammonium sulphate (in terms of 22 % P₂O₃ content) as from June 1964.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES AUSTRALIA, 1961-62 TO 1964-65—continued

	A	rticle	: 				1961–62	1962-63	1963–64	1964_65 (a) (b)
Toasters, electric (doi	nestic)					. no.	216,923	289,063	305,248	322,839
Tobacco						'000 lb.	13,011	11.553	10,046	9,116
Tomato Juice .				_		, gals	2,354,954	2,353,029	1.130,853	1,302,780
Tomato Juice . Paste and pu Tomato pulp . Towels	ree					'000 pints	12,357	7,709	13,451	1 -7 - 7
Tomato pulp .						. cwt	591,219	449,767	521,614	
Towels	•				•	. doz.	762,400	729,680	826,004	901,583
Tractors	•			-	•	. no.	8,542	10,598	13,879	1
Transformers, chokes	and ba	llasts	··	•	•	. 40.	0,5 12	10,750	15,015	1
For distribution of	nower	and i	Íoht é	tc.		. '000	18,057	18,788	21,592	[
, fluorescent ligh	its and	neon	cione		•		1,766	2,477	2,232	
,, radio receivers	record	nlav	rers et	٠.	•	٠,,	1.085	1.272	1,201	1
, television recei					•	. ,.	1,057	7,272	1,002	1
,, other purposes	VC13	•	•	•	•	. ,,	209,352	302,403	376,652	1
Tubes, pneumatic(c)	•		:	•	•	. no.	2,734	3,144	3,409	(d) 3,605
Tubes, pheumatic(c)	•			•	•				184,356	195,082
Twine (all types) . Tyres, pneumatic(c)	•	:	•	•		. cwt	141,782	157,972	104,330	
Tyres, pneumatic(c)	•	•	•	٠		. 000	4,002	5,013	5,097	(d) 5,517
Umbrellas						. no.	694,128	736,755	867.378	1
Underwear (men's, w	omen's,	chil	dren's)	; ;	:	'000 doz.	5,518	5,858	6,017	6,213
Vacuum cleaners (do	nestic)					. no.	114,189	127,348	140,708	180,715
Wash basins—										
C.I.P.E.						. no.	82,794	77,717	72,744	71.464
Earthenware .	•	:	:	•	•		81,095	97,404	113,905	143,034
Other (metal)	•	•	•	•	•	. ,,	32,687	37.333	45,289	59,370
Washing machines, h	ousehol	ما أه	ectric	•	•	. ,,	220,102	215,844	222,070	263,469
Weatherboards—	ousciioi	u, cr	octi ic	•	•	• ,,	220,102	213,077	,0,0	200, 100
Australian timber					2000	super, ft.	25,146	20,123	21.029	
Imported timber		•	•	•	000	super. it.	1,378	3,093	2,811	
			•	•	tone	(2,000 lb.)	102,285	97.203	125,561	174,037
Wheatmeal(e) Wheelbarrows (metal) Wine beverage—	٠.	•	•	•			85,292	87,642	104,464	1,4,05,
Wine, beverage—	, .	•	•	٠	•	. no.	03,292	07,042	104,404	i
Fortified						'000 gals	11.077	8 761	10.390	
Unfortified.	•	•	•	•	•	ooo gais	6.897	6.091	7.623	
Wireless and televisio	:.:_		•	٠	•	,,	482,887	440.843	439,769	453,633
			<u>;</u>	·		. no.				463,004
Wireless receiving set	(includ	ımg	radiog	ram	s) .	1000 11	367,778	500,861	465,520	157.041
Wool, scoured or car		•	•	•	•	'000 Íb.	168,279	171,808	160,906	
Wool tops		•			•	,,	46,031	48,147	50,939	46,528
Yarn(f)—						1000 11				50.000
Cotton	•	•		•		'000 lb.	43,345	46,126	55,387	59,088
Woollen						,,	23,436	26,860	28,380	30,640
Wool worsted .	•		•	•	•	••	22,519	25,876	23,826	23,798
Zinc oxide (see Paint)).						i	l	Ī	1
Zinc, refined(g)						. tons	153,742	175,850	186,388	189,396
,		-	-	•	-		1,	1,	1,	1 ,

⁽a) Subject to revision. (b) Blank spaces indicate figures not yet available. (c) Excludes bicycle and "other". (d) Source: Department of Supply. (e) Excludes wheatmeal for baking, included with flour; includes wheatmeal for porridge and stock food. (f) Includes mixtures predominantly the fibre mentioned. (g) Primary origin only—includes small quantities of zinc dust.

Individual industries

Particulars on pages 95-119 afford a general view of the magnitude of industries in the sixteen groups adopted by the Conference of Statisticians in 1930. While it is not possible, within the limits of this publication, to give a detailed account of each industry, particular industries dealt with hereunder are of special importance because of the employment which they provide for labour or capital, or for other features of special interest. Details for individual States are available from publications issued by the Deputy Commonwealth Statistician in each State and, for selected industries, in the Central Office series Manufacturing Industries.

PORTLAND CEMENT, ASBESTOS CEMENT SHEETS, ETC., AND OTHER CEMENT GOODS: AUSTRALIA, 1963-64

		Portland cement	Asbestos cement sheets and mouldings	Other cement goods	Total
Number of factories		16	16	637	669
Number of persons employed Salaries and wages paid	\$,000	3,225 8,572	2,994 7,832	8,011 20,646	14,230 37,050
Value of power, fuel, etc., used	\$.000		1,246	1,369	13,689
Value of materials used	\$'000	11,073 17,240	13,434	72.362	103,035
Value of production .	\$.000	29,195	16.517	45,858	91,570
Total value of output	\$,000	57,508	31,197	119,589	208,294
Value of land and buildings	\$'000	11.079	8,636	17,750	37,465
Value of plant and machinery	\$,000	48,687	8,739	19,241	76,667
Horse-power of engines ordinarily in use		107,371	24,960	38,432	170,763

PORTLAND CEMENT, ASBESTOS CEMENT SHEETS, ETC., AND OTHER CEMENT GOODS: AUSTRALIA, 1959–60 TO 1963–64

	1959–60	196061	1961–62	1962-63	1963–64
Number of factories Number of persons employed Salaries and wages paid \$'000 Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Value of plant and machinery Walve-power of engines ordinarily in use h.p.	523 12,054 26,862 11,232 66,788 61,570 139,590 21,228 48,547 132,710	577 12,998 30,245 11,934 80,653 69,812 162,399 27,098 63,368 145,903	600 12,965 30,901 12,105 80,987 71,060 164,152 31,544 70,246 156,025	639 13,577 33,137 12,862 89,225 79,223 181,310 33,692 74,159 161,839	14,230 37,050 13,689 103,035 91,570 208,294 37,465 76,667 170,763

BRICKS, TILES, POTTERY AND EARTHENWARE: AUSTRALIA, 1959-60 TO 1963-64

-	1959–60	1960–61	1961-62	1962-63	1963–64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Value of land and buildings Value of land and machinery Value of plant and machinery Horse-power of engines ordinarily in use Number of persons was provided in the production of the plant and paid in the provided in th	10,624 15,712 52,768 79,104 22,011 23,377	434 15,012 33,326 11,017 16,990 54,489 82,496 25,012 28,752 101,389	427 14,305 31,999 10,730 16,849 52,166 79,745 26,301 33,549 108,491	419 14,496 33,076 11,625 17,797 54,977 84,399 31,474 41,964 118,673	412 15,132 36,416 13,240 21,931 65,622 100,792 35,675 49,165 127,124

GLASS AND GLASS BOTTLES: AUSTRALIA, 1959-60 TO 1963-64

	1959-60	1960-61	1961-62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of production Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use N. D. S. O. O. O. O. O. O. O. O. O. O. O. O. O.	5,797 33,409 35,784 74,990 17,028 9,129	242 9,444 19,984 5,886 32,526 38,477 76,889 19,253 11,329 32,058	248 9,651 21,375 5,394 32,536 40,423 78,353 25,652 14,273 35,969	255 10,510 23,171 5,575 35,922 44,479 85,976 31,354 21,388 40,627	263 10,382 24,230 6,485 37,259 47,454 91,197 32,567 21,256 41,527

INDUSTRIAL AND HEAVY CHEMICALS AND ACIDS (INCLUDING EXPLOSIVES) AUSTRALIA, 1959-60 TO 1963-64

	1959–60	1960–61	1961–62	1962-63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power fuel, etc., used Value of materials used. Value of production Total value of output. Value of land and buildings. Value of plant and machinery. Value of plant and machinery. Value of heart of employed by the plant and plant and heart of the plant and heart of the plant and heart of the plant and machinery. Value of heart and machinery. Value of heart of engines ordinarily in use h.p.	92,426 86,993 189,167 49,315 82,653	297 13,945 34,947 9,304 87,622 82,130 179,056 57,018 89,037 124,629	308 13,746 35,448 12,029 101,172 93,255 206,456 68,118 141,152 165,055	320 14,165 37,567 13,304 117,449 111,600 242,353 68,673 136,126 174,380	325 15,075 42,159 15,626 132,303 126,769 274,698 75,208 151,235 205,235

In order to avoid the publication of confidential information, particulars relating to industrial and heavy chemicals include details for the explosives industry.

PHARMACEUTICAL AND TOILET PREPARATIONS: AUSTRALIA 1959-60 TO 1963-64

			1959-60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	in us	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	216 7,791 14,149 1,619 46,622 57,971 106,212 23,056 10,694 18,084	212 7,805 14,896 1,683 47,259 64,311 113,253 26,862 12,005 19,237	211 7,910 15,728 1,595 51,171 66,258 119,024 29,088 11,465 20,322	209 8,058 16,940 1,850 55,176 63,996 121,022 34,175 12,639 22,772	213 8,173 16,904 1,070 56,454 73,419 130,943 37,474 13,440 21,808

The bulk of the output of the above industry comes from New South Wales and Victoria.

WHITE LEAD, PAINTS AND VARNISH: AUSTRALIA, 1959-60 TO 1963-64

			1959–60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . h.p.	181 5,475 11,420 832 53,785 30,892 85,509 13,884 8,437 25,879	182 5,208 11,492 787 49,847 30,813 81,447 15,472 8,354 27,952	188 5,096 11,338 808 53,525 30,934 85,267 15,491 10,880 28,780	184 5,144 11,659 873 57,463 34,635 92,971 16,800 10,785 29,162	184 5,356 12,845 876 62,494 36,674 100,044 17,888 10,438 32,695

MINERAL OILS, EXTRACTION AND REFINING: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961-62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of output Value of land and buildings. Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	70 4,972 13,028 15,696 266,834 91,225 373,755 36,523 169,909 108,231	76 5,020 14,125 15,073 273,007 88,810 376,890 36,985 173,509 132,640	77 5,028 14,713 15,979 272,714 72,677 361,370 39,034 190,949 145,383	79 5,044 15,490 17,590 287,008 95,572 400,170 40,244 218,387 183,935	82 5,159 17,066 20,906 297,591 97,628 416,125 42,606 232,195 203,325

Victoria, New South Wales, and Western Australia produce most of the refined mineral oil and by-products.

SOAP AND CANDLES: AUSTRALIA, 1959-60 TO 1963-64

	1959-60	1960–61	1961–62	1962-63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used. S'000 Value of materials used. S'000 Value of production. S'000 Total value of output. S'000 Value of land and buildings. Value of plant and machinery. Value of plant and machinery. S'000 Horse-power of engines ordinarily in use.	767 31.670 28.260 60,697 5,304 6,108	119 3,234 7,077 862 32,558 30,419 63,839 5,930 6,440 14,452	117 3,290 7,135 841 32,276 30,005 63,122 5,999 6,881 14,495	117 3.340 7,542 837 32.876 32.754 66.467 5,964 6.437 16,256	122 3.232 7.679 832 34,956 34,610 70.398 6.546 6.824 16,812

New South Wales and Victoria are the major centres of production in the above industry.

CHEMICAL FERTILIZERS: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961-62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	49 4,763 10,737 1,988 52,695 23,041 77,724 15,015 20,514 58,519	44 4,567 10,951 2,003 53,860 24,650 80,513 12,144 17,302 53,194	47 4,525 10,938 1,939 55,436 24,667 82,042 12,561 17,468 55,089	48 4,432 11,016 1,840 59,360 24,917 86,117 12,712 18,761 59,188	48 4,476 11,842 2,022 65,699 26,059 93,780 14,412 20,739 68,689

SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960-61	1961-62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	35 31,825 77,585 60,404 325,354 172,513 558,271 28,835 190,219 690,291	34, 33,804 87,441 67,857 348,553 201,236 617,646 63,320 295,352 757,451	34,504 88,474 67,905 327,557 195,306 590,768 73,943 360,857 778,470	33 35,605 95,090 73,547 368,873 216,504 658,924 78,759 389,806 872,050	37,094 102,042 78,955 390,414 231,902 701,271 83,708 410,432 943,974

The greater part of the output of the above industry comes from New South Wales, with Western Australia, Victoria, and South Australia producing nearly all the remainder.

FOUNDRIES-FERROUS: AUSTRALIA, 1959-60 TO 1963-64

		1959-60(a)	1960–61(<i>a</i>)	1961–62(a)	1962-63(a)	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel. etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	15,808 24,651 42,702 9,732 7,581	245 7,797 17,552 2,229 17,308 25,512 45,049 10,256 7,454 31,471	239 7,183 16,178 2,033 14,796 22,483 39,312 10,079 7,157 31,506	231 7,711 17,940 2,320 17,955 24,972 45,247 10,949 7,460 32,752	230 8,152 19,942 2,482 20,069 29,478 52,029 12,652 8,574 34,581

⁽a) Excludes Tasmania. See Other engineering, page 128.

Tasmanian foundry output is relatively small and details prior to 1963-64 are included in Other engineering.

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS) AUSTRALIA, 1959-60 TO 1963-64

			1959-60(a)	1960–61(a)	1961–62(a)	1962–63(a)	1963-64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used. Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily	in use	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	288,809 276,804	2,587 77,733 173,338 7,578 304,658 287,851 600,087 132,674 86,244 278,138	2.744 77,464 173,588 7,518 296,927 285,483 589,928 148,015 92,355 293,577	2,857 80,758 186,292 8,230 334,716 311,341 654,287 162,815 98,263 303,606	3,027 87,277 212,937 9,102 389 996 357,982 757,080 178,430 105,786 321,550

(a) Includes agricultural machines and implements, Tasmania.

OTHER ENGINEERING(a): AUSTRALIA, 1959-60 TO 1963-64

		1959–60(<i>b</i>)	1960-61(<i>b</i>)	1961-62(b)	1962–63(<i>b</i>)	1963-64
Value of power, fuel, etc., used \$\footnote{S}\text{Value of materials used} \times \footnote{S}\text{Value of production} \times \footnote{S}\text{Value of production} \times \footnote{S}\text{Value of land and buildings} \times \footnote{S}\text{Value of plant and machinery} \times \	000 000 000 000 000 000 000 000	2,310 25,780 51,715 2,036 62,220 84,527 148,783 38,467 27,565 89,374	2,439 27,997 57,589 2,097 70,282 94,738 167,117 48,030 32,882 93,019	2,457 27,897 59,121 2,221 71,915 94,385 168,521 52,847 35,180 101,245	2,472 28,997 63,465 2,498 82,198 104,438 189,134 56,375 36,600 107,735	2,449 30,044 69,094 2,667 91,145 112,492 206,304 58,584 40,194 114,317

(a) Jobbing and general engineering works, n.e.i.

(b) Includes Foundries-ferrous, Tasmania.

EXTRACTING AND REFINING OF NON-FERROUS METALS; ALLOYS AUSTRALIA, 1959-60 TO 1963-64

			1959–60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of output. Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily	in use	. \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	71 7,438 19,070 9,666 128,751 41,004 179,421 20,210 42,990 86,776	69 7,545 19,684 9,405 149,346 43,969 202,720 21,449 47,836 90,216	62 7,974 21,284 10,563 143,383 43,427 197,373 23,913 63,899 94,081	8,277 22,905 13,331 194,286 52,090 259,707 28,051 79,506 93,482	68 8,960 25,996 17,839 235,482 62,349 315,670 37,881 100,851 132,003

The above table shows particulars of establishments engaged in metal extraction and ore reduction including secondary recovery of metals, but excluding blast furnaces engaged in production of pig iron from iron ore. Ore dressing and elementary smelting of metallic minerals (e.g. in the case of gold), when these are carried out in an associated plant at or near the mine, are included in the mineral industry (see the chapter Mineral Industry).

ELECTRICAL MACHINERY, CABLES AND APPARATUS AUSTRALIA, 1959-60 TO 1963-64

_		1959–60	1960–61	1961-62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	1,360 53,089 108,022 5,70 217,424 180,398 403,192 77,358 55,205 118,299	1,339 54,072 114,358 5,642 221,361 187,792 414,795 85,550 53,659 122,609	1,349 52,918 114,039 5,671 225,474 186,033 417,178 92,016 55,455 128,326	1.404 55,692 123,113 6,153 232,141 201,809 440,103 103,325 57,486 134,043	1,438 59,416 135,806 6,841 263,668 229,536 500,045 110,908 62,232 142,213

New South Wales factories account for almost two-thirds of the output of this industry.

INDIVIDUAL INDUSTRIES

TRAMCARS AND RAILWAY ROLLING STOCK(a) AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961–62	1962–63	1963-64
Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$h.p.	129 36,746 68,416 2,224 38,827 82,947 123,998 25,522 34,349 116,443	126 35,323 69,589 2,194 38,780 85,779 126,753 27,363 35,315 116,063	122 35,466 71,990 2,170 39,249 87,369 128,788 29,307 35,398 115,416	122 34,653 70,663 2,144 39,370 85,495 127,009 29,357 37,166 116,027	33,689 73,267 2,162 39,622 92,435 134,219 29,372 38,456 114,456

(a) Government and local authority only.

The railway and tramway workshops, which form an important part of Class 4, are owned chiefly by State governments and local authorities. Workshops (fifteen in 1963-64) controlled by non-public bodies are not included in the figures above.

MOTOR VEHICLES—CONSTRUCTION, ASSEMBLY, REPAIRS, ETC. AUSTRALIA, 1963-64

-	Construc- tion and assembly	Repairs	Motor bodies (a)	Motor acces- sories	Total
Number of factories Number of persons employed Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery Value of plant and machinery	43	11,224	2,291	308	13,866
	24,311	68,141	33,812	17,393	143,657
	64,647	124,175	79,546	40,836	309,204
	5,040	4,016	3,467	2,664	15,187
	151,160	137,695	211,032	68,811	568,697
	109,608	199,628	116,498	68,678	494,412
	265,808	341,339	330,997	140,153	1,078,296
	65,969	184,508	71,126	31,007	352,610
	47,981	30,981	60,717	32,577	172,256
	90,106	80,322	91,412	64,085	325,925

⁽a) Includes motor body repairing, panel beating, duco spraying, etc.

The industries catering for the motor trade are included in Class 4, Industrial metals, machines and conveyances. In the table above a summary is given of the principal statistics for 1963-64 for each branch of industry associated with the motor trade of Australia.

In the next table similar details are shown for Australia for these industries combined, for the years 1959-60 to 1963-64. Victoria, New South Wales, and South Australia account for the bulk of the output of these industries. Most of the output of the other States is from repair work.

MOTOR VEHICLES—CONSTRUCTION, ASSEMBLY, REPAIRS, ETC. AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 use . h.p	10,246 372,659 366,732 749,637 228,974 103,694	12,757 127,274 248,771 11,787 403,554 396,000 811,341 257,969 132,055 266,266	13,135 121,409 240,583 11,756 375,093 391,220 778,069 290,792 139,287 276,293	13,623 135,579 281,091 13,783 491,384 448,106 953,273 321,872 158,471 310,518	13,866 143,657 309,204 15,187 568,697 404,412 1,078,296 352,610 172,256 325,925

SHIP AND BOAT BUILDING AND REPAIRING, MARINE ENGINEERING AUSTRALIA, 1959-60 TO 1963-64

	1959–60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of outout Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use h	754 19,193 36,283 56,230 11,867 10,174	318 14,155 32,227 802 21,960 39,419 62,181 12,939 10,594 75,300	318 14,293 32,928 862 23,333 39,930 64,125 12,496 10,681 75,568	335 14,218 33,366 873 28,106 40,396 69,375 13,308 11,258 77,691	346 14,253 35,043 901 31,645 40,272 72,817 13,865 11,745 81,291

The above table includes government factories as well as those owned privately and by municipal authorities. About half the output of this industry comes from New South Wales shipyards, with Victoria and South Australia accounting for the greater part of the balance.

AGRICULTURAL MACHINES AND IMPLEMENTS AUSTRALIA, 1959-60 TO 1963-64

	1959-60(a)	1960–61(a)	1961–62(a)	1962–63(a)	1963–64
Number of factories Number of persons employed Salaries and wages paid. \$'00 Value of power, fuel, etc., used \$'00 Value of materials used \$'00 Value of production \$'00 Total value of output \$'00 Value of land and buildings \$'00 Value of plant and machinery \$'00 Horse-power of engines ordinarily in use h.j	0 1,444 0 35,215 0 33,694 0 70,353 0 13,713 0 9,451	450 11,307 22,872 1,475 34,646 33,741 69,862 16,437 10,490 39,648	497 11,317 22,901 1,535 36,487 36,326 74,348 19,173 10,883 41,339	531 11,785 25,610 1,633 38,912 39,632 80,177 20,132 11,441 43,226	556 13,818 33,117 1,940 51,440 49,702 103,082 23,064 13,245 46,606

⁽a) Excludes Tasmania. In Plant, Equipment and Machinery (including Machine Tools), page 128.

Victorian factories produce more than half the output of the above industry.

NON-FERROUS METALS—ROLLING AND EXTRUSION AUSTRALIA, 1959-60 TO 1963-64

_		1959–60	1960-61	1961–62	1962-63	1963–64
Value of power, fuel, etc., used Value of materials used . Value of production	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	21 5,811 14,832 2,519 80,853 30,075 113,447 11,314 17,202 59,203	25 6,304 15,683 2,577 73,288 28,315 104,180 17,072 33,177 73,869	30 6,566 16,935 3,131 80,243 30,868 114,242 19,545 34,622 80,662	30 6,751 17,850 3,162 86,982 35,734 125,878 20,022 39,739 90,942	30 6,983 20,293 3,689 104,550 41,399 149,638 21,531 45,932 114,313

NON-FERROUS METALS—FOUNDING, CASTING, ETC. AUSTRALIA, 1959-60 TO 1963-64

_		1959–60	1960-61	1961–62	1962-63	1963–64
Value of power, fuel, etc., used Value of materials used . Value of production . Total value of output . Value of land and buildings .	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	480 10,602 21,770 1,813 41,274 36,831 79,918 13,925 11,015 31,150	490 10,510 22,073 1,817 40,297 36,917 79,031 16,392 13,078 34,082	477 9,833 20,789 1,794 39,872 36,733 78,399 18,677 13,439 34,285	462 10,467 22,613 1,964 46,702 40,913 89,579 19,654 14,617 36,561	461 11,180 25,389 2,100 53,556 49,276 104,932 21,150 15,163 38,729

SHEET METAL WORKING, PRESSING AND STAMPING AUSTRALIA, 1959-60 TO 1963-64

		1959-60	1960–61	1961-62	1962-63	1963–64
Number of factories Number of persons employed Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in u	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	1,076 26,843 53,702 3,257 121,602 96,866 221,725 41,729 30,082 77,233	1,111 27,474 57,164 3,098 130,451 100,206 233,755 49,801 34,738 86,020	1,142 26,545 55,667 3,216 132,210 101,073 236,499 55,770 36,108 79,963	1,156 27,924 59,854 3,543 139,767 113,707 257,017 59,812 40,461 84,487	1,181 29,551 66,877 3,719 156,346 123,360 283,425 65,805 44,779 89,116

PIPES, TUBES AND FITTINGS-FERROUS: AUSTRALIA, 1959-60 TO 1963-64

	1959–60	1960-61	1961–62	1962-63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use Number of factories \$'000 Value of land and havildings \$'000 Value of plant and machinery. \$'000 Horse-power of engines ordinarily in use	49	55	62	58	58
	8,332	8,547	8,272	8,784	9,138
	19,311	20,679	20,243	22,394	24,495
	2,714	2,701	2,577	3,212	3,425
	52,909	51,060	51,756	54,775	60,047
	39,087	40,042	37,782	38,751	45,258
	94,710	93,803	92,115	96,738	108,730
	12,602	13,636	14,689	17,593	17,921
	13,910	14,366	15,483	19,579	22,330
	50,038	52,300	47,547	56,219	60,447

New South Wales, South Australia, and Victoria produce most of the output of the above industry.

WIRE AND WIRE WORKING (INCLUDING NAILS) AUSTRALIA, 1959-60 TO 1963-64

	1959–60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use Number of services and se	1,810 71,750 41,972 115,532 16,244 12,255	282 10,195 22,596 1,845 74,602 42,100 118,547 17,916 13,176 37,233	283 9,804 21,229 1,762 69,936 38,722 110,420 19,570 13,988 39,010	289 10,377 23,820 1,889 80,581 43,909 126,379 21,200 16,168 43,818	298 10,433 24,959 2,033 92,097 46,710 140,840 21,743 15,770 42,624

New South Wales and Victoria predominate in this industry.

WIRELESS AND AMPLIFYING APPARATUS: AUSTRALIA, 1959-60 TO 1963-64

		1959-60	1960-61	1961-62	1962-63	1963-64
Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	289 19,559 35,288 1,241 100,259 60,607 162,107 17,882 11,488 14,302	301 17,273 34,184 1,296 80,517 51,009 132,822 20,958 12,936 14,850	327 14,707 29,204 1,171 71,990 47,173 120,334 23,129 12,893 15,353	330 16,586 33,240 1,315 78,940 54,437 134,692 24,104 13,266 15,216	355 16,907 35,772 1,321 78,847 56,834 137,002 23,883 12,888 14,720

The above industry is confined mainly to New South Wales, Victoria and South Australia.

COTTON SPINNING AND WEAVING: AUSTRALIA, 1959-60 TO 1963-64

_		1959-60	196061	1961–62	1962–63	196364
Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	92 9,780 17,706 1,995 41,262 32,447 75,704 19,413 18,829 37,240	88 9,121 16,244 1,915 36,672 30,338 68,925 20,783 20,211 36,193	88 8,980 16,490 2,066 38,323 29,654 70,043 25,818 21,617 40,592	88 9,313 17,262 2,267 41,635 33,521 77,423 28,860 24,382 41,581	85 9,869 19,187 2,549 46,619 38,194 87,362 32,264 24,402 43,752

The growing of cotton is treated in some detail in the chapter Rural Industry. The production of raw cotton is supplemented by imports from overseas, chiefly (in 1964-65) from the United States of America, Mexico, Brazil, Pakistan, Uganda, Peru, and Colombia.

WOOL CARDING, SPINNING AND WEAVING: AUSTRALIA, 1959-60 TO 1963-64

		1959-60	1960–61	1961-62	1962–63	1963–64
Value of production	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	134 22,433 36,105 3,126 94,880 58,262 156,268 21,251 25,199 70,811	135 21,400 34,743 2,968 81,258 56,237 140,463 21,807 25,103 69,488	134 20,102 34,162 2,913 86,245 53,186 142,344 21,823 26,470 70,610	134 21,131 36,461 3,014 97,027 58,652 158,693 23,150 27,440 71,354	129 20,061 35,476 2,874 107,378 55,799 166,051 23,326 26,550 71,318

Victoria produces more than half the output of this industry.

HOSIERY AND OTHER KNITTED GOODS: AUSTRALIA, 1959-60 TO 1963-64

			195960	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinaril	· · · · · · · · · · · · · · · · · · ·	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	701 24,414 37,582 1,596 82,957 69,259 153,812 25,924 18,342 22,019	687 24,741 38,202 1,621 84,456 72,170 158,247 29,213 19,933 22,738	658 23,403 36,990 1,589 83,545 71,896 157,030 30,458 21,222 23,250	625 24,627 40,646 1,614 92,517 76,180 170,311 31,499 22,753 23,106	607 25,471 42,834 1,691 98,423 83,674 183,788 32,685 24,370 24,344

Victorian mills produce about three-quarters of the Australian output of knitted goods, most of the balance being produced in New South Wales.

RAYON, NYLON AND OTHER SYNTHETIC FIBRES AUSTRALIA, 1959-60 TO 1963-64

			1959–60	1960-61	1961-62	1962–63	1963–64
Number of factories Number of persons employed Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily	in use	. \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	33 3,072 5,836 802 13,637 10,010 24,449 4,494 5,710 10,669	40 3,878 7,752 939 17,316 12,343 30,598 6,433 7,643 12,161	44 3,947 7,866 1,033 19,767 13,646 34,446 7,350 7,956 13,632	45 4,329 9,079 1,143 25,733 16,089 42,965 8,596 9,141 14,202	43 4,527 9,825 1,236 27,483 18,191 46,910 8,711 8,688 14,279

Victoria produces nearly two-thirds of the total Australian output of synthetic fibre textiles, most of the balance being produced in New South Wales.

ROPE AND CORDAGE: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961–62	1962–63	1963-64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	28 2,387 4,570 316 8,333 8,815 17,464 5,251 3,317 14,057	27 2,335 4,545 342 10,242 8,514 19,098 5,259 3,389 15,015	26 2,146 4,379 346 8,480 8,244 17,070 5,403 3,437 15,153	26 2,307 4,861 369 9,590 9,504 19,463 5,508 3,568 15,240	25 2,404 5,118 396 11,022 8,465 19,883 5,492 3,600 15,407

Most of the production takes place in New South Wales and Victoria.

WOOLSCOURING AND FELLMONGERY: AUSTRALIA, 1959-60 TO 1963-64

_		1959-60	1960-61	1961–62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	. \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	59 3,014 6,701 1,282 31,087 9,919 42,288 4,392 2,695 17,479	58 2,740 6,176 1,110 24,919 8,842 34,871 4,136 2,723 17,926	58 2,803 6,307 1,170 28,062 8,866 38,098 4,801 2,722 16,779	56 2,842 6,594 1,238 31,928 9,271 42,437 5,687 3,069 17,544	54 2,570 6,152 1,212 35,621 8,546 45,379 6,082 2,993 18,089

Most of the production from the above industry comes from New South Wales and Victoria

TANNING, CURRYING AND LEATHER DRESSING AUSTRALIA, 1959-60 TO 1963-64

		1959-60	1960–61	1961–62	1962–63	196364
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	118 4,435 9,223 968 31,531 13,935 46,434 6,798 4,303 33,516	112 4,245 9,150 969 28,842 13,496 43,307 6,836 4,460 31,516	108 4,159 9,224 976 28,560 14,785 44,321 7,074 4,483 31,278	102 4,215 9,473 1,001 25,156 16,229 42,386 7,329 4,531 27,598	102 4,298 9,910 1,020 23,881 17,165 42,066 8,205 4,761 29,598

New South Wales, Victorian and Queensland factories produce most of the output of the above industry.

LEATHER GOODS (INCLUDING SADDLERY AND BELTING) AUSTRALIA, 1959-60 TO 1963-64

	1959–60	1960–61	1961-62	196263	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used \$'000 Value of materials used \$'000 Value of production \$'000 Total value of output \$'000 Value of land and buildings \$'000 Value of plant and machinery \$'000 Horse-power of engines ordinarily in use h.p	132 13,214 12,126 25,472 5,643 1,292	418 4,658 6,839 131 13,010 11,756 24,897 6,171 1,669 3,678	392 4,315 6,553 133 12,064 11,357 23,554 6,383 1,690 3,155	386 4,519 6,950 148 13,151 12,336 25,635 6,884 1,484 3,387	383 4,646 7,260 161 14,083 12,854 27,097 7,238 1,572 3,716

As with other industries of this class, New South Wales and Victorian factories dominate this industry.

TAILORING AND READY-MADE CLOTHING: AUSTRALIA, 1959-60 TO 1963-64

	1959–60	196061	1961–62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Salaries and wages paid. Salaries and wages paid. Salaries and wages paid. S'000 Value of power, fuel, etc., used S'000 Value of materials used. S'000 Value of production S'000 Value of land and buildings. S'000 Value of plant and machinery Horse-power of engines ordinarily in use.	934 81,582 70,332 152,848 26,574	1,871 33,890 47,083 989 85,348 73,941 160,278 30,765 6,892 11,820	1,839 32,496 46,099 1,000 82,170 75,170 158,340 32,378 6,902 12,618	1,847 33,234 48,543 1,027 88,153 80,043 169,223 35,586 7,032 12,939	1,892 34,188 51,126 1,060 92,342 86,803 180,205 38,214 7,406 13,348

New South Wales and Victorian factories account for more than 90 per cent of the output of this industry.

DRESSMAKING AND MILLINERY: AUSTRALIA, 1959-60 TO 1963-64

_	1959–60	1960–61	1961–62	1962-63	1963–64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of naterials used Value of production Total value of output Value of land and buildings Value of plant and machinery Value of plant and machinery Horse-power of engines ordinarily in use h.p.	23,517 29,527 53,425 15,246 2,229	1,194 14,403 18,382 379 23,332 30,127 53,838 16,554 2,169 4,398	1,183 14,466 18,943 390 24,076 30,345 54,811 17,322 2,166 4,543	1,189 15,093 20,373 420 26,055 33,394 59,869 18,231 2,365 4,831	1,124 14,930 21,188 439 28,285 34,240 62,964 19,232 2,742 4,955

About two-thirds of the total Australian output comes from Victorian establishments.

SHIRTS, COLLARS AND UNDERCLOTHING: AUSTRALIA, 1959-60 TO 1963-64

		1959-60	1960–61	1961–62	1962–63	1963–64
Value of materials used	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	376 12,891 16,652 274 31,646 27,144 59,064 8,101 2,413 5,090	368 12,864 16,848 295 31,591 26,720 58,606 8,890 2,668 5,454	353 12,270 16,484 313 31,276 26,552 58,141 9,135 2,689 5,529	351 13,304 17,967 333 32,604 29,113 62,050 10,328 2,705 5,649	329 13,271 18,312 335 34,453 29,719 64,507 11,086 2,942 5,928

Victorian and New South Wales factories produce most of the output of the above industry.

FOUNDATION GARMENTS: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960-61	1961–62	1962–63	1963-64
Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	70 3,589 4,958 86 10,462 9,283 19,831 3,224 841 1,739	71 3,663 4,939 93 10,060 9,732 19,885 3,782 940 1,995	66 3,981 5,345 99 11,559 10,704 22,352 4,011 1,068 2,023	64 4,012 5,569 102 11,628 10,931 22,661 4,595 1,380 1,987	62 3,948 5,616 104 13,057 12,428 25,589 4,918 1,414 2,082

BOOTS AND SHOES: AUSTRALIA, 1959-60 TO 1963-64

		1959-60(a)	1960–61(a)	1961–62(<i>a</i>)	1962–63(a)	1963-44
Value of production Total value of output Value of land and buildings	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	455 20,201 32,202 578 56,276 48,118 104,972 11,101 9,302 17,674	460 20,782 33,826 628 59,850 53,128 113,606 12,316 10,718 14,599	447 20,084 33,436 655 59,991 53,693 114,339 13,427 10,768 14,805	439 20,502 34,898 656 61,165 54,821 116,642 14,238 14,097 15,351	393 21,030 36,459 686 63,347 58,342 122,375 16,243 16,077 15,594

(a) Includes details of Boot and Shoe Repairing in Tasmania.

The table above refers to boot and shoe factories as distinct from those devoted to repairing, except in Tasmania, where it has been necessary to include details of boot and shoe repairing, in order to avoid disclosure of confidential information for that State. Factories engaged in the manufacture of sand-shoes, goloshes and gum, etc., boots of rubber are not included here, but are classified under Rubber Goods, see page 141. About two-thirds of the output of boots and shoes is produced in Victoria.

FLOUR-MILLING: AUSTRALIA, 1959-60 TO 1963-64

-		1959–60	1960–61	1961–62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	135 4,410 9,314 1,855 115,911 22,200 139,966 13,964 12,350 49,253	132 4,463 9,834 1,889 125,651 23,674 151,214 14,718 11,368 50,265	125 4,405 9,929 1,902 123,862 23,456 149,220 14,227 10,922 48,586	118 4,219 9,680 1,873 120,792 23,910 146,575 15,769 11,696 47,393	114 4,512 10,559 2,029 132,712 27,962 162,703 18,024 13,065 54,256

OTHER GRAIN MILLS: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961–62	1962-63	1963 -64
Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	234 4,740 9,215 1,910 58,271 26,038 86,219 11,099 11,810 45,173	237 4,988 9,956 1,965 64,399 26,596 92,960 11,604 12,269 45,728	242 5,106 10,423 2,100 65,589 29,445 97,134 12,467 13,653 48,674	244 5,829 10,954 2,164 69,965 32,399 104,528 13,959 14,821 51,610	254 5,322 11,495 2,227 77,154 35,718 115,100 15,464 15,378 53,849

BAKERIES (INCLUDING CAKES AND PASTRY) AUSTRALIA, 1959-60 TO 1963-64

-		1959-60(a)	1960–61(a)	1961–62	1962-63	1963-64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of moduction Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	5,248 96,775 70,790 172,813 47,899 30,244	3,895 21,743 32,893 5,475 103,014 76,617 185,106 52,560 35,202 40,899	3,855 20,566 31,899 5,338 97,754 77,063 180,155 55,076 33,783 35,934	3,779 21,061 33,708 5,479 100,009 83,058 188,546 58,474 37,407 37,589	3,689 21,627 36,163 5,635 104,820 86,550 197,005 61,898 37,903 40,175

(a) Includes confectionery in Tasmania.

The table above contains information regarding establishments in which the manufacture of bread, cakes, etc., was carried on. Since the details refer only to establishments coming within the definition of a factory as explained at the beginning of this chapter, the table does not give complete details of the industry, as a large number of bakeries, etc. not coming within the definition are excluded.

BISCUITS: AUSTRALIA, 1959-60 TO 1963-64

_		1959-60	1960–61	1961–62	1962-63	196364
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of materials used. Value of land and buildings Value of land and buildings. Value of plant and machinery. Horse-power of engines ordinarial	y in us	 51 6,079 9,818 1,075 23,246 18,342 42,663 9,515 7,455 13,290	52 6,153 10,283 1,087 24,170 19,659 44,916 10,005 8,002 13,720	53 6,092 10,903 1,106 25,448 20,670 47,224 10,531 8,341 14,017	52 6,199 11,237 1,145 26,052 20,960 48,157 11,411 8,462 13,443	53 6,262 11,696 1,170 27,483 21,628 50,281 11,278 8,868 16,381

Three-quarters of the output of biscuits comes from New South Wales and Victoria.

SUGAR-MILLS: NEW SOUTH WALES AND QUEENSLAND, 1959-60 TO 1963-64

_				1959–60	1960–61	1961-62	1962–63	1963-64
New South Wales— Number of factories Number of persons employed	:	:		3 243	3 200	3 219	3 261	3 247
Queensland— Number of factories . Number of persons employed	•	:	:	31 6,197	31 6,014	31 6,053	31 6,387	31 6,981

Sugar-cane is grown in New South Wales and Queensland, and particulars of area, yield, etc. are given in detail in the chapter Rural Industry. The products of the sugar-mills are raw sugar and molasses, the former being sent to the refineries in different parts of Australia for further treatment. In 1963-64 there were two sugar refineries in Queensland and one each in New South Wales, Victoria, South Australia and Western Australia.

CONFECTIONERY: AUSTRALIA, 1959-60 TO 1963-64

-			1959-60(a)	1960–61 (a)	196162	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc. used Value of materials used. Value of production Total value of output. Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily	in use	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	214 6,765 10,786 1,110 35,348 22,278 58,736 10,617 9,489 30,571	209 6,890 11,332 1,183 36,767 24,781 61,731 11,180 10,855 32,006	197 7,987 14,277 1,451 44,955 29,660 76,066 15,269 15,270 38,948	189 8,015 14,555 1,542 46,426 31,604 79,572 17,264 16,954 42,665	189 8,156 15,185 1,595 49,471 32,371 83,437 17,459 17,780 43,165

⁽a) Excludes Tasmania. In Bakeries, etc., page 135.

New South Wales, Victoria and Tasmania produce most of the output of the above industry.

JAM, FRUIT AND VEGETABLE CANNING, PICKLES, SAUCES, VINEGAR AUSTRALIA, 1959-60 TO 1963-64

-	1959–60	196061	1961–62	1962–63	1963–64
Number of factories Number of persons employed Salaries and wages paid. Value of power fuel, etc., used Value of materials used. Value of production Sivalue of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	00 1,984 00 79,906 00 40,508 00 122,398 00 24,190	10,865 20,154 2,074 83,735 42,151 127,960 26,299 22,422	172 12,092 23,652 2,402 101,634 55,805 159,841 28,838 24,471 45,852	170 11,897 24,152 2,412 95,297 55,764 153,473 29,840 26,458 48,574	167 12,397 25,961 2,609 103,551 60,924 167,084 32,105 30,011 53,024

BACON-CURING:	AUSTRALIA.	1959-60 TC	1963-64
---------------	------------	------------	---------

_		1959–60	196061	1961–62	1962–63	1963-64
Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	83 4,068 7,706 864 56,438 13,557 70,859 6,776 4,100 15,670	83 4,215 8,269 880 58,090 15,925 74,895 7,926 5,488 16,044	83 4,482 8,831 985 54,190 19,051 74,226 8,045 4,958 17,537	87 4,675 9,315 1,043 61,989 19,563 82,595 8,546 5,455 18,236	85 4,865 9,924 1,113 67,841 19,155 88,109 8,750 5,919 18,152

Bacon and ham and other pig products are dealt with more fully in the chapter Rural Industry.

BUTTER, CHEESE AND CONDENSED AND PROCESSED MILK AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961–62	1962–63	1963-64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	363 11,139 22,084 5,840 224,614 49,633 280,087 28,044 32,337 111,149	361 11,072 23,049 5,650 213,214 48,974 267,838 29,403 34,092 114,392	353 11,317 24,476 5,863 223,850 51,586 281,299 30,554 35,443 114,643	348 11,320 24,883 5,961 226,691 52,425 285,077 31,032 37,797 118,087	347 11,510 26,314 6,138 244,587 59,237 309,962 31,534 39,361 120,084

Victoria produces more than half the total Australian output of the industry. The butter, cheese and condensed milk industries are dealt with more fully in the chapter Rural Industry.

MEAT AND FISH PRESERVING: AUSTRALIA, 1959-60 TO 1963-64

		195960	1960–61	1961–62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	. \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	128 9,326 19,829 2,488 130,232 28,389 161,109 17,234 11,158 39,390	143 9,031 18,638 2,399 125,372 30,771 158,542 18,693 13,512 44,731	149 9,491 21,048 2,623 133,621 37,687 173,931 20,859 14,163 49,253	159 10,032 21,917 2,854 142,070 38,266 183,190 20,624 15,447 53,652	164 10,161 22,923 3,146 158,668 43,539 205,353 21,013 15,162 56,424

The industries included in this group are engaged chiefly in the freezing and preserving of meat. Most abattoirs are excluded, except in Queensland and Western Australia. Works have been established at the seaports for the purpose of handling beef, lamb and mutton for export, and insulated space for the carriage of chilled and frozen produce is provided by shipping companies trading between Australia and other parts of the world. In recent years there has been considerable expansion in the canning of meat and fish. Particulars of the quantities and values of beef, mutton and lamb preserved by cold process exported from Australia over a series of years will be found in the chapter Rural Industry.

CONDIMENTS, COFFEE, SPICES: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961–62	1962-63	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	250 4,407 6,973 552 37,024 19,781 57,357 11,708 4,823 12,941	254 4,487 7,542 565 38,429 21,077 60,071 13,652 5,662 14,231	258 4,463 7,714 597 39,470 2,,211 61,278 15,284 7,143 14,625	260 5,283 9,805 685 43,940 27,558 72,183 18,519 8,330 16,811	238 5,218 9,975 743 45,737 27,506 73,986 18,766 7,956 17,088

BREWERIES: AUSTRALIA, 1959-60 TO 1963-64

		İ	1959–60	1960–61	1961–62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages raid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output(a). Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily	in use	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	25 5,701 12,876 2,981 45,463 37,240 85,684 25,847 30,852 48,396	25 5,626 13,308 2,988 48,606 39,579 91,173 26,006 29,697 49,172	25 5,512 13,756 3,062 51,496 43,113 97,671 27,148 31,250 50,083	24 5,741 14,001 3,118 54,311 45,609 103,C38 29,681 30,005 50,237	24 5,744 14,753 3,141 59,967 48,355 111,463 30,121 30,733 53,765

(a) Excludes excise duty.

AERATED WATERS AND CORDIALS: AUSTRALIA, 1959-60 TO 1963-64

	_	1959-60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	552 5,021 8,205 812 25,530 22,711 49,053 12,464 9,033 15,799	548 5,275 8,917 821 26,799 23,316 50,936 14,976 10,324 16,363	535 4,960 8,660 808 25,543 23,984 50,335 15,670 11,403 16,350	525 5.190 9,054 879 28,059 26,691 55,629 17,251 11,991 17,116	509 5,193 9,434 936 30,985 27,473 59,394 19,027 12,688 17,610

WINERIES AND DISTILLERIES: AUSTRALIA, 1959-60 TO 1963-64

_		1959–60	1960–61	1961–62	1962-63	1963–64
Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings	'000 '000 '000 '000 '000 '000 '000 h.p.	165 2,058 3,780 804 15,974 9,801 26,579 5,518 5,615 11,604	164 2,095 4,034 766 18,656 8,854 28,276 6,163 6,030 16,450	153 2,111 4,136 810 19,535 9,728 30,073 6,081 6,660 16,676	161 2,084 4,100 772 18,271 9,468 28,511 6,588 7,429 17,601	169 2,204 4,459 798 21,431 11,874 34,103 7,285 7,789 17,942

South Australia is the principal wine-producing State, and produces more than half the Australian output. Most of the remainder comes from New South Wales and Victoria.

TOBACCO, CIGARS AND CIGARETTES: AUSTRALIA, 1959-60 TO 1963-64

			1959-60	1960–61	196162	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Vaiue of materials used Value of production Total value of output(a). Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily	in use	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	21 5,046 9,548 353 73,157 33,778 107,288 7,240 9,923 10,417	20 5,178 10,464 450 81,431 36,757 118,638 7,103 12,418 10,342	18 4,914 10,564 468 77,136 38,981 116,585 8,613 13,719 11,203	18 4,671 10,277 512 78,592 40,377 119,481 9,280 14,187 12,033	15 4,498 10,898 508 78,380 45,233 124,121 10,004 13,784 11,955

⁽a) Excludes excise duty.

There are no such factories in South Australia or Tasmania, and Queensland and Western Australian production is relatively small.

INDIVIDUAL INDUSTRIES

ICE-CREAM: AUSTRALIA, 1959-60 TO 1963-64

	1959–60	196061	1961-62	1962-63	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	00 761 00 12,353 00 10,110 00 23,224 00 6,790	55 2,124 3,730 789 12,923 9,817 23,529 7,072 6,520 15,068	55 2,237 4,383 825 14,324 11,972 27,121 7,185 7,500 16,071	54 2,295 4,791 905 15.273 11.676 27.854 9,654 13,468 18,468	53 2,518 5,429 1,040 17,098 13,902 32,040 11,297 15,260 20,562

SAWMILLS AND PLYWOOD AND VENEER MILLS AUSTRALIA, 1959-60 TO 1963-64

<u></u>	1959-60	1960–61	1961–62	1962–63	1963–64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Value of land and buildings Value of land and buildings Value of plant and machinery Si000 Horse-power of engines ordinarily in use Np.	2,791	2,703	2,585	2.514	2,421
	36,040	34,701	32,382	31.993	32,202
	62,345	63,186	59,631	60.217	63,119
	5,208	5,243	5,196	5.258	5,324
	153,353	150,112	143,355	146,066	156,464
	116,825	113,051	106,984	106,431	115,903
	275,386	268,406	255,535	257.755	277,691
	33,311	37,096	36,028	37,590	39,004
	39,271	41,034	40,444	40,573	40,111
	407,440	425,280	417,084	428,421	437,807

Sawmilling is the most important industry in Class 10. Because of difficulties associated with the classifying of sawmills into forest and town mills, they have been combined in the above table, together with plywood and veneer mills. The figures exclude particulars of a small number of itinerant and travelling sawmills.

JOINERY: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961–62	1962-63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in us	\$ 000 \$ 000 \$ 000 \$ 000 \$ 000 \$ 000 \$ 000 \$ 000 \$ 000	2,149 17,203 30,861 827 59,409 48,890 109,126 23,398 8,886 80,902	2,217 17,912 34,383 911 65,671 54,436 121,018 27,316 9,651 86,375	2,256 17,239 34,051 919 63,174 53,423 117,516 28,673 10,096 86,240	2,247 17,509 35,340 965 64,092 55,761 120,818 30,543 10,200 89,459	2,239 17,594 36,706 969 70,156 59,291 130,416 32,757 10,811 89,578

CABINET AND FURNITURE MAKING AND UPHOLSTERY AUSTRALIA, 1959-60 TO 1963-64

~	1959–60	1960-61	1961-62	1962–63	1963–64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used . \$'0 Value of production . \$'0 Total value of output . \$'0 Value of plant and machinery . \$'0 Value of plant and machinery . b'0 Horse-power of engines ordinarily in use . h.	692 52,246 00 47,003 00 99,941 00 23,236 5,737	1,633 15,711 28,437 700 51,999 46,270 98,969 25,438 5,928 45,313	1,617 15,132 28,166 736 53,110 46,096 99,942 27,246 6,316 46,000	1,625 15,726 29,395 776 56,241 48,738 105,755 29,309 6,982 45,641	1,638 15,948 30,874 830 61,062 52,312 114,204 30,905 7,716 46,599

These industries constitute the principal manufactures in Class 11.

GOVERNMENT AND GENERAL PRINTING WORKS AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961-62	1962–63	1963–64
Number of factories Number of persons employed Salaries and wages paid. Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	1,573 27,744 53,421 1,593 70,349 93,135 165,077 43,197 38,702 43,561	1,641 29,080 58,730 1,785 76,498 102,246 180,529 51,227 43,778 47,269	1,706 29,936 61,826 1,884 74,945 110,134 186,963 59,364 47,418 50,129	1,738 30,614 64,592 2,058 82,395 117,270 201,723 61,046 50,504 52,182	1,780 31,637 69,623 2,227 89,280 124,881 216,388 67,550 54,510 54,491

The establishments covered in the table above include those engaged in lithographic printing, bookbinding, paper ruling and linotyping, and Government printing works.

NEWSPAPERS AND PERIODICALS: AUSTRALIA, 1959-60 TO 1963-64

-	ĺ	1959–60	1960–61	1961–62	1962-63	196364
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	429 15,437 34,112 1,230 59,453 61,534 122,217 30,385 27,920 40,116	420 15,789 38,011 1,307 61,474 67,994 130,775 32,032 28,832 45,815	421 15,491 37,748 1,352 55,634 69,088 126,074 33,236 31,438 45,776	415 15,500 38,140 1,392 58,153 70,385 129,930 34,396 32,400 44,094	411 16,052 40,225 1,480 61,446 74,133 137,059 39,053 37,403 44,029

MANUFACTURED STATIONERY: AUSTRALIA, 1959-60 TO 1963-64

_	1959-60	1960–61	1961–62	1962-63	1963-64
Value of power, fuel, etc., used Value of materials used Value of production Stale of output Value of land and buildings Value of plant and machinery Stale of plant and machinery Stale of plant and machinery Stale of plant and machinery	. 143 5,088 9,083 900 371 900 24,902 900 22,617 900 47,890 900 10,374 900 7,020 1,p. 9,132	11,018 7,418	153 5,221 10,262 450 30,328 25,290 56,068 12,843 8,793 10,853	150 5,436 10,946 465 33,299 26,818 60,582 14,329 10,274 10,936	148 5,563 11,746 524 37,028 30,272 67,824 14,645 10,774 10,955

New South Wales and Victoria produce about 90 per cent of the output of this industry.

CARDBOARD BOXES, CARTONS AND CONTAINERS AND PAPER BAGS AUSTRALIA, 1959-60 TO 1963-64

		ļ	1959–60	1960–61	1961–62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of output Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . h.p.	226 9,429 17.801 756 63,160 40,170 104,086 17,601 16,167 19,594	231 10,041 19,353 824 66,994 42,814 110,632 21,190 20,401 21,613	239 10,133 20,432 892 71,375 44,823 117,090 22,886 21,847 22,961	243 10,832 22,236 965 79,851 48,202 129,018 27,081 25,083 26,217	254 11,501 24,543 1,045 87,003 53,694 141,743 30,764 26,268 28,154

PAPER MAKING, INCLUDING PULP MILLS: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960–61	1961-62	1962–63	1963-64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in t	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000	20 8,775 23,959 7,812 53,202 56,652 117,666 26,614 54,037 189,774	22 8,822 24,111 8,400 55,847 55,316 119,563 27,965 66,753 216,539	23 8,147 22,437 8,219 53,010 52,911 114,140 31,809 67,470 215,927	24 8,678 24,694 9,305 59,800 60,409 129,514 34,336 73,911 256,291	26 9,205 28,011 9,944 66,555 66,195 142,694 34,310 73,352 256,769

Although the paper manufacturing industry has been established in Australia for many years, it was not until the manufacture of paper pulp from indigenous timber commenced in 1938-39 that any marked development occurred. The number of factories operating in 1963-64 comprised four in New South Wales, thirteen in Victoria, two in Queensland, two in South Australia, one in Western Australia, and four in Tasmania. In Tasmania, newsprint, writing and printing papers are produced, and in the other States, wrappings, other papers and boards. Mills producing pulp from eucalypt timber are operating in Victoria and Tasmania, while in South Australia pulp is being produced from locally-grown softwoods.

RUBBER GOODS: AUSTRALIA, 1959-60 TO 1963-64

			1959–60	1960–61	1961–62	1962–63	1963- 64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of putput. Value of land and buildings. Value of plant and machinery. Horse-power of engines ordinarily in	in use	\$'000 \$'000 \$'000 \$'000 \$'000 \$'000 \$'000 h.p.	118 15,620 34,283 4,635 86,764 52,145 143,544 15,170 19,086 128,393	116 15,416 34,077 4,763 84,077 56,052 144,892 18,242 20,530 131,947	114 13,993 31,439 4,562 71,884 52,447 128,893 18,979 20,613 134,428	117 15,702 37,482 5,112 86,020 61,433 152,565 20,687 23,196 140,956	119 16,944 41,181 5,354 93,452 67,037 165,843 32,160 30,688 151,918

Victorian and New South Wales factories produce about 90 per cent of the output of this industry.

TYRE RETREADING AND REPAIRING: AUSTRALIA, 1959-60 TO 1963-64

		195960	1960–61	1961-62	1962-63	1963-64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of output Value of land and buildings Value of plant and machinery. Horse-power of engines ordinarily in use	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	502 3,043 5,372 813 11,867 12,132 24,812 11,706 5,394 11,494	513 2,979 5,492 831 12,673 13,799 27,303 12,822 5,449 12,039	536 3,181 6,122 887 13,784 16,128 30,799 14,771 5,536 13,079	542 3,214 6,434 897 14,505 16,889 32,291 16,721 5,359 13,865	555 3,317 6,822 930 15,903 18,667 35,500 18,435 5,844 14,406

PLASTIC MOULDING AND PRODUCTS: AUSTRALIA, 1959-60 TO 1963-64

-	1959-60	1960–61	1961-62	1962–63	1963-64
Number of factories Number of persons employed. Salaries and wages paid. Value of power, fuel, etc., used Value of materials used. Value of production Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily in use	 375 10,180 20,320 1,698 52,787 39,772 94,257 15,613 16,017 37,055	398 10,658 21,507 1,800 49,226 40,789 91,815 17,556 19,494 41,635	421 10,496 21,302 1,933 48,520 41,834 92,287 20,111 21,210 47,083	430 11,801 25,083 2,257 57,598 48,499 108,354 23,321 25,397 54,576	440 12,668 27,904 2,530 63,489 57,641 123,660 25,485 28,965 58,759

ELECTRIC LIGHT AND POWER WORKS: AUSTRALIA, 1959-60 TO 1963-64

		1959–60	1960-61	1961-62	1962–63	1963-64
Number of factories Number of persons employed. Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of production Total value of output Value of land and buildings Value of plant and machinery Generators installed—killowatt capacity	. \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000 . \$'000	304 12,810 29,128 81,511 9,678 142,511 233,700 272,172 519,798 5,953	290 12,298 30,036 84,733 9,952 150,944 245,629 279,580 556,014 6,665	285 12,441 31,832 83,361 10,573 157,069 251,003 490,779 583,073 7,215	275 12,272 32,007 81,642 10,386 179,113 271,141 499,901 613,244 7,499	269 12,162 33,235 85,708 11,492 194,020 291,220 497,126 622,087 7,583

Further information on this subject is continued in the chapter Electric Power Generation and Distribution.

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on page 108.

GAS-WORKS: AUSTRALIA, 1959-60 TO 1963-64

_		1959-60	1960-61	1961–62	1962-63	1963–64
Number of factories Number of persons employed Salaries and wages paid Value of power, fuel, etc., used Value of materials used Value of moduction Total value of output Value of land and buildings Value of plant and machinery Horse-power of engines ordinarily	; 000 ; 000 ; 000 ; 000 ; 000 ; 000 ; 000 h.p.	88 3,790 8,734 5,884 29,475 24,075 59,434 11,892 58,692 46,058	84 3,733 9,164 6,025 29,778 27,083 62,886 14,469 58,693 46,363	85 3,674 9,260 6,156 28,360 28,108 62,624 15,036 59,691 52,037	87 3,561 9,288 5,710 26,651 31,739 64,100 15,072 59,382 58,989	87 3,449 9,157 5,627 26,586 33,289 65,502 15,327 60,559 56,803