

CHAPTER VII.

MANUFACTURING INDUSTRY.

§ 1. General.

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

Prior to the federation of the Australian States in 1901, the manufacturing industry in Australia was primarily engaged in the production of goods for local use, mainly of food commodities, furniture, bricks, clothing made from imported materials, printing, the repair rather than the manufacture of machinery, and the preliminary treatment of primary products, such as wool-scouring and sawmilling.

After federation, steady expansion of the manufacturing industry resulted from the removal of interstate trade barriers and the operation of a uniform protective tariff. This expansion was quickened as a result of the demands created by the 1914–18 War, the curtailment of imports, and the rapid growth of spending power within the community. New and more advanced development took place, iron and steel works and many related and subsidiary industries were established, extensive manufacture of machinery was begun, and a wide range of high-grade products—textiles, metal manufactures, electrical goods, etc.—was added to the list of commodities made in Australia.

A check was made to this expansion by the world-wide economic depression of 1929–33, but in 1933 returning general prosperity and the opportunities opened to local manufacturers by import restrictions, together with depreciation of Australian currency, gave renewed stimulus to manufacturing enterprise. As economic conditions improved, the tariff, revenue duties and primage were reduced, but without materially prejudicing the progress of local manufactures.

When war broke out in September, 1939, Australia became a major source of supply for British countries east of Suez and in meeting these demands, as well as those arising locally because of interruption of oversea importations, existing manufacturing industries expanded, and new enterprises were developed rapidly for the production of all classes of munitions, aircraft, ships, many new kinds of machinery and metal manufactures, scientific equipment, textiles, chemicals, etc. The outbreak of war with Japan, the basing of Allied armed forces in Australia, and Australian responsibilities for supplies in the South-west Pacific Area, gave added impetus to these developments, and manufacturing in Australia outstripped all previous levels.

The cessation of war production and the transition of industry to a peace-time basis temporarily retarded progress, but from 1945–46 onward there was renewed expansion of the manufacturing industries to which an inflow of capital from overseas contributed.

2. Decentralization of Manufacturing Industries.—Following upon a report by the Secondary Industries Commission, the Commonwealth Government called a conference of Commonwealth and State Ministers in August, 1945, to formulate a national policy for the decentralization of secondary industries. It was agreed that the State Governments should seek to promote decentralization along the lines appropriate to each, providing necessary services, assistance and concessions to the full extent of State resources. The Commonwealth undertook to collaborate in all matters of Commonwealth industrial policy

affecting the development and location of industry, to investigate in association with the States the prospects of developing secondary industries in selected areas, to advise the States of developments desirable for defence purposes, and to provide financial assistance for projects of national importance where the cost would be great relative to the State's resources.

The Commonwealth has assisted decentralization by allocating to private industry munitions and other defence buildings in decentralized areas and accommodating migrants in provincial centres with prospects of development. Oversea firms contemplating establishment in Australia are encouraged to select locations in rural areas or the less industrialized States.

3. Commonwealth Division of Industrial Development.—The functions of the Division of Industrial Development include the encouragement of industrial development, the exercising of Commonwealth responsibilities for the decentralization of industry, the promotion of industrial efficiency (especially the study of technical, production and managerial problems and the dissemination and application of new knowledge and methods), the encouragement of the development of technological institutes and the publication of studies of the structure and operation of Australian manufacturing industries. The Division was attached to the Ministry of National Development when formed in March, 1950, to plan the development of national resources and to promote decentralization and regional development in conjunction with the States, but was transferred to the Department of Trade in January, 1956.

4. Customs and Excise Tariffs and Bounties on Manufactures.—Particulars of Australian customs and excise tariffs, and the constitution and functions of the Australian Tariff Board in relation to matters affecting the industrial development of Australia, are given in Chapter X.—Trade.

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.

5. Scientific Research and Standardization.—(i) *The Commonwealth Scientific and Industrial Research Organization.* The function of this Organization, reference to which also appears in Chapter XXX., is to initiate and conduct research in connexion with industries in Australia, to train research workers, to establish industrial research studentships and fellowships, to make grants in aid of pure scientific research, to establish industrial research associations in various industries, to provide for testing and standardization of scientific equipment, to conduct an information service relating to scientific and industrial matters, and to act for Australia in liaison with other countries in matters of scientific research.

(ii) *The Standards Association of Australia.* This Association, which is referred to also in Chapter XXX., acts as the national standardizing organization of Australia and issues standard specifications for materials and codes of practice. Specifications and codes are prepared and revised periodically in accordance with the needs of industry, and standards are evolved and accepted by general consent.

(iii) *The National Association of Testing Authorities.* The National Association of Testing Authorities organizes national testing facilities throughout Australia to serve private and governmental needs. Laboratories may register voluntarily in respect of tests within their competence and the Association ensures the maintenance of their standards of testing. It is expected that there will be general acceptance of certificates of tests issued in the name of the Association by the registered laboratories.

6. *Definitions in Factory Statistics.*—The statistics relating to factories have been compiled from tabulations made by the several State Statisticians from returns supplied to them annually by manufacturers in accordance with the Statistical Acts of the States. 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, farriers, photography studios, florists and seedsmen, or most abattoirs. It should be noted that 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, wages, etc., of their employees, the value of premises and equipment, the horse-power of machinery, the value, and in most cases the quantities, of raw materials and fuel used, and quantities and values of principal materials and articles produced. The returns obtained from manufacturers are not intended to show a complete record of the income or expenditure of factories nor to show the profits or losses of factories collectively or individually.

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.

The *value of factory output* is the value of the goods manufactured or their value after passing through the particular process of manufacture 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.

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 materials 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, and timber from the saw-mills used in furniture factories and in joinery. 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.

In the special case of Government factories and workshops, the value of output is, in most cases, estimated by adding 10 per cent. to the value of materials and fuel used and other factory costs, including salaries and wages paid.

7. **Classification of Factories.**—In the compilation of statistical data relating to factories in Australia, a standard classification of manufacturing industries, formulated at a conference of Australian Statisticians in 1902 and revised from time to time, was used until the year 1929–30. A new classification was introduced in 1930–31, and this in turn was revised and extended (principally in respect of the placement and composition of sub-classes) in accordance with decisions of the Statisticians' Conference, 1945.

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. 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 *Secondary Industries*, published annually.

The principal classes and sub-classes in the current classification of factories are as follows:—

CLASSIFICATION OF FACTORIES.

CLASS I.—TREATMENT OF NON-METALLIFEROUS MINE AND QUARRY PRODUCTS.

Coke Works.
Briquetting and Pulverized Coal.
Carbide.
Lime, Plaster of Paris, Asphalt.
Fibrous Plaster and Products.
Marble, Slate, etc.
Cement, Portland.
Asbestos Cement Sheets and Mouldings.
Other Cement Goods.
Other.

CLASS II.—BRICKS, POTTERY, GLASS, ETC.

Bricks and Tiles.
Earthenware, China, Porcelain and Terracotta.
Glass (other than Bottles).
Glass Bottles.
Other.

CLASS III.—CHEMICALS, DYES, EXPLOSIVES, PAINTS, OILS, GREASE.

Industrial and Heavy Chemicals and Acids.
Pharmaceutical and Toilet Preparations.
Explosives (including Fireworks).
White Lead, Paints and Varnish.
Oils, Vegetable.
Oils, Mineral.
Oils, Animal.
Boiling-down, Tallow-refining.
Soap and Candles.
Chemical Fertilizers.
Inks, Polishes, etc.
Matches.
Other.

CLASS IV.—INDUSTRIAL METALS, MACHINES, CONVEYANCES.

Smelting, Converting, Refining, Rolling of
Iron and Steel.
Foundries (Ferrous).
Plant, Equipment and Machinery, etc.
Other Engineering.
Extracting and Refining of other Metals; Alloys.
Electrical Machinery, Cables and Apparatus.
Construction and Repair of Vehicles (10 groups).
Ship and Boat Building and Repairing, Marine
Engineering (Government and Other).
Cutlery and Small Hand Tools.
Agricultural Machines and Implements.
Non-Ferrous Metals—
Rolling and Extrusion.
Founding, Casting, etc.
Iron and Steel Sheets.
Sheet Metal Working, Pressing, and Stamping.
Pipes, Tubes and Fittings—Ferrous.
Wire and Wire Netting (including Nails).
Stoves, Ovens and Ranges.
Gas Fittings and Meters.
Lead Mills.

CLASS IV.—INDUSTRIAL METALS, MACHINES, CONVEYANCES—continued.

Sewing Machines.
Arms, Ammunition (excluding Explosives).
Wireless and Amplifying Apparatus.
Other Metal Works.

CLASS V.—PRECIOUS METALS, JEWELLERY, PLATE.

Jewellery.
Watches and Clocks (including Repairs).
Electroplating (Gold, Silver, Chromium, etc.).

CLASS VI.—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.
Rope and Cordage.
Canvas Goods, Tents, Tarpaulins, etc.
Bags and Sacks.
Other.

CLASS VII.—SKINS AND LEATHER (NOT CLOTHING OR FOOTWEAR).

Furriers and Fur-dressing.
Woolscouring and Fellmongery.
Tanning, Currying and Leather-dressing.
Saddlery, Harness and Whips.
Machine Belting (Leather or other).
Bags, Trunks, etc.

CLASS VIII.—CLOTHING (EXCEPT KNITTED).

Tailoring and Ready-made Clothing.
Waterproof and Oilskin Clothing.
Dressmaking, Hemstitching.
Millinery.
Shirts, Collars, Underclothing.
Foundation Garments.
Handkerchiefs, Ties and Scarves.
Hats and Caps.
Gloves.
Boots and Shoes (not Rubber).
Boot and Shoe Repairing.
Boot and Shoe Accessories.
Umbrellas and Walking Sticks.
Dyeworks and Cleaning, etc.
Other.

CLASS IX.—FOOD, DRINK AND TOBACCO.

Flour-milling.
Cereal Foods and Starch.
Animal and Bird Foods.
Chaffcutting and Corn-crushing.
Bakeries (including Cakes and Pastry).
Biscuits.
Sugar-mills.

CLASS IX.—FOOD, DRINK AND TOBACCO—
continued.

Sugar-refining.
Confectionery (including Chocolate and Icing Sugar).
Jam, Fruit and Vegetable Canning.
Pickles, Sauces, Vinegar.
Bacon Curing.
Butter Factories.
Cheese Factories.
Condensed and Dried Milk Factories.
Margarine.
Meat and Fish Preserving.
Condiments, Coffee, Spices.
Ice and Refrigerating.
Salt.
Aerated Waters, Cordials, etc.
Breweries.
Distilleries.
Wine-making.
Cider and Perry.
Malting.
Bottling.
Tobacco, Cigars, Cigarettes, Snuff.
Dehydrated Fruit and Vegetables.
Ice Cream.
Sausage Casings.
Arrowroot.
Other.

CLASS X.—SAWMILLS, JOINERY, BOXES, ETC.,
WOOD TURNING AND CARVING.

Sawmills.
Plywood Mills (including Veneers).
Bark Mills.
Joinery.
Cooperage.
Boxes and Cases.
Basketware and Wickerware (including Sea-grass and Bamboo Furniture).
Perambulators (including Pushers and Strollers).
Wall and Ceiling Boards (not Plaster or Cement).
Other.

CLASS XI.—FURNITURE OF WOOD, BEDDING, ETC.
Cabinet and Furniture Making including Billiard Tables and Upholstery.
Bedding and Mattresses (not Wire).
Furnishing Drapery.

CLASS XII.—FURNITURE OF WOOD, BEDDING, ETC.—
continued.

Picture Frames.
Blinds.

CLASS XIII.—PAPER, STATIONERY, PRINTING,
BOOKBINDING, ETC.

Newspapers and Periodicals.
Printing—
Government.
General, including Bookbinding.
Manufactured Stationery.
Stereotyping, Electrotyping.
Process and Photo Engraving.
Cardboard Boxes, Cartons and Containers.
Paper Bags.
Paper-making.
Pencils, Penholders, Chalks, Crayons.
Other.

CLASS XIII.—RUBBER.

Rubber Goods (including Tyres Made.)
Tyre Retreading and Repairing.

CLASS XIV.—MUSICAL INSTRUMENTS.

Gramophones and Gramophone Records.
Pianos, Piano-Players, Organs.
Other.

CLASS XV.—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.
Photographic Materials, (including Developing and Printing).
Toys, Games and Sports Requisites.
Artificial Flowers.
Other.

CLASS XVI.—HEAT, LIGHT, AND POWER.

Electric Light and Power.
Gas Works.

8. 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.

Year.	Fac-tories.	Em-ploy-ment.(a)	Salaries and Wages Paid.(b)	Value of—				
				Materials and Fuel Used.	Output.	Pro-duction.(c)	Land and Build-ings.	Plant and Ma-chinery.
	No.	'000.	£'000.	£'000.	£'000.	£'000.	£'000.	£'000.
			(d)	(d)	(d)	(d)	(d)	(d)
1901 ..	11,143	198	27,528	81,763	133,022	51,259	32,701	31,516
1911 ..	14,455	312	62,932	213,559	323,993	110,434	60,831	68,655
1920-21 ..	17,113	367	62,455	172,489	290,799	118,310	112,211	124,498
1930-31 ..	21,751	339	137,919	386,881	644,795	257,914	144,094	161,356
1940-41 ..	27,300	650	385,797	983,924	1,645,456	661,532	259,549	285,602
1949-50 ..	41,596	917	491,718	1,306,963	2,150,835	843,872	302,785	336,615
1950-51 ..	43,147	969	611,789	1,609,839	2,634,706	1,024,867	359,490	410,144
1951-52 ..	45,844	978	635,245	1,637,142	2,720,004	1,082,862	414,446	493,534
1952-53 ..	47,740	933	705,137	1,868,431	3,095,476	1,227,045	483,431	580,715
1953-54 ..	49,576	990	781,640	2,069,080	3,434,589	1,365,509	555,996	698,292
1954-55 ..	51,056	1,031	853,469	2,264,946	3,763,710	1,498,764	655,582	803,540
1955-56 ..	52,406	1,060						

(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 of output less value of materials and fuel, etc., used. (d) Not available.

§ 2. Number of Factories.

1. Number of Factories in each State.—The following table shows the number of factories operating in each State in the years 1938–39 and 1951–52 to 1955–56:—

FACTORIES: NUMBER.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938–39	9,464	9,250	3,087	2,067	2,129	944	26,941
1951–52	18,144	14,758	4,918	3,245	3,267	1,512	45,844
1952–53	19,251	15,154	5,068	3,339	3,424	1,504	47,740
1953–54	20,199	15,533	5,199	3,577	3,523	1,545	49,576
1954–55	20,837	15,861	5,284	3,750	3,727	1,597	51,056
1955–56	21,602	16,053	5,378	3,908	3,871	1,594	52,406

2. Number of Factories in Industrial Classes.—(i) *Australia*. The next table shows the number of factories in Australia during 1938–39 and 1951–52 to 1955–56 classified in the industrial classes agreed upon by the Conference of Statisticians in 1930. Details of some of the principal industries included in the table will be found in § 11, page 243.

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938–39.	1951–52.	1952–53.	1953–54.	1954–55.	1955–56.
I. Treatment of Non-metalliferous Mine and Quarry Products	564	1,316	1,276	1,280	1,303	1,337
II. Bricks, Pottery, Glass, etc.	471	601	623	639	662	666
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	666	1,049	1,090	1,099	1,124	1,139
IV. Industrial Metals, Machines, Conveyances	7,255	14,513	15,672	16,868	17,842	18,860
V. Precious Metals, Jewellery, Plate	290	662	681	720	746	782
VI. Textiles and Textile Goods (not Dress)	611	1,246	1,270	1,336	1,356	1,362
VII. Skins and Leather (not Clothing or Footwear)	533	785	778	783	810	789
VIII. Clothing (except Knitted)	4,314	6,989	7,036	7,260	7,370	7,390
IX. Food, Drink and Tobacco	5,202	7,033	7,248	7,379	7,433	7,468
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	2,822	5,546	5,790	5,769	5,845	5,895
XI. Furniture of Wood, Bedding, etc.	1,149	2,052	2,157	2,180	2,200	2,203
XII. Paper, Stationery, Printing, Book-binding, etc.	1,816	2,084	2,121	2,179	2,224	2,303
XIII. Rubber	299	430	446	465	495	513
XIV. Musical Instruments	34	68	69	75	79	84
XV. Miscellaneous Products	413	1,039	1,035	1,095	1,119	1,188
<i>Total, Classes I. to XV.</i>	26,439	45,413	47,292	49,127	50,608	51,979
XVI. Heat, Light and Power	502	431	448	449	448	427
Grand Total	26,941	45,844	47,740	49,576	51,056	52,406

Although not the best index of manufacturing activity, the number of factories affords some indication of the development of secondary industries. Except for the two war years 1941–42 and 1942–43, when there were decreases, the number of factories increased each year from 1931–32 to 1955–56. In the latter year the number of factories in Australia reached the record total of 52,406 or nearly 95 per cent. more than in 1938–39.

(ii) *States, 1955-56.* The following table shows the number of factories in each State classified according to the nature of the industry:—

FACTORIES: NUMBER IN INDUSTRIAL CLASSES, 1955-56.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	445	447	100	171	121	53	1,337
II. Bricks, Pottery, Glass, etc. ..	327	151	57	61	53	17	666
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	563	344	70	76	63	23	1,139
IV. Industrial Metals, Machines, Conveyances ..	7,852	5,573	1,912	1,591	1,484	448	18,860
V. Precious Metals, Jewellery, Plate ..	357	255	42	54	68	6	782
VI. Textiles and Textile Goods (not Dress) ..	490	738	29	48	42	15	1,362
VII. Skins and Leather (not Clothing or Footwear) ..	367	293	52	38	31	8	789
VIII. Clothing (except Knitted) ..	3,472	2,528	535	366	417	72	7,390
IX. Food, Drink and Tobacco ..	2,736	2,043	1,044	720	620	305	7,468
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	2,299	1,431	839	335	494	497	5,895
XI. Furniture of Wood, Bedding, etc. ..	803	691	302	158	173	76	2,203
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	981	838	189	147	117	31	2,303
XIII. Rubber ..	195	146	73	49	32	18	513
XIV. Musical Instruments ..	36	31	5	6	6	..	84
XV. Miscellaneous Products ..	563	455	56	43	56	15	1,188
<i>Total Classes I. to XV. ..</i>	<i>21,486</i>	<i>15,964</i>	<i>5,305</i>	<i>3,863</i>	<i>3,777</i>	<i>1,584</i>	<i>51,979</i>
XVI. Heat, Light and Power ..	116	89	73	45	94	10	427
Grand Total ..	21,602	16,053	5,378	3,908	3,871	1,594	52,406

§ 3. Classification of Factories according to Number of Persons Employed.

1. *General.*—The size classification of factories is based on the average weekly number of persons employed during the period of operation (including working proprietors). Prior to 1945-46 there was no dissection of the "over 100 employees" group, but for that and subsequent years this group was subdivided into the seven size groups shown in the table below.

2. *States, 1955-56.*—The following table shows, for each State, the number of factories classified according to the average number of persons employed:—

FACTORIES: CLASSIFICATION ACCORDING TO SIZE OF FACTORY, 1955-56.

Size of Factory (Persons employed).	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
NUMBER OF FACTORIES.							
Under 4 ..	8,646	5,693	1,822	1,316	1,844	667	19,988
4 ..	1,771	1,229	525	354	179	143	4,201
5 to 10 ..	5,148	3,915	1,502	1,022	992	416	12,995
11 to 20 ..	2,775	2,260	675	562	387	169	6,828
21 to 50 ..	1,911	1,754	501	378	300	120	4,964
51 to 100 ..	693	608	168	152	105	46	1,772
101 to 200 ..	363	325	103	63	36	17	907
201 to 300 ..	109	116	48	22	19	4	318
301 to 400 ..	49	44	10	12	1	4	120
401 to 500 ..	32	27	5	8	4	2	78
501 to 750 ..	43	50	9	6	2	2	112
751 to 1,000 ..	28	11	6	4	1	..	50
Over 1,000 ..	34	21	4	9	1	4	73
Total ..	21,602	16,053	5,378	3,908	3,871	1,594	52,406

The relative importance of large and small factories is illustrated by a classification of the average number of persons employed according to the size of factory in which they work:—

FACTORIES : CLASSIFICATION OF PERSONS EMPLOYED ACCORDING TO SIZE OF FACTORY, 1955-56.

Size of Factory (Persons employed).	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
AVERAGE NUMBER EMPLOYED DURING PERIOD WORKED.							
Under 4	16,447	11,116	3,778	2,753	3,739	1,359	39,192
4	7,084	4,916	2,100	1,416	716	572	16,804
5 to 10	35,802	27,408	10,503	7,109	6,676	2,881	90,379
11 to 20	40,436	33,006	9,927	8,117	5,743	2,483	99,712
21 to 50	59,240	55,581	15,465	12,175	9,730	3,686	155,877
51 to 100	48,100	42,758	11,736	10,852	7,467	3,201	124,114
101 to 200	51,071	46,084	14,563	8,948	4,980	2,435	128,081
201 to 300	26,476	28,206	11,712	5,596	4,585	982	77,557
301 to 400	16,896	15,341	3,606	4,251	319	1,319	41,732
401 to 500	14,032	12,092	2,312	3,495	1,745	925	34,601
501 to 750	26,301	31,080	5,338	3,455	1,281	1,391	68,846
751 to 1,000	23,956	9,495	5,342	3,444	841	..	43,078
Over 1,000	71,295	39,609	6,942	21,478	2,846	6,363	148,533
Total	437,136	356,692	103,324	93,089	50,668	27,597	1,068,506
Average per Factory ..	20.24	22.22	19.21	23.82	13.09	17.31	20.39

3. Australia, 1938-39 and 1951-52 to 1955-56.—In the following table, factories in Australia are classified according to the number of persons employed in conformity with the practice prior to 1945-46.

FACTORIES : CLASSIFICATION ACCORDING TO NUMBER OF PERSONS EMPLOYED, AUSTRALIA.

Year.	Establishments Employing on the Average—							
	20 and 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.
1938-39—								
Number	21,982	129,505	4,013	170,971	946	272,022	26,941	572,498
Average per establishment .. ..	..	5.89	..	42.60	..	287.55	..	21.25
1951-52—								
Number	37,634	224,763	6,635	271,611	1,575	489,579	45,844	985,953
Average per establishment .. ..	..	5.97	..	40.94	..	310.84	..	21.51
1952-53—								
Number	40,066	230,549	6,234	257,099	1,440	453,657	47,740	941,305
Average per establishment .. ..	..	5.75	..	41.24	..	315.04	..	19.72
1953-54—								
Number	41,631	236,727	6,403	265,830	1,542	494,564	49,576	997,121
Average per establishment .. ..	..	5.69	..	41.52	..	320.73	..	20.11
1954-55—								
Number	42,835	241,233	6,603	273,257	1,618	524,307	51,056	1,038,797
Average per establishment .. ..	..	5.63	..	41.38	..	324.00	..	20.35
1955-56—								
Number	44,012	246,087	6,736	279,991	1,658	542,428	52,406	1,068,506
Average per establishment .. ..	..	5.59	..	41.57	..	327.16	..	20.39

§ 4. Power Equipment in Factories.

1. **General.**—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.

In para. 2 below, 428 factories are shown in 1955-56 as using no power other than manual, the distribution of these factories among the various industries being as follows:—Fibrous Plaster and Products, 24; Galvanized Ironworking, Tinsmithing, 14; Tailoring and Ready-made Clothing, 103; Dressmaking, 10; Millinery, 7; Bakeries, 38; Cabinet and Furniture Making, 8; all other industries, 224.

2. **Rated Horse-power of Engines in Factories other than Central Electric Stations.**—The following table shows the number of factories using power-driven machinery, those using manual labour only, and the total rated horse-power of engines and electric motors ordinarily in use and in reserve or idle during 1955-56:—

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS, 1955-56.

State.	Number of Establishments.			Rated Horse-power of Engines and Motors.	
	Using Power.	Other.	Total.	Ordinarily in Use.(b)	In Reserve or Idle (omitting obsolete).
New South Wales ..	21,517	7	21,524	1,842,794	317,411
Victoria ..	15,938	58	15,996	1,268,055	157,887
Queensland ..	5,161	160	5,321	475,798	65,354
South Australia ..	3,808	58	3,866	335,690	44,024
Western Australia ..	3,644	137	3,781	223,670	31,899
Tasmania ..	1,578	8	1,586	233,655	32,413
Australia ..	51,646	428	52,074	4,379,662	648,988

(a) Includes Gas Works but excludes Central Electric Stations. (b) Excludes motors driven by electricity generated in factories not classified as Central Electric Stations.

3. **Rated Horse-power of Engines and Electric Motors Ordinarily in Use.**—(i) *According to Type, States.* 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, 1955-56.

State.	Steam.		Internal Combustion.			Water.	Motors driven by Electricity.		Total. (b)
	Reciprocating.	Turbine.	Gas.	Petrol or Other Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
N.S.W. ..	86,118	125,685	1,104	40,776	30,472	150	1,558,489	77,423	1,842,794
Victoria ..	24,757	71,185	1,864	27,650	18,428	1,288	1,122,883	54,145	1,268,055
Queensland ..	90,344	51,665	3,123	12,669	17,916	..	300,081	79,676	475,798
S. Australia ..	8,199	9,350	1,192	5,675	11,078	10	300,186	26,179	335,690
W. Australia ..	12,122	10,609	1,462	15,601	11,867	..	172,009	6,369	223,670
Tasmania ..	1,607	3	1	10,573	553	193	220,725	8	233,655
Australia ..	223,147	268,497	8,746	112,944	90,314	1,641	3,674,373	243,800	4,379,662

(a) Includes Gas Works but excludes Central Electric Stations. (b) Excludes particulars in column (c).

(ii) *According to Type, Australia.* In the following table, details of the total rated horse-power of the various types of engines in use are given for Australia for the years 1938-39, and 1951-52 to 1955-56.

FACTORIES(a): TYPES AND TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE, AUSTRALIA.

Year.	Steam.		Internal Combustion.			Water.	Motors driven by Electricity.		Total. (b):
	Reciprocating.	Turbine.	Gas.	Petrol or Other Light Oils.	Heavy Oils.		Purchased.	Own Generation. (c)	
1938-39 ..	268,409	84,149	32,916	17,971	55,799	1,616	1,017,912	179,890	1,478,772
1951-52 ..	232,512	149,435	13,684	122,704	160,142	1,826	2,764,321	205,729	3,444,624
1952-53 ..	232,570	171,824	10,268	109,172	150,342	1,666	2,913,521	214,617	3,589,363
1953-54 ...	237,533	170,914	8,457	109,919	109,293	1,771	3,135,395	255,917	3,773,282
1954-55 ..	225,192	202,162	7,407	103,954	93,465	1,695	3,398,135	226,625	4,032,010
1955-56 ..	223,147	268,497	8,746	112,944	90,314	1,641	3,674,373	243,800	4,379,662

(a) Includes Gas Works but excludes Central Electric Stations.

(b) Excludes particulars in column (c).

(iii) *In Classes of Industry, 1955-56.* 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.

FACTORIES(a): TOTAL RATED HORSE-POWER OF ENGINES AND ELECTRIC MOTORS ORDINARILY IN USE(b), 1955-56.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-ferrous Metal and Quarry Products ..	84,771	58,666	16,556	19,210	16,442	15,248	210,893
II. Bricks, Pottery, Glass, etc. ..	47,508	31,878	8,384	8,857	11,322	2,052	110,001
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	133,096	123,382	10,069	19,723	39,887	9,858	336,015
IV. Industrial Metals, Machines, Conveyances ..	907,885	386,448	102,036	156,438	51,787	57,072	1,661,666
V. Precious Metals, Jewellery, Plate ..	5,125	5,421	460	1,163	631	60	12,860
VI. Textiles and Textile Goods (not Dress) ..	53,888	99,275	6,366	8,002	2,629	5,759	175,919
VII. Skins and Leather (not Clothing or Footwear) ..	18,756	19,421	5,214	5,236	2,937	506	52,070
VIII. Clothing (except Knitted) ..	23,227	29,143	4,179	3,332	2,250	1,064	63,195
IX. Food, Drink and Tobacco ..	208,543	192,584	201,795	53,396	37,101	19,429	712,848
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	176,046	122,831	91,222	32,122	46,271	40,431	508,923
XI. Furniture of Wood, Bedding, etc. ..	17,542	17,686	8,166	6,246	4,200	1,615	55,455
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	68,998	88,901	9,389	14,213	5,563	79,716	266,780
XIII. Rubber ..	47,929	52,757	8,981	3,461	671	323	114,122
XIV. Musical Instruments ..	2,276	531	47	13	7	..	2,874
XV. Miscellaneous Products ..	21,921	28,295	658	1,914	760	411	53,959
Total, Classes I. to XV. ..	1,817,511	1,257,219	473,522	333,326	222,458	233,544	4,337,580
XVI. Gas Works ..	25,283	10,836	2,276	2,364	1,212	111	42,082
Grand-Total ..	1,842,794	1,268,055	475,798	335,690	223,670	233,655	4,379,662

(a) Excludes Central Electric Stations.

(b) Excludes motors driven by electricity generated in factories not classified as Central Electric Stations.

4. **Capacity of Engines and Generators installed in Central Electric Stations.**—(i) *According to Type, Australia.* Particulars of the type and the capacity of engines and generators installed in Central Electric Stations in Australia in 1955-56 are given in the following table:—

CENTRAL ELECTRIC STATIONS: POWER EQUIPMENT, AUSTRALIA, 1955-56.

Particulars.	Capacity of Engines and Generators.						
	Steam.		Internal Combustion.			Water.	Total.
	Reciprocating.	Turbine.	Gas.	Petrol or Other Light Oils.	Heavy Oils.		
Engines installed .. Rated H.P.	5,540	4,461,798	9,201	12,112	334,437	900,013	5,723,101
Generators installed—							
Kilowatt capacity—							
Total installed .. kW	4,062	3,247,097	5,895	8,394	226,747	647,855	4,140,050
Effective capacity .. „	3,674	2,985,789	4,420	6,579	208,820	646,035	3,855,317
Horse-power equivalent—							
Total installed .. H.P.	5,445	4,352,668	7,902	11,252	303,950	868,437	5,549,654
Effective capacity .. „	4,924	4,002,391	5,925	8,819	279,919	865,997	5,167,975

NOTE.—The number of establishments classified as Central Electric Stations in 1955-56 was 332.

(ii) *States.* Details of the capacity of engines and generators installed in Central Electric Stations in each State in 1955-56 are given in the next table.

CENTRAL ELECTRIC STATIONS: NUMBER AND POWER EQUIPMENT, 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Central Electric Stations No.	78	57	57	42	90	8	332
Engines installed .. Rated H.P.	2,341,111	1,332,095	655,964	(a)	359,751	(a)	5,723,101
Generators installed— Kilowatt capacity—							
Total installed .. kW	1,660,800	988,712	483,413	(a)	260,606	(a)	4,140,050
Effective capacity .. „	1,534,128	966,218	369,190	(a)	249,155	(a)	3,855,317
Horse-power equivalent—							
Total installed .. H.P.	2,226,269	1,325,349	648,006	(a)	349,337	(a)	5,549,654
Effective capacity .. „	2,056,468	1,295,196	494,892	(a)	333,987	(a)	5,167,975

(a) Not available for publication.

§ 5. Employment in Factories.

1. **Number Employed.**—(i) *General.* All persons employed in the manufacturing activities of a factory, including proprietors who work in their own business and “out-workers” (see para. 4 (ii), page 221), 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. Prior to 1945-46, the occupational grouping collected was (i) working proprietors; (ii) managers and overseers; (iii) accountants and clerks; (iv) enginedrivers and firemen; (v) workers in factory, skilled and unskilled; (vi) carters and messengers; and (vii) persons working regularly at home for the establishment. This grouping did not record separate details for technical staff (e.g., chemists, draftsmen, etc.) and supervisory staff and in 1945-46 the set-up on the collection form was amended to obtain the following groupings:—(i) Working proprietors; (ii) managerial and clerical staff including salaried managers and working directors; (iii) chemists, draftsmen and other laboratory and research staff; (iv) foremen and overseers; (v) skilled and unskilled workers; (vi) carters (excluding delivery only), messengers and persons working regularly at home.

Prior to the year 1928-29, average employment in factories was computed by dividing the sum of the number employed each week by the number of weeks worked. The figures therefore represented the average number employed over the period worked, which, for many factories, was less than a full year. Commencing with the year 1928-29, the figures represent the equivalent average number employed over a full year of fifty-two weeks. The classification of factories according to the number of persons employed (*see* § 3, p. 213), however, is still based on the old method, but for all other purposes the average number engaged over the full year is used.

(ii) *Australia.* Particulars of the numbers employed, the increase in employment and the rate per cent. of such increase are given for years 1938-39 and 1951-52 to 1955-56 in the following table :—

FACTORIES : EMPLOYMENT, AUSTRALIA.

Year.	Males.			Females.			Persons.		
	Number Em- ployed.	Increase on Preceding Year.		Number Em- ployed.	Increase on Preceding Year.		Number Em- ployed.	Increase on Preceding Year.	
		Number	Per Cent.		Number	Per Cent.		Number	Per Cent.
1938-39 ..	412,591	3,989	0.98	152,515	1,957	1.30	565,106	5,946	1.06
1951-52 ..	741,971	15,920	2.19	235,546	7,321	3.02	977,517	8,599	0.89
1952-53 ..	723,404	-18,567	-2.50	209,857	-25,689	-10.91	933,261	-44,256	-4.53
1953-54 ..	758,508	35,104	4.85	231,034	21,177	10.09	989,542	56,281	6.03
1954-55 ..	788,691	30,183	3.98	242,391	11,357	4.92	1,031,082	41,540	4.20
1955-56 ..	811,847	23,156	2.94	248,651	6,260	2.58	1,060,498	29,416	2.85

NOTE.—Minus sign (—) indicates decrease.

(iii) *States.* The following table shows, for the same years, (a) the average number of persons employed in manufacturing industries in each State; (b) for each State, the percentage of the total number employed in factories in Australia; and (c) the number so employed per ten thousand of mean population in each State and Australia.

FACTORIES : EMPLOYMENT.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
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AVERAGE NUMBER EMPLOYED DURING FULL YEAR (52 WEEKS).

1938-39 ..	228,781	201,831	54,110	43,371	23,211	13,802	565,106
1951-52 ..	405,994	324,143	94,349	83,907	45,097	24,027	977,517
1952-53 ..	380,213	310,759	93,123	80,483	45,188	23,495	933,261
1953-54 ..	402,595	331,277	98,119	85,503	47,459	24,589	989,542
1954-55 ..	419,810	346,648	100,293	89,565	49,314	25,452	1,031,082
1955-56 ..	433,081	355,185	102,473	92,589	50,108	27,062	1,060,498

PERCENTAGE OF AUSTRALIAN TOTAL.

1938-39 ..	40.48	35.72	9.58	7.67	4.11	2.44	100
1951-52 ..	41.53	33.16	9.65	8.58	4.62	2.46	100
1952-53 ..	40.74	33.30	9.98	8.62	4.84	2.52	100
1953-54 ..	40.68	33.48	9.92	8.64	4.80	2.48	100
1954-55 ..	40.71	33.62	9.73	8.69	4.78	2.47	100
1955-56 ..	40.84	33.49	9.66	8.73	4.73	2.55	100

FACTORIES : EMPLOYMENT—*continued.*

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
PER 10,000 OF POPULATION.							
1938-39 ..	836	1,078	537	729	497	581	815
1951-52 ..	1,208	1,409	773	1,150	763	801	1,145
1952-53 ..	1,112	1,315	746	1,074	737	761	1,067
1953-54 ..	1,182	1,367	754	1,088	753	795	1,112
1954-55 ..	1,213	1,393	757	1,109	746	813	1,134
1955-56 ..	1,229	1,385	758	1,110	750	848	1,138

2. Rates of Increase, 1938-39 and 1951-52 to 1955-56—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.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39 ..	1.74	0.02	3.82	-1.62	0.34	4.80	1.06
1951-52 ..	-0.24	2.32	-0.24	1.10	2.99	0.84	0.89
1952-53 ..	-6.35	-4.13	-1.30	-4.08	0.20	-2.21	-4.53
1953-54 ..	5.89	6.60	5.36	6.24	5.03	4.66	6.03
1954-55 ..	4.28	4.64	2.22	4.75	3.91	3.51	4.20
1955-56 ..	3.16	2.46	2.17	3.38	1.61	6.33	2.85

NOTE.—Minus sign (—) indicates decrease.

3. Persons Employed in Classes of Industry.—(i) *Australia.* The following table shows the average number of persons employed in factories in each industrial class in Australia for the years 1938-39 and 1951-52 to 1955-56 :—

FACTORIES : PERSONS EMPLOYED IN INDUSTRIAL CLASSES, AUSTRALIA.

Class of Industry.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
I. Treatment of Non-metalliferous Mine and Quarry Products	10,343	19,365	18,752	18,748	20,560	20,893
II. Bricks, Pottery, Glass, etc.	15,709	20,912	19,571	21,708	22,549	22,914
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	19,816	38,248	36,139	37,988	41,324	44,718
IV. Industrial Metals, Machines, Conveyances	177,677	389,252	376,398	397,713	422,124	444,274
V. Precious Metals, Jewellery, Plate	3,726	5,953	5,398	5,970	6,029	5,894
VI. Textiles and Textile Goods (not Dress)	46,082	63,548	60,087	69,482	69,046	68,356
VII. Skins and Leather (not Clothing or Footwear)	10,767	14,324	14,126	14,676	14,502	13,810
VIII. Clothing (except Knitted)	86,092	116,705	105,681	112,520	112,802	110,820
IX. Food, Drink and Tobacco	83,846	122,734	120,668	123,073	125,934	126,493
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	30,739	59,664	56,984	58,932	61,153	61,914
XI. Furniture of Wood, Bedding, etc.	15,287	22,156	20,353	20,975	21,342	21,508
XII. Paper, Stationery, Printing, Book-binding, etc.	39,913	56,455	53,219	56,119	59,777	62,713
XIII. Rubber	7,502	14,021	12,288	14,962	16,325	17,287
XIV. Musical Instruments	451	1,581	1,267	1,575	1,623	1,739
XV. Miscellaneous Products	7,727	18,176	17,240	19,565	19,962	20,967
Total, Classes I. to XV.	555,677	963,094	918,171	974,006	1,015,052	1,044,300
XVI. Heat, Light and Power	9,429	14,423	15,090	15,536	16,030	16,198
Grand Total	565,106	977,517	933,261	989,542	1,031,082	1,060,498

(ii) *States.* Particulars of the numbers employed in each industrial class are shown in the following table for each State :—

FACTORIES : PERSONS EMPLOYED IN INDUSTRIAL CLASSES, 1955-56.

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metallic ferous Mine and Quarry Products	8,006	6,492	1,825	1,971	1,865	734	20,893
II. Bricks, Pottery, Glass, etc. ..	11,655	5,893	1,295	2,109	1,590	372	22,914
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	19,891	16,577	1,769	3,243	2,782	456	44,718
IV. Industrial Metals, Machines, Conveyances	197,730	132,270	35,215	50,705	19,410	8,944	444,274
V. Precious Metals, Jewellery, Plate	2,314	2,562	327	421	249	21	5,894
VI. Textiles and Textile Goods (not Dress)	23,323	36,895	2,098	2,464	899	2,677	68,356
VII. Skins and Leather (not Cloth- ing or Footwear)	5,569	4,941	1,288	1,289	652	71	13,810
VIII. Clothing (except Knitted) ..	45,143	46,889	8,592	5,514	3,799	883	110,820
IX. Food, Drink and Tobacco ..	39,400	38,427	26,726	10,802	6,618	4,520	126,493
X. Sawmills, Joinery, Boxes, etc. Wood Turning and Carving ..	20,701	15,428	10,678	4,810	6,535	3,762	61,914
XI. Furniture of Wood, Bedding, etc.	8,301	6,263	3,048	2,017	1,393	486	21,508
XII. Paper, Stationery, Printing, Bookbinding, etc.	26,335	21,111	5,297	3,894	2,509	3,567	62,713
XIII. Rubber	7,376	6,771	1,774	988	220	158	17,287
XIV. Musical Instruments	1,338	303	36	34	28	..	1,739
XV. Miscellaneous Products	9,179	9,827	591	763	419	188	20,967
<i>Total, Classes I. to XV.</i>	<i>426,261</i>	<i>350,649</i>	<i>100,559</i>	<i>91,024</i>	<i>48,968</i>	<i>26,839</i>	<i>1,044,300</i>
XVI. Heat, Light and Power	6,820	4,536	1,914	1,565	1,140	223	16,198
Grand Total	433,081	355,185	102,473	92,589	50,108	27,062	1,060,498

4. *Persons Employed According to Occupational Grouping.*—(i) *General.* In the following table, the average number of persons employed in each State during 1955-56 are classified according to their occupational grouping. As mentioned previously, persons employed in factories are now classified on a basis different from that adopted prior to 1945-46. The nature of this change is indicated in para. 1 of this section (*see p. 217*).

FACTORIES : PERSONS EMPLOYED—OCCUPATIONAL GROUPING, 1955-56.

State.	Average Number of Persons Employed.						Total.
	Working Pro- prietors.	Man- a- gerial and Clerical Staff, etc.(a)	Chemists, Drafts- men, etc.	Foremen and Overseers.	Workers in Factory (Skilled and Un- skilled).	Carters (excluding Delivery only) and Messen- gers, etc. (b)	
New South Wales ..	16,053	50,325	6,024	18,426	339,969	2,284	433,081
Victoria ..	14,056	38,287	5,511	15,262	279,848	2,221	355,185
Queensland ..	4,677	9,764	911	3,790	82,848	483	102,473
South Australia ..	2,732	10,826	1,467	4,062	73,112	390	92,589
Western Australia ..	2,725	4,180	437	2,102	40,573	91	50,108
Tasmania ..	998	2,651	459	1,212	21,590	152	27,062
<i>Total Males</i> ..	<i>36,432</i>	<i>71,497</i>	<i>13,544</i>	<i>41,540</i>	<i>644,322</i>	<i>4,512</i>	<i>811,847</i>
<i>Total Females</i> ..	<i>4,809</i>	<i>44,536</i>	<i>1,265</i>	<i>3,314</i>	<i>193,618</i>	<i>1,109</i>	<i>248,651</i>
Total Persons ..	41,241	116,033	14,809	44,854	837,940	5,621	1,060,498

(a) Includes salaried managers and working directors.
at home.

(b) Includes persons working regularly

(ii) *Outworkers.* The term "outworker" or "homeworker" has acquired a special meaning in connexion with manufacturing industries, and embraces only persons to whom work is given out by factories to be done at home. Owing to the amended employment groupings adopted in 1945-46, persons working regularly at home for factories are now included with carters, messengers and others and separate details are no longer available. The number of "outworkers" employed by factories in 1944-45 was 1,049.

5. *Monthly Employment, 1938-39 and 1951-52 to 1955-56.*—(i) *Australia.* The following table shows the number of persons (excluding working proprietors) employed in factories on the pay-day nearest to the 15th of each month for the year 1938-39 and on the last pay-day of the month in the later years.

FACTORIES: MONTHLY EMPLOYMENT, AUSTRALIA.

(EXCLUDING WORKING PROPRIETORS.)

Month.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
MALES.						
July	387,693	710,373	688,670	704,109	739,450	768,382
August	389,979	711,656	682,882	707,438	741,435	770,312
September	391,576	712,284	680,026	710,246	743,638	771,715
October	393,977	714,424	679,901	715,338	746,139	774,071
November	395,192	716,300	680,398	719,230	750,285	777,304
December	394,438	708,848	678,174	716,202	747,230	772,509
January	385,742	710,357	680,298	722,277	750,823	774,077
February	392,056	709,453	689,012	727,754	755,456	778,552
March	395,146	707,701	694,516	732,000	757,956	779,527
April	391,005	702,571	697,202	731,923	760,139	780,418
May	393,609	696,475	698,711	734,340	761,555	780,252
June	390,963	694,871	701,500	738,002	763,488	777,968
FEMALES.						
July	147,282	243,646	201,464	212,322	231,222	238,883
August	149,294	244,629	200,393	214,644	232,603	240,857
September	151,159	244,712	199,910	218,078	234,818	243,289
October	152,473	245,285	201,107	222,255	236,930	244,840
November	152,806	242,831	201,346	224,672	238,146	244,582
December	151,165	237,174	199,707	224,100	236,804	242,366
January	141,853	231,186	201,596	228,838	236,664	240,574
February	151,883	229,047	209,939	232,678	242,008	247,841
March	154,854	225,487	213,470	236,354	242,573	247,209
April	152,614	216,845	211,725	234,175	239,460	244,588
May	150,693	212,036	211,392	232,333	238,450	243,989
June	148,601	207,163	211,551	232,009	238,529	242,548
PERSONS.						
July	534,975	954,019	890,134	916,431	970,672	1,007,265
August	539,273	956,285	883,275	922,082	974,038	1,011,169
September	542,735	956,996	879,936	928,324	978,456	1,015,004
October	546,450	959,709	881,008	937,593	983,069	1,018,911
November	547,998	959,131	881,744	943,902	988,431	1,021,886
December	545,603	946,022	877,881	940,302	984,034	1,014,875
January	527,595	941,543	881,894	951,115	987,487	1,014,651
February	543,939	938,500	898,951	960,432	997,464	1,026,393
March	550,000	933,188	907,986	968,354	1,000,529	1,026,736
April	543,619	919,416	908,927	966,098	999,599	1,025,006
May	544,302	908,511	910,103	966,673	1,000,005	1,024,241
June	539,564	902,034	913,051	970,011	1,002,017	1,020,516

(ii) *States.* Particulars of the numbers employed in each State on the last pay-day of each month in 1955-56 are shown in the following table :—

FACTORIES : MONTHLY EMPLOYMENT, 1955-56.

(EXCLUDING WORKING PROPRIETORS.)

Month.	N.S.W.	Vic.	Qld.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
July	309,781	242,423	82,643	72,723	40,554	20,258	768,382
August	310,780	243,763	82,344	72,459	40,698	20,268	770,312
September	310,767	244,121	82,589	72,832	41,066	20,340	771,715
October	311,662	244,944	82,726	72,991	41,061	20,687	774,071
November	313,484	246,012	82,273	73,389	41,294	20,852	777,304
December	312,894	245,609	77,487	73,787	41,298	21,434	772,509
January	313,779	246,977	75,886	74,555	41,172	21,708	774,077
February	315,787	247,619	77,784	74,554	41,136	21,672	778,552
March	315,402	248,679	78,286	74,860	40,808	21,492	779,527
April	316,400	248,606	78,721	74,474	40,543	21,674	780,418
May	316,316	247,551	80,375	73,870	40,468	21,672	780,252
June	314,815	246,165	81,733	73,668	39,996	21,591	777,968
FEMALES.							
July	101,822	93,553	16,723	15,626	6,565	4,594	238,883
August	102,862	93,971	17,283	15,694	6,543	4,504	240,857
September	104,477	94,749	17,193	15,819	6,603	4,448	243,289
October	105,158	95,032	17,579	16,005	6,644	4,422	244,840
November	105,070	95,266	16,983	16,055	6,750	4,458	244,582
December	103,448	93,833	17,013	16,706	6,598	4,768	242,366
January	101,824	93,742	16,319	16,961	6,567	5,161	240,574
February	104,108	97,927	17,338	16,791	6,647	5,030	247,841
March	103,268	98,116	17,281	16,618	6,743	5,183	247,209
April	103,031	96,680	16,356	16,302	6,776	5,443	244,588
May	103,667	95,666	16,657	15,796	6,700	5,503	243,989
June	103,164	94,941	16,737	15,713	6,490	5,503	242,548
PERSONS.							
July	411,603	335,976	99,366	88,349	47,119	24,852	1,007,265
August	413,642	337,734	99,627	88,153	47,241	24,772	1,011,169
September	415,244	338,870	99,782	88,651	47,669	24,788	1,015,004
October	416,820	339,976	100,305	88,996	47,705	25,109	1,018,911
November	418,554	341,278	99,256	89,444	48,044	25,310	1,021,886
December	416,342	339,442	94,500	90,493	47,896	26,202	1,014,875
January	415,603	340,719	92,205	91,516	47,739	26,869	1,014,651
February	419,895	345,546	95,122	91,345	47,783	26,702	1,026,393
March	418,670	346,795	95,567	91,478	47,551	26,675	1,026,736
April	419,431	345,286	95,077	90,776	47,319	27,117	1,025,006
May	419,983	343,217	97,032	89,666	47,168	27,175	1,024,241
June	417,979	341,106	98,470	89,381	46,486	27,094	1,020,516

6. **Distribution of Employees According to Age.**—The extension of statistics of employment in factories, decided upon at the Conference of Australian Statisticians held in 1945, permits of a distribution of employees (excluding working proprietors) into seven age-groups from 1945–46 onwards, instead of three as in previous years. The particulars are collected as at June. The numbers employed in each age-group on the last pay-day in June, 1955 and 1956, are given below :—

FACTORIES : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1955 AND 1956.

(EXCLUDING WORKING PROPRIETORS.)

Age Group.	June, 1955.			June, 1956.		
	Males.	Females.	Persons.	Males.	Females.	Persons.
Under 16 years ..	9,093	6,605	15,698	9,061	6,557	15,618
16 years	13,137	8,547	21,684	13,025	8,163	21,188
17 "	14,694	9,902	24,596	14,985	9,390	24,375
18 "	15,341	9,994	25,335	15,348	10,102	25,450
19 "	13,772	8,600	22,372	14,884	9,072	23,956
20 "	12,838	7,710	20,548	13,635	7,801	21,436
21 " and over ..	684,613	187,171	871,784	697,030	191,463	888,493
Total	763,488	238,529	1,002,017	777,968	242,548	1,020,516

The following table shows the age distribution in sexes for Australia in June, 1939, and 1952 to 1956.

FACTORIES : DISTRIBUTION OF EMPLOYEES IN JUNE, ACCORDING TO AGE, AUSTRALIA.

(EXCLUDING WORKING PROPRIETORS.)

In June.	Under 16 Years.	16 Years.	17 Years.	18 Years.	19 Years.	20 Years.	21 Years and Over.	Total.
MALES.								
1939(a) ..	16,109	76,418					298,436	390,963
1952 ..	9,079	11,505	12,608	12,255	11,711	11,537	626,176	694,871
1953 ..	9,011	12,451	13,893	13,655	12,383	12,293	627,814	701,500
1954 ..	9,294	12,874	14,947	14,591	12,971	12,426	660,899	738,002
1955 ..	9,093	13,137	14,694	15,341	13,772	12,838	684,613	763,488
1956 ..	9,061	13,025	14,985	15,348	14,884	13,635	697,030	777,968
FEMALES.								
1939(a) ..	15,497	56,273					76,831	148,601
1952 ..	5,669	7,185	8,364	8,854	8,296	7,732	161,063	207,163
1953 ..	6,874	8,303	9,072	9,237	8,623	7,945	161,497	211,551
1954 ..	7,228	8,945	9,899	9,702	8,719	7,807	179,709	232,009
1955 ..	6,605	8,547	9,902	9,994	8,600	7,710	187,171	238,529
1956 ..	6,557	8,163	9,390	10,102	9,072	7,801	191,463	242,548
PERSONS.								
1939(a) ..	31,606	132,691					375,267	539,564
1952 ..	14,748	18,690	20,972	21,109	20,007	19,269	787,239	902,034
1953 ..	15,885	20,754	22,965	22,892	21,006	20,238	789,311	913,051
1954 ..	16,522	21,819	24,846	24,293	21,690	20,233	840,608	970,011
1955 ..	15,698	21,684	24,596	25,335	22,372	20,548	871,784	1,002,017
1956 ..	15,618	21,188	24,375	25,450	23,956	21,436	888,493	1,020,516

(a) Details for individual ages 16–20 years not available separately.

§ 6. Sex Distribution in Factories.

1. Average Number of Males and Females Employed. The following table shows the average number of males and females employed in factories in each State for 1938-39 and 1951-52 to 1955-56 :—

FACTORIES : MALES AND FEMALES EMPLOYED.

State.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
MALES.						
New South Wales ..	167,172	304,808	291,704	305,040	316,673	327,106
Victoria ..	136,218	233,699	228,724	240,698	251,675	258,006
Queensland ..	43,941	77,673	77,627	81,425	83,290	85,123
South Australia ..	35,406	68,045	67,114	70,657	73,714	76,144
Western Australia ..	18,704	37,812	38,614	40,439	42,294	43,340
Tasmania ..	11,150	19,934	19,621	20,249	21,045	22,128
Australia ..	412,591	741,971	723,404	758,508	788,691	811,847
FEMALES.						
New South Wales ..	61,609	101,186	88,509	97,555	103,137	105,975
Victoria ..	65,613	90,444	82,035	90,579	94,973	97,179
Queensland ..	10,169	16,676	15,496	16,694	17,003	17,350
South Australia ..	7,965	15,862	13,369	14,846	15,851	16,445
Western Australia ..	4,507	7,285	6,574	7,020	7,020	6,768
Tasmania ..	2,652	4,093	3,874	4,340	4,407	4,934
Australia ..	152,515	235,546	209,857	231,034	242,391	248,651

2. Rate of 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 below for the years 1938-39 and 1951-52 to 1955-56 :—

FACTORIES : ANNUAL PERCENTAGE INCREASES OF MALES AND FEMALES EMPLOYED.

State.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
MALES.						
New South Wales ..	1.69	1.16	-4.30	4.57	3.81	3.29
Victoria ..	0.04	3.90	-2.13	5.24	4.56	2.52
Queensland ..	3.79	0.64	-0.06	4.89	2.29	2.20
South Australia ..	-2.39	1.80	-1.37	5.28	4.33	3.30
Western Australia ..	-0.30	4.02	2.12	4.73	4.59	2.47
Tasmania ..	4.40	2.47	-1.57	3.20	3.93	5.15
Australia ..	0.98	2.19	-2.50	4.85	3.98	2.94
FEMALES.						
New South Wales ..	1.88	-4.23	-12.53	10.22	5.72	2.75
Victoria ..	-0.03	-1.56	-9.30	10.42	4.85	2.32
Queensland ..	3.96	-4.14	-7.08	7.73	1.85	2.04
South Australia ..	1.98	-1.81	-15.72	11.05	6.77	3.75
Western Australia ..	3.06	-1.71	-9.76	6.78	..	-3.59
Tasmania ..	6.51	-6.40	-5.35	12.03	1.54	11.96
Australia ..	1.30	-3.01	-10.91	10.09	4.92	2.58

NOTE.—Minus sign (-) indicates decrease.

3. **Masculinity of Persons Employed in Factories.**—The extent to which females are employed in the factories of Australia may perhaps be more clearly shown by giving the masculinity of persons employed in each State. The following table shows particulars for the years 1938–39 and 1951–52 to 1955–56 :—

FACTORIES : MASCULINITY(a) OF PERSONS EMPLOYED.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938–39	271	208	432	445	415	420	271
1951–52	301	258	466	429	519	487	315
1952–53	330	279	501	502	587	506	345
1953–54	313	266	488	476	576	467	328
1954–55	307	265	490	465	602	478	325
1955–56	309	265	491	463	640	448	327

(a) Number of males per 100 females.

For a number of years prior to 1926–27, there were on the average 300 males employed in factories for every 100 females, but by 1932–33, as a result of the particularly severe effect of the depression on the heavier industries where males predominate in number, there were only 239 males employed to every 100 females. With the subsequent recovery of employment in the heavier industries, the proportion of males per 100 females increased to 271 in 1937–38 and 1938–39. The enlistment of men in the armed services and the expansion of industry and the consequential absorption of women brought about by the 1939–45 War caused a decrease in masculinity from 1938–39 to 1943–44. However, following the cessation of hostilities in 1945 and the return of servicemen to civilian life, the number of females employed in factories declined and masculinity increased. In 1955–56 there were 327 males to every 100 females employed in factories.

4. **Employment of Females in Particular Industries.**—(i) *General.* The majority of females in manufacturing industries are employed in four classes, namely :—IV., Industrial Metals, Machines, etc. ; VI., Textiles ; VIII., Clothing ; and IX., Food, Drink and Tobacco. In 1955–56, these industries accounted for 78.45 per cent. of all females in factories. In two classes only did the number of females exceed the number of males, namely, in Class VI., Textiles, where there were 136 females to every 100 males and in Class VIII., Clothing, with 237 females per 100 males. The following tables show the average number of males and females employed in each of these classes in 1955–56 :—

MALES AND FEMALES EMPLOYED IN PARTICULAR INDUSTRIES, 1955–56.

Class.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
IV. Industrial Metals, etc. ..	175,042	117,687	33,127	45,440	18,573	8,503	398,372
VI. Textiles and Textile Goods ..	9,465	16,103	742	1,211	484	1,008	29,013
(not Dress)	12,784	14,250	2,520	1,754	1,224	365	32,897
VIII. Clothing (except Knitted) ..	27,611	28,036	22,759	7,874	5,210	3,094	94,584
IX. Food, Drink and Tobacco ..	102,204	81,930	25,975	19,865	17,849	9,158	256,981
All Other Classes	327,106	258,006	85,123	76,144	43,340	22,128	811,847
Total							
FEMALES.							
IV. Industrial Metals, etc. ..	22,688	14,583	2,088	5,265	837	441	45,902
VI. Textiles and Textile Goods ..	13,858	20,792	1,356	1,253	415	1,669	39,343
(not Dress)	32,359	32,639	6,072	3,760	2,575	518	77,923
VIII. Clothing (except Knitted) ..	11,789	10,391	3,967	2,928	1,408	1,426	31,909
IX. Food, Drink and Tobacco ..	25,281	18,774	3,867	3,239	1,533	880	53,574
All Other Classes							
Total	105,975	97,179	17,350	16,445	6,768	4,934	248,651

(ii) *Females Employed in Clothing Manufacture.* The employment of females in the several industries of Class VIII., Clothing—in which class the largest number of females is employed—and the relation of their number to that of the males so employed are shown in the following table.

EMPLOYMENT IN CLOTHING INDUSTRIES, FEMININITY, 1955-56.

Industry.	New South Wales.			Victoria.			Other States.		
	Males.	Fe-males.	Femi-ninity. (a)	Males.	Fe-males.	Femi-ninity. (a)	Males.	Fe-males.	Femi-ninity. (a)
Tailoring and Ready-made Clothing ..	3,075	14,353	467	2,969	7,376	248	1,150	3,664	319
Waterproof and Oilskin Clothing ..	119	666	560	137	355	259	12	61	508
Dressmaking, Hemstitching ..	209	2,044	978	1,291	8,034	622	159	2,900	1,824
Millinery ..	241	1,344	558	195	789	405	37	432	1,168
Shirts, Collars, Underclothing ..	440	3,935	894	771	5,591	725	164	1,785	1,088
Foundation Garments ..	120	1,338	1,115	185	1,496	809	22	170	773
Handkerchiefs, Ties and Scarves ..	156	984	631	92	388	422	32	121	378
Hats and Caps ..	575	609	106	229	205	90	28	121	432
Gloves ..	117	333	285	32	185	578	33	125	379
Boots and Shoes (not Rubber) ..	3,474	3,669	106	5,349	5,590	105	1,889	1,526	81
Boot and Shoe Repairing ..	1,507	107	7	724	37	5	698	45	6
Boot and Shoe Accessories ..	198	94	47	381	225	59	47	8	17
Umbrellas and Walking Sticks ..	57	109	191	27	75	278	16	46	288
Dyeworks and Cleaning (including Renovating and Repairing) ..	2,443	2,421	99	1,766	1,930	109	1,576	1,921	122
Other ..	53	353	666	102	363	356	..	..	..
Total ..	12,784	32,359	253	14,250	32,639	229	5,863	12,925	220

(a) Number of females per 100 males.

§ 7. Child Labour in Factories.

1. **Conditions of Child Labour.**—The employment of young persons in factories in the States is regulated by Acts of Parliament, as is the case with the employment of female labour. The object of the restrictions imposed is to ensure, amongst other things, that a proper period shall be devoted to primary education, and that the early years of labour shall not exhaust the worker before the attainment of full growth.

2. **Number of Children Employed, 1939, 1955 and 1956.**—In the returns for the various States, the term "child" denotes any person under sixteen years of age. The decline in the number of children employed from the peak of 33,553 reached in June, 1940, to 15,618 in June, 1956, was probably caused by several factors, including (i) the raising of the school leaving age in New South Wales and Tasmania, (ii) fewer children available for employment owing to the decline in the birth rate and (iii) the high level of employment which enabled parents to keep their children at school beyond the statutory leaving age.

The following table shows the number of children of each sex employed in manufacturing industries in June of the years mentioned.

FACTORIES : CHILDREN(a) EMPLOYED, JUNE.

State.	1939.			1955.			1956.		
	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.
New South Wales	5,759	7,084	12,843	2,579	1,982	4,561	2,538	1,860	4,398
Victoria ..	6,167	5,005	11,172	2,908	2,381	5,289	2,888	2,338	5,226
Queensland ..	1,790	1,334	3,124	1,754	1,124	2,878	1,749	1,199	2,948
South Australia	1,296	1,053	2,349	855	723	1,578	872	723	1,595
Western Australia	705	521	1,226	876	319	1,195	901	361	1,262
Tasmania ..	392	500	892	121	76	197	113	76	189
Australia ..	16,109	15,497	31,606	9,093	6,605	15,698	9,061	6,557	15,618

(a) Under sixteen years of age.

3. **Industries Employing Child Labour.**—The distribution of children employed in factories in June, 1956 and the proportion of children employed to total employees are given in the following table according to the class of industry :—

FACTORIES : CHILDREN^(a) EMPLOYED, BY CLASSES, AUSTRALIA, JUNE, 1956.

Class of Industry.	Children Employed.		Total Employees. (b)		Proportion (per cent.) of Children Employed to Total Employees. (b)	
	Males.	Females.	Males.	Females.	Males.	Females.
Industrial Metals, Machines, Conveyances	4,186	775	387,352	45,090	1.08	1.72
Textiles and Textile Goods (not Dress)	499	1,256	28,775	39,156	1.73	3.21
Clothing (except Knitted)	546	2,575	27,344	75,780	2.00	3.40
Food, Drink and Tobacco	1,023	722	87,760	29,499	1.17	2.45
Sawmills, Joinery, Boxes, etc.	729	82	53,788	3,014	1.36	2.72
Furniture of Wood, Bedding, etc.	473	64	15,569	3,604	3.04	1.78
Paper, Stationery, Printing, Bookbinding	722	550	45,123	17,022	1.60	3.23
All other Industries	883	533	132,257	29,383	0.67	1.81
Total	9,061	6,557	777,968	242,548	1.16	2.70

(a) Under sixteen years of age.

(b) Excludes working proprietors.

4. **Apprenticeship.**—In all the States, Acts are in force 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.

§ 8. Salaries and Wages Paid and Value of Production.

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

1. **General.**—The importance of the manufacturing industries of Australia is indicated by the fact that the total value of their output for 1955–56 was £3,763,710,000, of which £2,125,819,000 was the value of the materials used, including containers, etc., tools replaced and repairs to plant and buildings, and £139,127,000 the value of the power, fuel and light used. The difference between the sum of the last two amounts and the value of output, namely, £1,498,764,000, represents the value of production as defined by the Conference of Statisticians at Sydney in 1925, i.e., “the value of consumable commodities produced during the year, deducting, so far as possible, the value of goods consumed in process of production.” The total amount of salaries and wages paid in factories in 1955–56 was £853,469,000. This figure, which excludes amounts drawn by working proprietors, was the highest ever recorded and shows an increase of £71,829,000 or 9.19 per cent. on that for the previous year.

2. **Salaries and Wages Paid.**—(i) *In Classes of Industry, 1955–56.* 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, 1955-56.
(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	7,587	5,654	1,408	1,724	1,510	602	18,485
II. Bricks, Pottery, Glass, etc. ..	10,413	5,122	985	1,843	1,336	323	20,022
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	18,437	15,317	1,358	2,891	2,705	461	41,169
IV. Industrial Metals, Machines, Conveyances ..	176,950	116,851	25,173	44,519	14,769	7,493	385,755
V. Precious Metals, Jewellery, Plate ..	1,698	1,971	193	322	154	13	4,351
VI. Textiles and Textile Goods (not Dress) ..	16,023	25,783	1,156	1,771	602	1,681	47,016
VII. Skins and Leather (not Clothing or Footwear) ..	4,366	3,944	899	1,082	504	57	10,852
VIII. Clothing (except Knitted) ..	26,112	28,286	4,066	2,983	1,805	506	63,758
IX. Food, Drink and Tobacco ..	30,305	30,651	21,224	7,850	4,771	3,410	98,211
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	15,938	11,712	7,113	3,732	4,653	2,745	45,893
XI. Furniture of Wood, Bedding, etc. ..	6,202	4,458	1,766	1,402	866	297	14,991
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	22,477	18,384	3,828	3,137	1,929	3,501	53,256
XIII. Rubber ..	6,935	6,328	1,281	915	165	143	15,767
XIV. Musical Instruments ..	1,137	240	23	22	18	..	1,440
XV. Miscellaneous Products ..	7,229	7,348	379	529	247	126	15,858
<i>Total, Classes I. to XV.</i>	<i>351,809</i>	<i>282,049</i>	<i>70,852</i>	<i>74,722</i>	<i>36,034</i>	<i>21,358</i>	<i>836,824</i>
XVI. Heat, Light and Power ..	7,214	4,895	1,608	1,515	1,173	240	16,645
Grand Total ..	359,023	286,944	72,460	76,237	37,207	21,598	853,469

(ii) *Totals and Averages, 1938-39 and 1951-52 to 1955-56.*—The following table shows the total amount of salaries and wages paid, and the average amount paid per employee in each State, for each of the years indicated. The figures exclude working proprietors and the amounts drawn by them :—

FACTORIES : TOTAL AND AVERAGE SALARIES AND WAGES PAID.

Year.	N.S.W.	Vic.	Qld.	S. Aust.	W. Aust.	Tas.	Aust.
TOTAL AMOUNT PAID (£'000).							
1938-39	44,606	36,027	10,887	8,169	4,574	2,480	106,743
1951-52	263,652	202,586	51,906	53,558	25,384	14,703	611,789
1952-53	265,910	210,878	57,591	56,546	28,344	15,976	635,245
1953-54	293,586	236,037	63,433	63,110	31,590	17,381	705,137
1954-55	326,615	262,750	68,300	70,373	34,738	18,864	781,640
1955-56	359,023	286,944	72,460	76,237	37,207	21,598	853,469
AVERAGE PER EMPLOYEE (£).							
1938-39	201.77	185.64	210.78	195.57	207.90	188.31	196.31
1951-52	673.13	650.79	576.57	656.54	594.67	637.29	650.61
1952-53	728.11	709.15	649.94	724.52	664.59	707.89	710.21
1953-54	758.65	743.29	678.35	761.27	703.26	734.60	742.62
1954-55	804.43	790.00	714.83	810.32	744.17	771.27	789.35
1955-56	860.91	841.16	740.93	848.43	785.23	828.65	837.35

In comparing the figures in the preceding 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 is employed in Class VIII., Clothing, comprising a relatively high percentage of women and children. The highest average wages per employee in 1955-56 were paid in New South Wales, South Australia and Victoria, in that order.

The average earnings per employee rose annually from 1938-39 to 1943-44 when a level of £291 was attained as a result of war-time conditions. In 1944-45, the average dropped to £285 and remained at this level in 1945-46. From 1945-46, average earnings rose each year and in 1955-56 reached a record level of over £837.

(iii) *Total and Average Earnings of Males and Females, 1938-39 and 1951-52 to 1955-56.* Particulars for these years are given in the table on the following page.

FACTORIES: TOTAL AND AVERAGE SALARIES AND WAGES—MALES AND FEMALES.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MALES.							
TOTAL AMOUNT PAID (£'000).							
1938-39	38,272	29,006	9,920	7,488	4,129	2,234	91,049
1951-52	220,885	163,688	46,087	47,194	22,870	13,056	513,780
1952-53	224,745	171,897	51,519	50,594	25,756	14,249	538,760
1953-54	245,749	190,573	56,608	56,299	28,684	15,320	593,233
1954-55	274,467	213,377	61,125	62,942	31,748	16,736	660,395
1955-56	302,880	234,784	64,918	68,213	34,236	19,146	724,177
AVERAGE PER MALE EMPLOYEE (£).							
1938-39	239.24	224.47	238.59	220.95	235.49	212.09	231.84
1951-52	756.84	736.68	625.91	716.25	643.68	687.09	725.57
1952-53	807.77	793.11	701.45	779.90	711.80	761.21	782.87
1953-54	844.05	833.71	733.34	824.49	754.20	791.86	820.98
1954-55	906.61	891.40	773.47	883.13	797.80	833.05	877.84
1955-56	967.45	955.00	802.89	925.47	839.62	904.78	933.92
FEMALES.							
TOTAL AMOUNT PAID (£'000).							
1938-39	6,334	7,021	967	681	445	246	15,694
1951-52	42,767	38,898	5,819	6,364	2,514	1,647	98,009
1952-53	41,165	38,981	6,072	5,952	2,588	1,727	96,485
1953-54	47,837	45,464	6,825	6,811	2,906	2,061	111,904
1954-55	52,148	49,373	7,175	7,431	2,990	2,128	121,245
1955-56	56,143	52,160	7,542	8,024	2,971	2,452	129,292
AVERAGE PER FEMALE EMPLOYEE (£).							
1938-39	103.66	108.25	96.00	86.44	99.58	93.19	103.92
1951-52	428.40	436.60	354.96	405.70	351.30	404.71	422.04
1952-53	473.28	483.46	400.48	451.80	400.32	448.58	467.79
1953-54	499.19	510.96	418.23	465.95	421.93	477.84	493.10
1954-55	514.94	529.63	431.68	477.12	434.21	487.12	509.56
1955-56	540.06	547.42	445.22	496.84	449.61	500.06	530.23

(iv) *Managers, Clerical Staff and Other Employees.* A further analysis of salaries and wages paid is given in the following table for 1955-56 and shows 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. As previously mentioned, amounts drawn by working proprietors are excluded in all cases:—

FACTORIES: SALARIES AND WAGES PAID TO MANAGERS, CLERICAL STAFF, ETC., AND OTHER EMPLOYEES, AUSTRALIA, 1955-56.

Class of Industry.	Managers, Clerical Staff, Chemists, Draftsmen, etc.		All Other Employees.	
	Males.	Females.	Males.	Females.
	£'000.	£'000.	£'000.	£'000.
I. Treatment of Non-metalliferous Mine and Quarry Products	2,157	349	15,868	111
II. Bricks, Pottery, Glass, etc.	1,630	403	17,333	656
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	8,910	1,887	26,406	3,966
IV. Industrial Metals, Machines, Conveyances	52,634	10,886	308,183	14,052
V. Precious Metals, Jewellery, Plate	478	167	3,259	447
VI. Textiles and Textile Goods (not Dress)	4,223	1,758	22,257	18,778
VII. Skins and Leather (not Clothing or Footwear)	1,238	249	7,856	1,509
VIII. Clothing (except Knitted)	4,223	2,168	20,191	37,176
IX. Food, Drink and Tobacco	12,055	3,391	69,865	12,900
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	4,441	946	39,956	550
XI. Furniture of Wood, Bedding, etc.	1,401	440	11,732	1,418
XII. Paper, Stationery, Printing, Bookbinding, etc.	6,669	2,209	37,808	6,570
XIII. Rubber	2,181	492	11,608	1,486
XIV. Musical Instruments	171	68	1,040	161
XV. Miscellaneous Products	2,122	698	9,729	3,309
<i>Total, Classes I. to XV.</i>	<i>104,533</i>	<i>26,111</i>	<i>603,091</i>	<i>103,089</i>
XVI. Heat, Light and Power	1,584	72	14,969	20
Grand Total..	106,117	26,183	618,060	103,109
Average paid per employee	1,247.84	571.66	895.25	520.65

3. **Power, Fuel and Light Used.**—(i) *In Classes of Industry, 1955–56.* The expenditure by factories on power, fuel and light, including the value of lubricants and water, is of considerable importance; in 1955–56 it amounted to a new high level of £139,127,000, an increase of £10,745,000 as compared with the previous year and over nine times the corresponding value in 1938–39. The following table shows the value of power, fuel and light, etc., used in the different classes of industry:—

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED(a), 1955–56.
(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	2,479	1,785	623	848	758	271	6,764
II. Bricks, Pottery, Glass, etc. ..	3,415	1,997	354	550	574	140	7,030
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	4,611	3,530	268	816	1,838	132	11,195
IV. Industrial Metals, Machines, Conveyances	25,738	5,525	1,580	4,717	888	1,407	39,855
V. Precious Metals, Jewellery, Plate	124	112	10	34	13	1	294
VI. Textiles and Textile Goods (not Dress)	1,407	1,848	56	184	46	143	3,684
VII. Skins and Leather (not Clothing or Footwear)	406	411	66	129	62	4	1,078
VIII. Clothing (except Knitted) ..	873	786	157	124	84	36	2,060
IX. Food, Drink and Tobacco ..	5,915	5,208	2,721	1,246	938	439	16,467
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	1,403	607	385	151	313	295	3,154
XI. Furniture of Wood, Bedding, etc.	164	93	40	38	23	6	364
XII. Paper, Stationery, Printing, Bookbinding, etc.	1,117	1,502	127	256	80	1,192	4,274
XIII. Rubber	948	888	143	97	18	17	2,111
XIV. Musical Instruments	70	12	(b)	(b)	(b)	..	82
XV. Miscellaneous Products	443	421	10	50	11	4	939
<i>Total, Classes I. to XV.</i>	<i>49,113</i>	<i>24,725</i>	<i>6,540</i>	<i>9,240</i>	<i>5,646</i>	<i>4,087</i>	<i>99,351</i>
XVI. Heat, Light and Power	17,456	9,873	5,440	3,590	3,407	10	39,776
Grand Total	66,569	34,598	11,980	12,830	9,053	4,097	139,127

(a) Includes value of lubricants and water.

(b) Less than £500.

(ii) *Values of Items, 1955–56.* The following table shows the values of the various items of power, fuel and light used in factories in each State, during the year:—

FACTORIES: VALUE OF ITEMS OF POWER, FUEL AND LIGHT USED(a), 1955–56.
(£'000.)

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black	21,230	2,712	6,514	(b) 3,623	2,956	1,242	38,277
" Brown .. ..	..	7,025	..	..	..	..	7,025
Brown Coal Briquettes .. ..	..	2,347	..	..	..	..	2,347
Coke	12,587	1,138	397	2,479	178	218	16,997
Wood	449	680	431	394	420	195	2,569
Fuel Oil	6,055	7,704	1,232	2,279	1,829	433	19,532
Tar (Fuel)	830	238	6	98	15	21	1,208
Electricity	17,763	9,122	2,490	2,946	1,920	1,671	35,912
Gas	3,053	911	137	238	77	36	4,452
Other (Charcoal, etc.)	1,582	789	123	297	1,247	121	4,159
Water	1,923	1,172	285	250	210	80	3,920
Lubricating Oils	1,097	760	365	226	201	80	2,729
Total	66,569	34,598	11,980	12,830	9,053	4,097	139,127

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

(b) Includes £1,028,000, the value of 417,000 tons

(iii) *Quantities of Fuel Used, 1955-56.* The following table shows the quantities of fuel used in factories in each State during the year:—

FACTORIES: QUANTITIES OF FUEL USED, 1955-56.

Particulars.	Unit.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal, Black	'000 tons	5,394	411	1,544	(a) 840	586	249	9,024
" Brown	"	"	8,551	"	"	"	"	8,551
Brown Coal Briquettes ..	"	"	487	"	"	"	"	487
Coke	"	2,051	142	37	261	22	14	2,527
Wood	"	208	377	255	159	330	98	1,427
Fuel Oil	'000 gals.	96,956	132,901	15,820	44,769	27,127	5,650	323,223
Tar (Fuel)	"	28,182	4,893	226	2,600	503	453	36,857

(a) Includes 417,000 tons of Leigh Creek coal.

(iv) *Total Value, 1938-39 and 1951-52 to 1955-56.* The next table shows the amounts expended on power, fuel and light during these years:—

FACTORIES: VALUE OF POWER, FUEL AND LIGHT USED.(a)
(£'000.)

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Australia.
1938-39	7,652	4,000	1,423	1,018	1,169	438	15,700
1951-52	48,664	21,990	8,286	10,409	5,173	2,107	96,629
1952-53	53,630	25,626	9,624	11,806	6,175	2,476	109,337
1953-54	58,447	29,080	10,655	12,500	6,972	2,804	120,458
1954-55	60,925	31,767	11,620	12,897	8,046	3,127	128,382
1955-56	66,569	34,598	11,980	12,830	9,053	4,097	139,127

(a) Includes value of lubricants and water.

4. *Value of Materials Used.—(i) In Classes of Industry, 1955-56.* 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 1955-56 reached £2,125,819,000, representing 56.5 per cent. of the value of the final output (*see para. 5*). The following table shows the value of the materials used in various classes of industry in each State:—

FACTORIES: VALUE OF MATERIALS USED, 1955-56.
(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	25,428	10,984	3,122	4,005	2,685	1,139	47,363
II. Bricks, Pottery, Glass, etc. ..	9,090	5,216	604	1,831	826	210	17,777
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	84,426	77,018	7,169	11,739	27,856	1,413	209,621
IV. Industrial Metals, Machines, Conveyances	377,194	182,134	46,079	95,148	18,337	17,211	736,103
V. Precious Metals, Jewellery, Plate	1,794	2,660	102	260	75	5	4,896
VI. Textiles and Textile Goods (not Dress)	40,130	61,582	4,158	4,106	2,946	4,555	117,477
VII. Skins and Leather (not Clothing or Footwear)	12,727	11,092	2,881	5,760	1,234	109	33,803
VIII. Clothing (except Knitted) ..	44,522	47,467	5,827	3,242	2,185	319	103,562
IX. Food, Drink and Tobacco ..	158,062	165,265	130,426	34,854	26,491	15,557	530,655
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	37,268	24,671	14,643	10,683	7,474	5,684	100,423
XI. Furniture of Wood, Bedding, etc.	12,423	8,634	3,545	2,646	1,769	438	29,455
XII. Paper, Stationery, Printing, Bookbinding, etc.	42,360	38,803	6,114	5,017	2,867	6,575	101,736
XIII. Rubber	19,366	17,457	4,001	1,454	302	189	42,769
XIV. Musical Instruments	2,007	262	12	5	2	"	2,288
XV. Miscellaneous Products	11,405	15,378	473	819	303	73	28,451
<i>Total, Classes I. to XV.</i>	878,202	668,623	229,156	181,569	95,352	53,477	2,106,379
XVI. Heat, Light and Power	7,880	6,223	2,428	1,627	1,008	274	19,440
Grand Total	886,082	674,846	231,584	183,196	96,360	53,751	2,125,819

(ii) *Total Amount, 1938-39 and 1951-52 to 1955-56.* The following table shows the values of materials used in factories for these years:—

FACTORIES: VALUE OF MATERIALS USED.
(£'000.)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39	120,502	82,971	42,596	20,309	9,604	5,321	281,303
1951-52	647,291	477,617	150,427	139,198	58,652	40,025	1,513,210
1952-53	627,954	476,489	187,572	133,818	63,943	38,029	1,527,805
1953-54	721,311	548,111	211,451	152,590	72,468	42,042	1,747,973
1954-55	802,617	616,666	224,336	169,136	80,583	47,360	1,940,698
1955-56	886,082	674,846	231,584	183,196	96,360	53,751	2,125,819

5. *Value of Output.*—(i) *In Classes of Industry, 1955-56.* The value of the output of factories in the various classes in each State in 1955-56 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 real value of factory production (*see para. 6*).

FACTORIES: VALUE OF OUTPUT, 1955-56.
(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	41,859	23,176	6,430	8,638	6,031	2,536	88,670
II. Bricks, Pottery, Glass, etc. ..	29,077	15,075	2,725	5,507	3,541	790	56,715
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	143,943	120,507	11,356	19,779	41,790	2,604	339,979
IV. Industrial Metals, Machines, Conveyances ..	682,366	361,813	88,146	163,947	41,191	33,857	1,371,320
V. Precious Metals, Jewellery, Plate ..	4,869	6,148	429	815	381	27	12,669
VI. Textiles and Textile Goods (not Dress) ..	68,529	108,719	6,204	7,242	4,122	7,795	202,611
VII. Skins and Leather (not Clothing or Footwear) ..	19,816	17,942	4,381	7,506	2,026	193	51,864
VIII. Clothing (except Knitted) ..	88,343	93,070	12,495	7,895	5,171	1,116	208,090
IX. Food, Drink and Tobacco ..	231,758	230,694	173,738	49,340	36,992	22,398	744,920
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	66,674	45,143	27,118	16,908	15,239	10,988	182,070
XI. Furniture of Wood, Bedding, etc. ..	22,540	16,648	6,407	4,925	3,251	944	54,715
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	85,214	72,606	12,833	11,063	6,599	16,745	205,060
XIII. Rubber ..	30,147	29,771	6,628	3,087	691	450	70,774
XIV. Musical Instruments ..	4,224	651	47	36	28	..	4,986
XV. Miscellaneous Products ..	24,475	29,132	1,090	1,867	734	262	57,560
<i>Total, Classes I. to XV.</i>	<i>1,543,834</i>	<i>1,171,095</i>	<i>360,027</i>	<i>308,555</i>	<i>167,787</i>	<i>100,705</i>	<i>3,652,003</i>
XVI. Heat, Light and Power ..	50,953	30,297	11,617	8,407	7,359	3,074	111,707
Grand Total ..	1,594,787	1,201,392	371,644	316,962	175,146	103,779	3,763,710

(ii) *Total, 1938-39 and 1951-52 to 1955-56.* The following table shows the value of output in each State during these years :—

FACTORIES: VALUE OF OUTPUT.

(£'000.)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39	218,420	152,967	63,321	35,005	19,549	11,158	500,420
1951-52	1,139,346	833,967	250,043	232,853	106,571	71,926	2,634,706
1952-53	1,139,326	860,147	295,405	234,813	119,310	71,003	2,720,004
1953-54	1,299,801	985,505	332,361	265,311	134,587	77,911	3,095,476
1954-55	1,446,669	1,100,656	356,017	293,061	149,585	88,601	3,434,589
1955-56	1,594,787	1,201,392	371,644	316,962	175,146	103,779	3,763,710

6. *Value of Production.*—(i) *In Classes of Industry, 1955-56.* 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”. All these deductions with the exception of depreciation are included in the items “value of materials used” and “value of fuel used” as defined above. On account of the difficulty experienced in securing accurate figures for depreciation, it was agreed that no deduction should be made on this account for the present. The value of production as given in the following tables is obtained therefore, by deducting “value of materials used” and “value of fuel used” from the “value of output”.

The figure thus calculated is, however, not the net value of production. The amount of depreciation, particulars of which are shown in § 9, para. 4, was recorded as £67,939,000 for 1955-56. Many miscellaneous expenses, such as taxation, insurance, advertising and other sundry charges, have not been taken into account. Therefore, it must not 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.

The value of factory production, therefore, approximates “net value added” in the manufacturing process. It amounted in 1955-56 to £1,499 million to which Class IV., Industrial Metals, etc., with £595 million made the greatest contribution. The total value of production in 1955-56 showed an increase of £133 million (9.74 per cent.) over the figure for 1954-55 and £1,295 million over the value of production recorded in 1938-39.

The following table shows the value of production in 1955-56 in each State for the various classes of industry.

FACTORIES: VALUE OF PRODUCTION, 1955-56.
(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	13,952	10,407	2,685	3,785	2,588	1,126	34,543
II. Bricks, Pottery, Glass, etc. ..	16,572	7,862	1,767	3,126	2,141	440	31,908
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	54,906	39,959	3,919	7,224	12,096	1,059	119,163
IV. Industrial Metals, Machines, Conveyances ..	279,434	174,154	40,487	64,082	21,966	15,239	595,362
V. Precious Metals, Jewellery, Plate ..	2,951	3,376	317	521	293	21	7,479
VI. Textiles and Textile Goods (not Dress) ..	26,992	45,289	1,990	2,952	1,130	3,097	81,450
VII. Skins and Leather (not Clothing or Footwear) ..	6,683	6,439	1,434	1,617	730	80	16,983
VIII. Clothing (except Knitted) ..	42,948	44,817	6,511	4,529	2,902	761	102,468
IX. Food, Drink and Tobacco ..	67,781	60,221	40,591	13,240	9,563	6,402	197,798
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	28,003	19,865	12,090	6,074	7,452	5,009	78,493
XI. Furniture of Wood, Bedding, etc. ..	9,953	7,921	2,822	2,241	1,459	500	24,896
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	41,737	32,301	6,592	5,790	3,652	8,978	99,050
XIII. Rubber ..	9,833	11,426	2,484	1,536	371	244	25,894
XIV. Musical Instruments ..	2,147	377	35	31	26		2,616
XV. Miscellaneous Products ..	12,627	13,333	607	998	420	185	28,170
Total, Classes I. to XV.	616,519	477,747	124,331	117,746	66,789	43,141	1,446,273
XVI. Heat, Light and Power ..	25,617	14,201	3,749	3,190	2,944	2,790	52,491
Grand Total ..	642,136	491,948	128,080	120,936	69,733	45,931	1,498,764

(ii) *Total and Averages, 1938-39 and 1951-52 to 1955-56.* The value of production and the amount per person employed and per head of population are shown in the following table. For Australia as a whole, the value of production per head of population increased from £29.34 per head in 1938-39 to £160.89 per head in 1955-56. For value per person employed, the increase was not quite so pronounced (from £360 per head in 1938-39 to £1,413 in 1955-56).

FACTORIES: VALUE OF PRODUCTION.

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
VALUE. (£'000.)							
1938-39 ..	90,266	65,996	19,302	13,678	8,776	5,399	203,417
1951-52 ..	443,391	334,360	91,330	83,246	42,746	29,794	1,024,867
1952-53 ..	457,742	358,032	98,209	89,189	49,192	30,498	1,082,862
1953-54 ..	520,043	408,314	110,255	100,221	55,147	33,065	1,227,045
1954-55 ..	583,127	452,223	120,061	111,028	60,956	38,114	1,365,509
1955-56 ..	642,136	491,948	128,080	120,936	69,733	45,931	1,498,764
PER PERSON EMPLOYED. (£.)							
1938-39 ..	395	327	357	315	378	391	360
1951-52 ..	1,092	1,032	968	992	947	1,240	1,048
1952-53 ..	1,204	1,152	1,055	1,108	1,089	1,298	1,160
1953-54 ..	1,292	1,233	1,124	1,172	1,162	1,345	1,240
1954-55 ..	1,389	1,305	1,197	1,240	1,236	1,497	1,324
1955-56 ..	1,483	1,385	1,250	1,306	1,392	1,697	1,413
PER HEAD OF POPULATION. (£.)							
1938-39 ..	33.00	35.25	19.14	22.98	18.80	22.72	29.34
1951-52 ..	132.12	145.28	74.79	114.14	72.31	99.79	120.02
1952-53 ..	133.84	151.55	78.64	119.00	80.28	98.72	123.79
1953-54 ..	152.70	168.53	84.78	127.50	87.44	106.85	137.86
1954-55 ..	168.56	181.75	90.59	137.50	93.93	121.78	150.22
1955-56 ..	182.20	191.80	94.69	144.93	104.23	143.90	160.89

7. **Value of Output and Cost of Production.**—As the total value of the output for Australia for 1955–56 was recorded as £3,763,710,000, there remained, after payment of £2,125,819,000 for the value of the materials used, £853,469,000 for salaries and wages and £139,127,000 for power, fuel and light, a balance of £645,295,000 to provide for all other costs and overhead expenses such as rent, interest, insurance, pay-roll tax, income tax, depreciation, etc., as well as drawings by working proprietors and profit. The following table gives corresponding particulars for each State for the year 1955–56:—

FACTORIES: VALUE OF OUTPUT AND COST OF PRODUCTION, 1955-56.

State.	Materials Used. (a)	Power, Fuel and Light. (b)	Salaries and Wages.	Balance. (Output less Materials, Fuel and Wages.)(c)	Total Value of Output.
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VALUE AND COST, ETC.

(£'000.)

New South Wales	886,082	66,569	359,023	283,113	1,594,787
Victoria	674,846	34,598	286,944	205,004	1,201,392
Queensland	231,584	11,980	72,460	55,620	371,644
South Australia	183,196	12,830	76,237	44,699	316,962
Western Australia	96,360	9,053	37,207	32,526	175,146
Tasmania	53,751	4,097	21,598	24,333	103,779
Australia	2,125,819	139,127	853,469	645,295	3,763,710

(a) Includes the value of containers, packing, etc., also the cost of tools replaced and repairs to plant.
(b) Includes lubricants and water. (c) See paragraph preceding this table.

§ 9. Value of Land, Buildings, Plant and Machinery.

1. **General.**—The following statement shows the value of land and buildings and of plant and machinery used in connexion with manufacturing industries during the year 1955–56:—

FACTORIES: VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY(a), 1955-56.

(£'000.)

Value of—	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Land and buildings	260,268	214,921	52,602	48,353	32,859	46,579	655,582
Plant and machinery	298,913	258,295	85,777	63,596	56,534	40,425	803,540
Total ..	559,181	473,216	138,379	111,949	89,393	87,004	1,459,122

(a) 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. The totals shown in the table consequently do not represent the actual amount of capital invested in the items specified.

2. **Value of Land and Buildings.**—(i) *Total for Australia.* The following table shows for Australia as a whole, the approximate value of land and buildings occupied in connexion with manufacturing industries for 1938–39, and 1951–52 to 1955–56.

FACTORIES: VALUE OF LAND AND BUILDINGS(a), AUSTRALIA.
(£'000.)

Class of Industry.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	2,779	6,905	7,431	8,091	9,103	11,228
II. Bricks, Pottery, Glass, etc. ..	2,953	6,761	7,723	8,535	9,849	11,301
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	7,377	25,262	30,996	36,931	44,658	61,863
IV. Industrial Metals, Machines, Conveyances ..	34,841	117,513	137,724	159,325	184,934	218,667
V. Precious Metals, Jewellery, Plate ..	633	2,037	2,311	2,523	2,888	3,233
VI. Textiles and Textile Goods (not Dress) ..	6,000	20,845	22,482	25,443	29,651	31,931
VII. Skins and Leather (not Clothing or Footwear) ..	2,096	5,382	5,734	6,072	6,452	6,288
VIII. Clothing (except Knitted) ..	10,624	24,768	26,359	28,584	31,163	33,920
IX. Food, Drink and Tobacco ..	33,273	68,916	78,278	86,625	94,070	108,335
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	4,107	14,505	16,361	18,297	21,225	23,141
XI. Furniture of Wood, Bedding, etc. ..	2,533	6,812	7,256	8,069	8,981	9,915
XII. Paper, Stationery, Printing, Book-binding, etc. ..	10,639	24,691	27,284	30,444	34,156	40,256
XIII. Rubber ..	1,676	4,620	5,530	6,668	7,430	8,581
XIV. Musical Instruments ..	105	380	398	468	528	621
XV. Miscellaneous Products ..	1,433	6,266	6,705	7,570	8,299	9,946
<i>Total, Classes I. to XV. ..</i>	<i>121,069</i>	<i>335,663</i>	<i>382,572</i>	<i>433,645</i>	<i>493,387</i>	<i>579,226</i>
XVI. Heat, Light and Power ..	9,851	23,827	31,874	49,786	62,609	76,356
Grand Total	130,920	359,490	414,446	483,431	555,996	655,582

(a) Includes estimated value of rented premises.

(ii) *In Classes of Industry in States, 1955-56.* The following table gives particulars of the various classes of industry in each State.

FACTORIES: VALUE OF LAND AND BUILDINGS(a), 1955-56.
(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	4,122	3,309	837	824	1,520	616	11,228
II. Bricks, Pottery, Glass, etc. ..	5,634	2,624	717	913	1,202	211	11,301
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	30,629	21,737	1,258	2,596	4,652	991	61,863
IV. Industrial Metals, Machines, Conveyances ..	97,372	70,716	13,554	19,745	9,623	7,657	218,667
V. Precious Metals, Jewellery, Plate ..	1,165	1,538	112	230	167	21	3,233
VI. Textiles and Textile Goods (not Dress) ..	11,079	18,079	676	863	565	669	31,931
VII. Skins and Leather (not Clothing or Footwear) ..	2,581	2,468	290	587	244	118	6,288
VIII. Clothing (except Knitted) ..	14,691	13,239	2,308	1,733	1,500	449	33,920
IX. Food, Drink and Tobacco ..	35,113	35,345	18,303	8,644	6,976	3,954	108,335
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	9,360	6,154	2,238	2,309	1,930	1,150	23,141
XI. Furniture of Wood, Bedding, etc. ..	3,823	3,367	1,057	745	716	207	9,915
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	16,781	14,462	2,281	1,904	1,259	3,569	40,256
XIII. Rubber ..	3,345	3,570	856	417	277	116	8,581
XIV. Musical Instruments ..	417	166	6	12	20	..	621
XV. Miscellaneous Products ..	4,443	4,644	209	341	225	84	9,946
<i>Total, Classes I. to XV. ..</i>	<i>240,555</i>	<i>201,418</i>	<i>44,702</i>	<i>41,863</i>	<i>30,876</i>	<i>19,812</i>	<i>579,226</i>
XVI. Heat, Light and Power ..	19,713	13,503	7,900	6,490	1,983	26,767	76,356
Grand Total	260,268	214,921	52,602	48,353	32,859	46,579	655,582

(a) Includes estimated value of rented premises.

(iii) *Totals in each State.* The following table shows the value of land and buildings in each State for the years 1938-39 and 1951-52 to 1955-56 :—

FACTORIES : VALUE OF LAND AND BUILDINGS.(a)

(£'000.)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39	57,353	42,026	12,299	8,711	6,814	3,717	130,920
1951-52	153,662	119,465	28,610	28,507	16,747	12,499	359,490
1952-53	176,576	135,324	34,720	31,904	20,960	14,962	414,446
1953-54	196,724	158,389	40,003	36,579	24,739	26,997	483,431
1954-55	221,519	186,324	46,187	42,133	30,230	29,603	555,996
1955-56	260,268	214,921	52,602	48,353	32,859	46,579	655,582

(a) Includes estimated value of rented premises.

Prior to 1929-30, the increase in the value of land and buildings was uninterrupted, rising from £23 million in 1903 to £118 million in 1929-30, a growth of £95 million in 27 years. During the three years ended 1932-33, there was a decline of £12 million to £105.8 million, but since that year the value has risen annually and it stood at £655.6 million in 1955-56.

3. *Value of Plant and Machinery.*—(i) *Total for Australia, 1938-39 and 1951-52 to 1955-56.* The following table shows for Australia the approximate value of plant and machinery used in factories.

FACTORIES : VALUE OF PLANT AND MACHINERY(a), AUSTRALIA.

(£'000.)

Class of Industry.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	7,028	11,911	16,155	17,829	20,625	23,512
II. Bricks, Pottery, Glass, etc. ..	3,145	7,461	8,811	9,741	11,000	12,319
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	6,754	30,559	39,024	53,528	97,508	125,016
IV. Industrial Metals, Machines, Conveyances ..	33,038	112,940	131,857	148,178	168,651	202,286
V. Precious Metals, Jewellery, Plate	197	955	1,012	1,002	1,094	1,219
VI. Textiles and Textile Goods (not Dress) ..	6,658	23,973	25,030	27,567	29,658	31,155
VII. Skins and Leather (not Clothing or Footwear) ..	973	3,642	3,894	4,034	4,153	4,225
VIII. Clothing (except Knitted) ..	2,557	10,403	11,181	12,363	13,452	14,340
IX. Food, Drink and Tobacco ..	32,101	66,712	77,512	90,624	101,700	115,904
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving ..	3,907	15,869	17,851	19,002	21,827	23,626
XI. Furniture of Wood, Bedding, etc.	728	2,483	2,692	2,870	3,186	3,388
XII. Paper, Stationery, Printing, Book- binding, etc. ..	9,188	33,613	38,129	41,866	46,129	51,405
XIII. Rubber ..	1,368	4,171	4,875	5,677	6,843	8,971
XIV. Musical Instruments ..	12	302	305	458	444	509
XV. Miscellaneous Products ..	758	4,674	5,075	5,968	6,614	7,459
<i>Total, Classes I. to XV. ..</i>	<i>108,412</i>	<i>329,668</i>	<i>383,403</i>	<i>440,707</i>	<i>532,884</i>	<i>625,334</i>
XVI. Heat, Light and Power ..	35,250	80,476	110,131	140,008	165,408	178,206
Grand Total	143,662	410,144	493,534	580,715	698,292	803,540

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

Except for the years 1930-31 to 1933-34, when decreases were recorded, there has been a continuous increase in the value of plant and machinery in factories in Australia. The increase in 1955-56 of £105.2 million over 1954-55 extended over all industrial classes. The greatest increase occurred in Class IV., Industrial Metals, Machines, Conveyances.

(ii) *Totals in each State.* The following table shows the value of plant and machinery in each State during the years 1938–39 and 1951–52 to 1955–56. During 1955–56 increases occurred in all States, New South Wales showing the largest increase, £40.3 million.

FACTORIES : VALUE OF PLANT AND MACHINERY.(a)
(£'000.)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938–39	62,693	38,627	18,095	9,750	8,095	6,402	143,662
1951–52	166,437	128,934	41,290	32,177	20,716	20,590	410,144
1952–53	207,733	147,365	51,670	40,111	24,035	22,620	493,534
1953–54	233,022	181,058	64,160	46,788	28,195	27,492	580,715
1954–55	258,596	226,347	76,367	52,145	34,958	29,879	698,292
1955–56	298,913	258,295	85,777	63,596	56,534	40,425	803,540

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

(iii) *Value according to Class of Industry, 1955–56.* The following table shows the value of plant and machinery used in factories in each State during 1955–56 according to class of industry.

FACTORIES : VALUE OF PLANT AND MACHINERY(a), 1955–56.
(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products	11,030	4,586	2,330	2,876	2,049	641	23,512
II. Bricks, Pottery, Glass, etc. ..	6,229	2,854	995	798	1,234	209	12,319
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease	43,506	46,930	1,901	5,654	24,348	2,677	125,016
IV. Industrial Metals, Machines, Conveyances	104,347	53,270	9,350	20,545	5,778	8,996	202,286
V. Precious Metals, Jewellery, Plate	480	544	37	100	50	8	1,219
VI. Textiles and Textile Goods (not Dress)	10,459	17,951	943	556	411	835	31,155
VII. Skins and Leather (not Clothing or Footwear)	1,728	1,469	370	426	195	37	4,225
VIII. Clothing (except Knitted) ..	5,412	6,165	1,137	873	560	193	14,340
IX. Food, Drink and Tobacco ..	32,323	32,253	34,719	7,868	5,528	3,213	115,904
X. Sawmills, Joinery, Boxes, etc., Wood Turning and Carving	8,207	5,228	3,574	1,731	2,290	2,596	23,626
XI. Furniture of Wood, Bedding, etc.	1,193	1,056	462	348	256	73	3,388
XII. Paper, Stationery, Printing, Bookbinding, etc.	15,386	20,581	2,843	2,607	1,558	8,430	51,405
XIII. Rubber	2,870	4,846	616	402	145	92	8,971
XIV. Musical Instruments	413	89	3	1	3	..	509
XV. Miscellaneous Products	2,876	4,045	112	319	80	27	7,459
<i>Total, Classes I. to XV. ..</i>	<i>246,459</i>	<i>201,857</i>	<i>59,392</i>	<i>45,104</i>	<i>44,485</i>	<i>28,027</i>	<i>625,334</i>
XVI. Heat, Light and Power	52,454	56,428	26,385	18,492	12,049	12,398	178,206
Grand Total	298,913	258,295	85,777	63,596	56,534	40,425	803,540

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

4. *Depreciation of Land and Buildings and Plant and Machinery, 1955–56.*—The following table shows the allowance made for the depreciation of land and buildings and plant and machinery used in connexion 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, 1955-56.**

(£'000.)

Class of Industry.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
I. Treatment of Non-metalliferous Mine and Quarry Products ..	1,204	412	255	332	155	28	2,386
II. Bricks, Pottery, Glass, etc. ..	618	306	134	94	121	28	1,301
III. Chemicals, Dyes, Explosives, Paints, Oils, Grease ..	3,700	3,586	242	625	2,532	418	11,103
IV. Industrial Metals, Machines, Conveyances ..	9,740	5,199	955	2,387	530	955	19,766
V. Precious Metals, Jewellery, Plate ..	32	43	3	6	3	..	87
VI. Textiles and Textile Goods (not Dress) ..	1,052	2,005	74	70	47	91	3,339
VII. Skins and Leather (not Clothing or Footwear) ..	116	106	24	36	12	1	295
VIII. Clothing (except Knitted) ..	471	479	82	55	48	22	1,157
IX. Food, Drink and Tobacco ..	2,789	3,334	2,827	663	505	330	10,448
X. Sawmills, Joinery, Boxes, etc. Wood Turning and Carving ..	757	510	318	171	208	318	2,282
XI. Furniture of Wood, Bedding, etc. ..	99	71	43	27	23	3	266
XII. Paper, Stationery, Printing, Bookbinding, etc. ..	1,290	2,142	249	183	165	687	4,716
XIII. Rubber ..	742	630	125	72	25	13	1,607
XIV. Musical Instruments ..	41	8	..	..	..	..	49
XV. Miscellaneous Products ..	307	603	10	30	10	2	962
<i>Total, Classes I. to XV.</i>	<i>22,958</i>	<i>19,434</i>	<i>5,341</i>	<i>4,751</i>	<i>4,384</i>	<i>2,896</i>	<i>59,764</i>
XVI. Heat, Light and Power ..	5,141	255	1,254	562	732	231	8,175
Grand Total ..	28,099	19,689	6,595	5,313	5,116	3,127	67,939

5. Land and Buildings, Plant and Machinery—Values, Additions and Replacements, Depreciation, 1938-39 and 1951-52 to 1955-56.—The following table summarizes the recorded totals for Australia, in this section, and also includes particulars of additions and replacements.

**FACTORIES : VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY,
AUSTRALIA.**

(£'000.)

Year.	Book Values as at 30th June.(a)		Additions and Replacements during year.		Depreciation allowed during year.	
	Land and Buildings.	Plant and Machinery.	Land and Buildings.	Plant and Machinery.	Land and Buildings.	Plant and Machinery.
1938-39 ..	130,920	143,662	5,578	17,781	1,911	8,736
1951-52 ..	359,490	410,144	37,702	96,370	3,634	30,479
1952-53 ..	414,446	493,534	48,006	119,790	4,683	33,039
1953-54 ..	483,431	580,715	55,668	128,453	5,673	41,524
1954-55 ..	555,996	698,292	58,311	170,762	6,568	49,916
1955-56 ..	655,582	803,540	82,808	156,535	8,030	59,909

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

§ 10. Principal Factory Products.

The factory production of certain commodities is shown in the monthly and quarterly publications of this Bureau and in the bulletin *Secondary Industries*.

The following table shows the total recorded production of some of the principal articles manufactured in Australia during the years ended 30th June, 1954 to 1956. A more complete list, together with values, where available, is published in the bulletin *Secondary Industries*.

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES : AUSTRALIA.

Article.	Unit of Quantity.	1953-54.	1954-55.	1955-56.
Acid—				
Nitric	Ton	11,501	11,777	14,216
Sulphuric	"	731,897	835,146	896,472
Aerated and Carbonated Waters	'000 gals.	56,624	59,648	60,852
Asbestos Cement Building Sheets	'000 sq. yds.	26,074	28,077	26,679
Bacon and Ham	'000 lb.	75,379	78,820	75,641
Bags, Leather, Fibre, etc.—				
Handbags—				
Leather	No.	957,810	935,001	848,144
Plastic	"	470,379	591,485	800,217
Other	"	134,873	125,298	122,228
School Bags	"	137,316	104,993	102,338
Suitcases(a)	"	1,165,399	1,241,906	1,311,676
Trunks	"	2,902	1,348	1,204
All other	"	253,590	335,575	292,042
Baking Powder	lb.	771,227	701,395	617,101
Bath Heaters—				
Electric	No.	19,045	17,886	17,076
Gas	"	27,360	27,626	27,560
Solid Fuel	"	42,325	41,191	40,532
Bathing Suits	Doz.	156,509	222,473	228,089
Baths, C.I.P.E.	No.	89,387	117,414	104,998
Batteries, Wet Cell type	"	1,398,985	1,501,788	1,403,127
Beer (excluding Waste Beer)	'000 gals.	208,557	221,679	227,496
Biscuits	'000 lb.	150,475	150,816	158,554
Blankets	'000	1,202	1,532	1,554
Boots, Shoes and Slippers (not Rubber)—				
Boots and Shoes	'000 pairs	18,582	17,901	18,006
Sandals	"	1,895	1,980	1,809
Slippers	"	8,633	7,324	7,977
Bran (Wheaten)	Ton (2,000 lb.)	274,307	272,455	277,638
Brasieres	Doz.	416,889	404,893	421,142
Bricks, Clay	'000	801,998	838,579	840,343
Brooms	Gross	18,539	19,715	19,862
Brushes (b)	"	82,257	86,531	87,594
Butter	Ton	156,117	188,010	205,791
Candles	Cwt.	8,611	10,369	10,011
Cardigans, Sweaters, etc.	Doz.	996,701	1,029,250	1,051,285
Cement, Portland	Ton.	1,700,127	1,919,802	2,034,554
Cheese	"	49,043	45,178	38,681
Cigarettes	'000 lb.	18,303	22,859	27,162
Cleansing and Scouring Powders—				
Soap based (Incl. Sand Soap)	Cwt.	121,232	115,350	105,046
Other	"	(c)	43,823	72,230
Cloth—				
Cotton	'000 sq. yds.	33,618	34,424	40,151
Woolen and Worsted (d)	"	35,027	31,067	30,279
Coke—				
Metallurgical	Ton	2,010,404	2,046,790	2,058,426
Other	"	943,344	1,099,859	1,031,135
Confectionery—				
Chocolate	'000 lb.	62,599	56,994	62,405
Other	"	76,872	81,506	83,069
Coppers—				
Electric	No.	29,935	28,381	27,075
Gas	"	28,047	27,400	27,480
Inserts (all types)	"	85,300	86,487	68,827
Cordials and Syrups	'000 gals.	3,967	4,537	4,596
Corsets and Corsetslets	Doz.	155,408	141,265	156,837
Cosmetic Creams and Lotions—				
Face Creams	Cwt.	5,412	5,110	4,706
Hand Creams and Lotions	"	4,800	6,175	7,141
Other Skin Creams and Lotions	"	9,102	8,221	6,066
Custard Powder	'000 lb.	6,155	5,535	5,942
Cycles, Assembled	No.	85,063	91,125	89,033

(a) Includes Kitbags.
available.

(b) Excludes Tooth and Industrial Metal and Bristle.
(d) Includes Mixtures.

(c) Not

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES :
AUSTRALIA—continued.

Article.	Unit of Quantity.	1953-54.	1954-55.	1955-56.
Dynos—				
Alternators	No.	293	264	289
Generators	"	9,331	8,473	6,394
Electricity	Mill. kWh	13,707	15,172	16,670
Enamels, Natural and Synthetic	'000 gals.	2,699	3,642	4,126
Engines—				
Diesel, other than Marine	No.	3,787	2,667	2,757
Petrol—				
Marine	"	1,357	1,380	1,246
Other (a)	"	23,680	45,608	100,585
Essences, Flavouring—				
Domestic	Gal.	103,804	116,577	118,642
Industrial	"	237,312	270,348	319,591
Face Powder	Cwt.	3,396	4,336	2,694
Fans, Electric	No.	42,283	63,265	127,659
Fats, Edible—				
Dripping	Cwt.	357,802	367,517	360,835
Other	"	264,267	291,989	369,712
Fibrous Plaster Sheets	'000 sq. yds.	16,185	17,784	18,125
Fish, Tinned (including Fish Loaf) ..	'000 lb.	6,605	6,646	6,008
Floorboards—				
Australian Timber	'000 super. ft.	110,536	115,640	118,502
Imported Timber	"	3,845	4,474	2,973
Flour, Self-raising	Cwt.	1,116,278	1,102,480	1,090,005
Flour, Wheaten (b)	Ton (2,000 lb.)	1,609,058	1,553,019	1,571,305
Fruit Juices—Natural	'000 gals.	3,161	2,874	3,016
Gas	Mill. cubic ft.	42,100	43,465	44,578
Gloves—				
Dress—				
Leather	Doz. pairs	12,113	6,454	4,115
Other	"	112,892	58,749	52,035
Work, all types	"	214,596	269,408	293,874
Golf Clubs	Doz.	15,563	14,861	12,781
Handkerchiefs—				
Men's	"	1,234,162	1,313,327	1,181,261
Women's	"	1,538,067	1,375,669	1,264,711
Hats and Caps	"	530,521	510,382	483,817
Hose, Rubber—Garden	'000 lin. ft.	5,420	5,071	3,131
Other	"	7,111	9,716	9,449
Plastic—Garden	"	29,887	24,893	25,475
Ice	Ton	877,803	766,557	601,027
Ice Cream	'000 gals.	13,678	14,796	16,018
Iron and Steel—				
Pig Iron	'000 tons	1,827	1,869	1,911
Steel Ingots	"	2,117	2,209	2,320
Blooms and Billets	"	1,921	1,953	2,111
Irons, Electric (Hand, Domestic) ..	No.	229,910	278,777	327,536
Jams	'000 lb.	85,687	81,699	84,096
Jelly Crystals	"	11,028	11,799	12,793
Kalsomine	"	3,396	3,089	1,918
Lacquer, Clear and Colours	Gal.	1,306,661	1,476,489	1,498,695
Lard	Cwt.	40,973	40,472	42,446
Lawn Mowers—				
Electric	No.	21,922	25,418	18,861
Petrol	"	9,849	29,423	77,929
Hand	"	85,867	106,005	106,712
Leather—				
Dressed from Hides—Sold by Measurement	'000 sq. ft.	55,087	54,069	55,126
Sold by Weight	'000 lb.	297	208	132
Dressed from Skins	'000 sq. ft.	26,811	25,641	23,883
Harness, Skirt, etc.	'000 lb.	1,546	1,433	1,213
Sole and Belting	"	38,675	35,001	33,701
Upholstery	'000 sq. ft.	7,843	7,103	3,389
Lime—Agricultural	Ton	108,746	111,170	123,338
Hydrated	"	44,047	48,644	54,172
Quick	"	123,774	128,639	117,578
Linseed Oil—extracted from Local Crushing	'000 gals.	338	438	1,448
from treatment of Unrefined	"	3,946	3,539	2,631
Lubricating Oil	tons	57,003	64,465	67,531

(a) Excludes Motor Car, Motor Cycle, Tractor and Aero Engines.
Baking and Sharps.

(b) Includes Wheatmeal for

QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES :
AUSTRALIA—continued.

Article.	Unit of Quantity.	1953-54.	1954-55.	1955-56.
Malt, Barley	'000 bus.	7,078	7,517	7,782
Margarine—				
Table	'000 lb.	21,866	21,972	26,552
Other	"	49,939	49,171	43,443
Mattresses—Wire	No.	262,930	315,741	296,494
Inner Spring	"	418,811	476,395	501,133
Soft Filled, etc.	"	367,116	380,465	363,167
Meat, Tinned	'000 lb.	161,113	165,394	157,969
Milk—				
Concentrated (Whole)	"	43,599	22,560	31,038
Condensed	"	94,944	86,225	99,368
Powdered (Whole) (a)	"	68,643	59,269	67,361
Mops, Floor	Gross	11,964	13,914	13,768
Motor Bodies made	No.	114,878	127,709	139,098
Motor Bodies Assembled	"	43,077	62,408	94,953
Motor Spirit (including Benzol)	'000 gals.	182,319	412,955	617,356
Motors, Electric	No.	972,887	1,183,066	1,116,840
Nails	Ton	22,008	24,214	25,058
Neckties	Doz.	588,730	491,455	516,835
Newsprint	Ton	60,406	73,608	79,015
Oatmeal (including Rolled Oats)	Cwt.	400,095	322,985	365,980
Paint—Oil	'000 gals.	5,180	6,098	6,553
Water	'000 lb.	31,930	28,955	24,388
Peanut Butter and Paste	"	4,313	4,627	4,736
Perambulators	No.	153,048	155,433	160,374
Pickles	'000 pints	6,896	6,765	7,721
Pigments—Colours ground in oil	Cwt.	19,047	17,592	20,025
Zinc Oxide	"	172,807	184,853	165,300
White Lead	"	337,794	389,185	369,613
Other, including Dry Colours	"	161,581	186,604	300,699
Plywood, $\frac{1}{2}$ inch basis	'000 sq. ft.	335,890	315,028	332,564
Pollard	Ton (2,000 lb.)			
Preserves—				
Fruit Preserved (b)	'000 lb.	338,562	319,235	304,299
Vegetables Preserved	"	40,265	51,116	77,822
Pyjamas—				
Men's and Boys' (Suits only)	Doz.	273,423	339,556	279,734
Women's and Girls' (inc. Nightdresses)	"	322,010	343,464	359,780
Racquet Frames (all types)	"	22,224	18,361	16,651
Refrigerators—Commercial	No.	1,442	1,656	1,756
Domestic	"	274,487	280,577	247,360
Rice (Cleaned)	Cwt.	904,207	916,702	1,166,027
Ropes and Cables (excluding Wire)	"	115,182	125,727	128,873
Rugs	'000	138	141	142
Sauce	'000 pints	25,711	28,482	28,668
Sausage Casings	Cwt.	61,205	72,377	79,769
Semolina	"	108,382	103,553	129,536
Shirts (Men's and Boys')	Doz.	1,240,069	1,410,573	1,309,501
Sink Heaters	No.	24,907	23,799	24,842
Soap and Detergents—				
Soap—Personal Toilet	Cwt.	315,871	342,741	327,949
Household	"	622,607	747,487	744,109
Industrial (Incl. Wool Scouring) (c)	"	286,705	172,998	197,590
Extracts and Powders—Household	"	821,612	926,156	822,988
Industrial	"	68,629	81,338	87,455
Detergents—Personal Toilet	"		7,932	6,000
Household	"		99,225	92,806
Industrial	"		19,777	22,499
Extracts and Powders—				
Household	"			
Industrial	"			
Socks and Stockings—				
Men's, Youths' and Boys'	Doz. pairs			
Women's, Maids' and Girls'	"			
Infants' and Babywear (including Anklets)	"			
Soup—Tinned	'000 pints	25,509	27,616	35,316
Dry-Mix	'000 lb.	2,800	2,893	3,771
Spades and Shovels	Doz.	25,322	32,058	33,873
Starch—Edible	Cwt.	334,298	357,557	391,766
Inedible	"	90,339	92,004	96,929
Steel, Structural, Fabricated	Ton	137,557	162,793	218,124
Stoves, Ovens and Ranges—				
Domestic Cooking—				
Electric (f)	No.	81,508	85,589	92,258
Gas	"	43,040	58,758	57,097
Solid Fuel	"	50,376	49,758	47,300
Sugar—Raw (94 net titre)	Ton	1,254,387	1,327,546	1,171,713
Refined	"	449,015	481,639	482,660
Sulphate of Ammonia	"	70,811	78,434	75,321
Superphosphate	"	1,771,196	1,960,605	2,125,803

(a) Includes Malted Milk and Infants' and Invalids' Foods. (b) Includes Canned Apple, all types. (c) Includes industrial flakes and chips. (d) Includes soft and liquid not separately described. (e) Not available. (f) Includes Stovettes, Cookers, etc.

**QUANTITY OF PRINCIPAL ARTICLES PRODUCED IN FACTORIES :
AUSTRALIA—continued.**

Article.	Unit of Quantity.	1953-54.	1954-55.	1955-56.
Talcum Powder	Cwt.	30,183	30,454	35,824
Tallow—				
Edible	"	388,222	507,477	681,057
Inedible	"	1,101,114	1,126,770	1,346,145
Television Sets	No.			(a) 2,636
Tiles, Roofing—				
Cement	'000	44,651	53,720	53,782
Terracotta	"	63,782	63,934	64,746
Timber—				
From Native Logs—				
Hardwood	'000 super. ft.	1,157,124	1,184,992	1,180,936
Softwood	"	242,974	264,296	268,785
From Imported Logs—				
Hardwood	"	20,627	28,748	27,894
Softwood	"			
Toasters, Electric (Domestic)	No.	156,909	156,037	173,549
Tobacco	'000 lb.	23,400	21,466	18,836
Tomato Juice	Gal.	622,314	1,237,714	1,208,758
Towels	Doz.	659,987	666,403	767,751
Transformers and Converters—				
Above 20 k.v.a.	No.	2,949	3,099	3,462
Below 20 k.v.a.	"	309,901	375,717	628,147
Iwine (all types)	Cwt.	107,629	116,059	133,694
Tyres, Pneumatic—				
Motor Car and Motor Cycle	No.	2,214,041	2,737,172	2,907,492
Truck and Omnibus	"	509,663	587,739	544,807
All Other (excl. Bicycle)	"	165,868	190,365	184,273
Umbrellas		430,422	478,144	570,156
Underwear	'000 doz.	4,239	4,328	4,460
Vacuum Cleaners (Domestic)	No.	57,275	59,968	55,674
Varnishes	'000 gals.	3,135	3,188	4,167
Washing Machines, Household, Electric	No.	146,259	166,312	165,558
Weatherboards—				
Australian Timber	'000 super. ft.	24,880	23,529	23,910
Imported Timber	"	3,271	3,264	2,150
Wheatmeal(b)	Ton (2,000 lb.)	137,732	128,863	110,635
Wheelbarrows (Metal)	No.	78,874	84,631	73,031
Wireless—				
Cabinets—				
Wood	"	85,061	86,210	(c) 101,454
Other	"	304,452	310,684	281,685
Receiving Sets (including Radiograms)	"	438,978	456,034	458,012
Wool Scoured—				
For Sale	'000 lb.	40,536	40,994	38,808
For use in own works	"	38,246	37,610	40,875
On Commission	"	57,785	57,643	65,025
Wool Tops	"	32,755	30,886	35,640
Yarn(d)				
Cotton	"	38,102	41,493	40,543
Woollen	"	19,868	19,790	20,033
Worsted	"	26,077	22,897	23,180

Zinc Oxide (See Pigments)

(a) Production commenced late in 1955-56. Number produced in 1956-57 was 126,498.
 (b) Excludes Wheatmeal for Baking included with Flour. (c) Includes Television Cabinets.
 (d) Including mixtures predominantly of the fibre mentioned.

§ 11. Individual Industries.

1. General.—Particulars in pp. 212-239, §§ 2-9 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 work, 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 and capital or for other features of special interest. Where there are only one or two establishments in a particular industry in the State or the Commonwealth, details of activities are not published, but are combined with some other factory group so that operations of individual concerns will not be disclosed.

The statistics in the following tables should be read in the light of the following definitions.

Factory. A factory is taken to be a manufacturing establishment in which four or more persons are employed or in which power, other than manual, is used.

Average Number of Persons Employed. 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 means, in general, the average number over the whole year and not the average over the period worked.

Value of Materials Used. This item 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. This item includes also the cost of power and light used, of lubricants and of water.

Value of Output. The amounts given under this heading represent the selling value, at the factory, of goods made or processed during the year, including by-products, also the value of other work done.

Value of Production. The value of production is obtained by deducting "Value of materials used" and "Value of fuel used", as defined above, from the "Value of output". This method of valuing factory production has been adopted by the Statistical offices throughout Australia.

Rated Horse-power of Engines Used. Statistics of power used in factories other than Central Electric Stations relate to the "rated horse-power" of engines ordinarily in use.

For more detailed definitions see § 1, par. 6 of this chapter, page 209.

Details of some of the principal articles produced in factories in Australia during the years 1953-54 to 1955-56 are shown in the table in the preceding pages (§ 10).

2. **Portland Cement and Cement Goods.**—The manufacture of Portland Cement and Cement goods is an important industry included in Class I. Particulars for the three industries under this general heading are shown for 1955-56 and for a series of years in the following table.

PORTLAND CEMENT, ASBESTOS CEMENT SHEETS, ETC., AND OTHER CEMENT GOODS.

AUSTRALIA, 1955-56.

Items.	Portland Cement.	Asbestos Cement Sheets and Mouldings.	Other Cement Goods.	Total.
Number of factories	16	14	459	489
Number of persons employed	3,223	2,668	5,276	11,167
Salaries and wages paid £'000	3,048	2,509	4,487	10,044
Value of power, fuel, etc., used £'000	4,357	246	189	4,792
Value of materials used £'000	6,353	5,154	10,492	21,999
Value of production £'000	7,097	4,057	8,306	19,460
Total value of output £'000	17,807	9,457	18,987	46,251
Value of land and buildings £'000	2,831	1,043	2,254	6,128
Value of plant and machinery £'000	11,217	1,642	2,683	15,542
Horse-power of engines ordinarily in use .. h.p.	83,749	9,971	14,995	108,715

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	132	559	504	479	480	489
Number of persons employed	3,932	9,851	9,352	9,304	10,444	11,167
Salaries and wages paid £'000	897	6,469	6,942	7,435	8,704	10,044
Value of power, fuel, etc., used £'000	562	2,418	3,436	3,950	4,445	4,792
Value of materials used £'000	1,542	12,698	14,303	16,013	19,418	21,999
Value of production £'000	2,385	11,169	12,197	14,198	17,009	19,460
Total value of output £'000	4,489	26,285	29,936	34,161	40,872	46,251
Value of land and buildings £'000	1,350	3,466	3,890	4,206	4,726	6,128
Value of plant and machinery £'000	2,516	6,455	10,018	10,796	13,208	15,542
Horse-power of engines ordinarily in use h.p.	39,617	81,691	91,880	89,260	95,870	108,715

3. **Chemicals, Drugs and Medicines.**—In 1945-46, the classification of factories was amended to provide for the separate tabulation of factories engaged in the production of Industrial and Heavy Chemicals and Acids and those engaged in producing Pharmaceutical and Toilet Preparations, which previously had been combined. Details for each of these industries are given in the next two tables for 1955-56 with comparative figures for previous years. However, it should be noted that in order to avoid the publication of confidential information, particulars relating to Industrial and Heavy Chemicals include details for the Explosives industry.

INDUSTRIAL AND HEAVY CHEMICALS AND ACIDS (INCLUDING EXPLOSIVES). 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	137	81	16	10	13	1	258
Number of persons employed ..	6,092	6,577	299	829	(a)	(a)	14,107
Salaries and wages paid .. £'000	6,230	6,021	238	823	(a)	(a)	13,574
Value of power, fuel, etc., used ..	£'000 1,924	796	57	582	(a)	(a)	3,462
Value of materials used ..	£'000 19,412	12,104	379	1,130	(a)	(a)	33,506
Value of production ..	£'000 15,988	10,697	516	2,238	(a)	(a)	29,895
Total value of output ..	£'000 37,324	23,597	952	3,950	(a)	(a)	66,863
Value of land and buildings ..	£'000 8,224	6,564	186	733	(a)	(a)	15,987
Value of plant and machinery ..	£'000 15,096	9,748	193	1,577	(a)	(a)	27,125
Horse-power of engines ordinarily in use .. h.p.	47,665	43,514	1,830	5,420	(a)	(a)	101,527

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	165	219	229	234	248	258
Number of persons employed ..	10,228	11,504	11,253	11,765	13,032	14,107
Salaries and wages paid .. £'000	3,450	8,539	8,928	9,907	11,833	13,574
Value of power, fuel, etc., used ..	£'000 618	2,110	2,210	2,757	3,043	3,462
Value of materials used ..	£'000 6,007	21,097	19,538	25,158	29,004	33,506
Value of production ..	£'000 6,627	17,180	16,879	20,643	25,095	29,895
Total value of output ..	£'000 13,252	40,387	38,627	48,558	57,142	66,863
Value of land and buildings ..	£'000 11,697	8,828	11,923	13,389	14,190	15,987
Value of plant and machinery ..	£'000 10,964	12,507	19,612	23,573	25,607	27,125
Horse-power of engines ordinarily in use .. h.p.	69,399	76,890	85,254	90,807	95,188	101,527

(a) Not available for publication ; included in total for Australia.

PHARMACEUTICAL AND TOILET PREPARATIONS.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	122	61	5	13	2	3	206
Number of persons employed ..	3,271	2,435	118	486	(a)	(a)	6,400
Salaries and wages paid .. £'000	2,270	1,937	65	310	(a)	(a)	4,635
Value of power, fuel, etc., used ..	£'000 83	145	1	28	(a)	(a)	259
Value of materials used ..	£'000 7,137	4,936	296	1,088	(a)	(a)	13,565
Value of production ..	£'000 10,190	4,229	154	562	(a)	(a)	15,279
Total value of output ..	£'000 17,410	9,310	451	1,678	(a)	(a)	29,103
Value of land and buildings ..	£'000 2,817	3,476	34	344	(a)	(a)	6,830
Value of plant and machinery ..	£'000 1,038	1,453	17	152	(a)	(a)	2,686
Horse-power of engines ordinarily in use .. h.p.	3,923	8,712	79	1,437	(a)	(a)	14,301

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	215	208	206	208	210	206
Number of persons employed ..	5,514	6,149	5,363	6,012	6,233	6,400
Salaries and wages paid .. £'000	1,699	3,433	3,468	3,898	4,255	4,635
Value of power, fuel, etc., used ..	£'000 57	150	197	238	223	259
Value of materials used ..	£'000 5,402	9,877	9,784	12,017	12,729	13,565
Value of production ..	£'000 4,790	10,314	10,188	12,969	14,380	15,279
Total value of output ..	£'000 10,249	20,341	20,169	25,224	27,332	29,103
Value of land and buildings ..	£'000 1,534	3,332	3,931	4,755	6,022	6,830
Value of plant and machinery ..	£'000 598	1,286	1,569	1,793	2,129	2,686
Horse-power of engines ordinarily in use .. h.p.	6,324	10,618	12,238	12,777	13,592	14,301

(a) Not available for publication ; included in the total for Australia.

4. *White Lead, Paints and Varnish.*—The following table shows particulars of this industry for each State during 1955-56 and for Australia for a series of years.

WHITE LEAD, PAINTS AND VARNISH. 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	82	55	17	13	10	1	178
Number of persons employed ..	3,186	1,651	323	528	(a)	(a)	5,804
Salaries and wages paid .. £'000	3,014	1,499	250	446	(a)	(a)	5,300
Value of power, fuel, etc., used £'000	261	77	16	24	(a)	(a)	384
Value of materials used .. £'000	12,145	6,708	1,739	2,355	(a)	(a)	23,504
Value of production £'000	6,485	3,596	1,117	1,332	(a)	(a)	12,874
Total value of output £'000	18,891	10,381	2,872	3,711	(a)	(a)	36,762
Value of land and buildings .. £'000	2,499	1,918	260	650	(a)	(a)	5,363
Value of plant and machinery .. £'000	1,338	1,287	245	334	(a)	(a)	3,261
Horse-power of engines ordinarily in use h.p.	13,672	7,553	1,418	1,744	(a)	(a)	25,050

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	102	158	175	174	175	178
Number of persons employed ..	2,271	5,141	4,622	4,934	5,322	5,804
Salaries and wages paid .. £'000	535	3,378	3,346	3,757	4,636	5,300
Value of power, fuel, etc., used .. £'000	45	303	258	337	376	384
Value of materials used £'000	2,275	16,623	14,657	18,603	21,553	23,504
Value of production £'000	1,585	8,112	8,583	9,891	11,980	12,874
Total value of output £'000	3,905	25,038	23,498	28,831	33,909	36,762
Value of land and buildings .. £'000	761	3,213	3,669	4,066	5,089	5,363
Value of plant and machinery .. £'000	324	1,842	2,113	2,230	2,892	3,261
Horse-power of engines ordinarily in use h.p.	7,696	21,412	22,769	22,719	24,178	25,050

(a) Not available for publication ; figures are included in the total for Australia.

5. Soap and Candle Factories.—The following table shows particulars of factories in the Soap and Candle industry in each State for 1955-56 and for Australia for a series of years :—

SOAP AND CANDLES. 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	44	28	9	5	3	3	92
Number of persons employed ..	1,997	674	284	132	(a)	(a)	3,167
Salaries and wages paid .. £'000	1,832	663	191	115	(a)	(a)	2,858
Value of power, fuel, etc., used .. £'000	191	178	19	11	(a)	(a)	406
Value of materials used £'000	6,764	4,089	668	291	(a)	(a)	12,057
Value of production £'000	5,159	2,115	544	166	(a)	(a)	8,147
Total value of output £'000	12,114	6,382	1,231	468	(a)	(a)	20,610
Value of land and buildings .. £'000	657	840	106	82	(a)	(a)	1,743
Value of plant and machinery .. £'000	1,032	1,723	141	62	(a)	(a)	3,001
Horse-power of engines ordinarily in use h.p.	5,675	3,310	874	543	(a)	(a)	10,711

(a) Not available for publication ; figures are included in the total for Australia.

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	65	88	89	89	91	92
Number of persons employed ..	2,620	3,440	3,028	3,038	2,962	3,167
Salaries and wages paid .. £'000	501	2,555	2,460	2,544	2,589	2,858
Value of power, fuel, etc., used .. £'000	76	453	475	427	420	406
Value of materials used £'000	1,568	8,384	8,846	10,214	11,941	12,057
Value of production £'000	1,886	4,638	6,324	6,732	7,425	8,147
Total value of output £'000	3,530	13,475	15,645	17,373	19,786	20,610
Value of land and buildings .. £'000	666	1,301	1,487	1,565	1,619	1,743
Value of plant and machinery .. £'000	577	1,693	1,805	2,244	2,653	3,001
Horse-power of engines ordinarily in use h.p.	5,267	8,769	8,606	8,795	8,676	10,711
Materials used—						
Tallow cwt.	535,511	1,134,935	1,024,772	1,120,828	1,151,146	1,162,578
Alkali for Soap (a)	194,869	403,241	386,176	377,451	421,401	390,757
Coconut oil—refined and unrefined .. cwt.	138,954	113,203	95,825	86,576	93,498	83,346
Articles produced—						
Soap (excl. Sand Soap)	908,797	1,263,981	1,179,871	1,225,183	1,263,226	1,269,648
Cleansers and Scourers (incl. Sand Soap) cwt.	123,702	124,432	123,429	121,232	115,350	105,046
Soap Extracts and Powders	191,232	929,310	885,158	890,241	1,007,494	910,443
Candles made	28,649	16,931	14,256	8,611	10,369	10,011

(a) Includes Soda Ash.

NOTE.—Preliminary figures of production in 1956-57 were Soap, 1,219,000 cwt.; Soap Extracts and Powders, 866,000 cwt.; and Cleansers and Scourers 77,000 cwt.

6. Chemical Fertilizers.—The following table shows particulars of the factories engaged in the manufacture of chemical fertilizers in each State during 1955-56 and for Australia for a series of years. Details of the consumption, imports and exports of fertilizers will be found in Chapter XXII.—Agricultural Production.

CHEMICAL FERTILIZERS.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	15	9	8	8	6	8	54
Number of persons employed ..	1,016	1,459	(a)	983	977	(a)	4,911
Salaries and wages paid .. £'000	1,035	1,506	(a)	948	884	(a)	4,809
Value of power, fuel, etc., used £'000	426	231	(a)	103	145	(a)	939
Value of materials used .. £'000	3,825	7,108	(a)	5,203	5,009	(a)	24,098
Value of production .. £'000	1,889	3,320	(a)	1,845	2,407	(a)	10,267
Total value of output .. £'000	6,140	10,659	(a)	7,151	7,561	(a)	35,304
Value of land and buildings .. £'000	2,720	816	(a)	600	1,868	(a)	7,033
Value of plant and machinery .. £'000	2,675	1,261	(a)	3,319	2,165	(a)	11,645
Horse-power of engines ordinarily in use .. h.p.	16,625	14,697	(a)	8,786	7,684	(a)	58,044

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	36	49	51	51	53	54
Number of persons employed ..	2,540	4,325	4,483	4,531	4,735	4,911
Salaries and wages paid .. £'000	601	3,361	3,759	3,988	4,372	4,809
Value of power, fuel, etc., used .. £'000	114	589	786	842	852	939
Value of materials used .. £'000	3,231	20,297	21,100	20,521	21,519	24,098
Value of production .. £'000	1,600	5,998	7,255	8,109	8,794	10,267
Total value of output .. £'000	4,945	26,884	29,141	29,472	31,165	35,304
Value of land and buildings .. £'000	1,449	4,244	4,794	6,067	6,512	7,033
Value of plant and machinery .. £'000	2,353	5,804	6,218	8,067	9,270	11,645
Horse-power of engines ordinarily in use .. h.p.	18,165	38,220	39,850	41,644	47,595	58,044

(a) Not available for publication; figures are included in the total for Australia.

7. **Iron and Steel Works and Engineering.**—(i) *General.* In 1945-46, the classification of factories was amended to provide for the tabulation in four separate groups of those industries previously included under Iron and Steel, and Engineering. The first group (Smelting, Converting, Refining and Rolling of Iron and Steel) covers blast furnaces, steel works and rolling mills. The second group, Foundries (Ferrous), covers those engaged in the founding of iron and steel. The third group (Plant, Equipment and Machinery including Machine Tools) covers those industries engaged in the production of boilers, engines, machines and machinery, machine tools, structural steel fabrications, steel furniture, etc. The fourth group (Other Engineering) includes jobbing and general engineers, not elsewhere included. Detailed statistics for the four groups mentioned are shown in the following tables.

(ii) *Smelting, Converting, Refining and Rolling of Iron and Steel.* In the following table particulars are shown for each State for 1955-56 and for Australia in selected years for the group Smelting, Converting, Refining and Rolling of Iron and Steel.

SMELTING, CONVERTING, REFINING AND ROLLING OF IRON AND STEEL.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S.A.	W.A.	Tas.	Aust.
Number of factories ..	(b) 14	11	..	(b) 2	1	..	(b) 28
Number of persons employed ..	18,873	1,633	..	(a)	(a)	..	20,805
Salaries and wages paid .. £'000	20,124	1,636	..	(a)	(a)	..	22,037
Value of power, fuel, etc., used .. £'000	16,013	376	..	(a)	(a)	..	17,864
Value of materials used .. £'000	99,367	1,514	..	(a)	(a)	..	101,416
Value of production .. £'000	41,031	2,259	..	(a)	(a)	..	44,269
Total value of output .. £'000	156,411	4,149	..	(a)	(a)	..	163,549
Value of land and buildings .. £'000	5,839	581	..	(a)	(a)	..	6,457
Value of plant and machinery .. £'000	28,194	793	..	(a)	(a)	..	29,154
Horse-power of engines ordinarily in use .. h.p.	350,649	9,410	..	(a)	(a)	..	363,751

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	27	30	32	33	33	(b) 28
Number of persons employed ..	10,413	14,192	16,188	16,688	17,842	20,805
Salaries and wages paid .. £'000	4,164	11,904	14,455	15,609	18,238	22,037
Value of power, fuel, etc., used .. £'000	2,777	11,186	14,085	15,430	15,670	17,864
Value of materials used .. £'000	19,134	53,342	76,983	88,802	94,928	101,416
Value of production .. £'000	7,393	20,311	27,336	27,995	34,381	44,269
Total value of output .. £'000	29,304	84,839	118,404	132,227	144,979	163,549
Value of land and buildings .. £'000	2,197	4,064	5,278	6,508	6,615	6,457
Value of plant and machinery .. £'000	5,669	14,992	20,753	24,279	26,394	29,154
Horse-power of engines ordinarily in use .. h.p.	198,317	218,857	248,440	287,618	339,135	363,751

(a) Not available for publication; figures are included in the total for Australia. (b) The reduction in the number of establishments is due to combined returns being furnished where formerly separate returns were submitted for Blast Furnaces, Steel Furnaces and Rolling Mills operated by the one establishment.

Particulars of the production of pig-iron and steel will be found on page 241 and in Chapter XXVII.—Mineral Industry.

(iii) *Foundries (Ferrous)*. Particulars covering those industries classified as founding of iron and steel are shown for each State for 1955-56 and for Australia in selected years in the following table :—

FOUNDRIES—FERROUS.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	89	220	22	24	18	..	373
Number of persons employed ..	2,831	2,849	683	547	524	..	7,434
Salaries and wages paid .. £'000	2,635	2,614	525	490	442	..	6,706
Value of power, fuel, etc., used .. £'000	314	317	44	106	137	..	918
Value of materials used .. £'000	1,922	2,294	521	314	345	..	5,396
Value of production .. £'000	3,739	3,815	826	628	644	..	9,652
Total value of output .. £'000	5,975	6,426	1,391	1,048	1,126	..	15,966
Value of land and buildings .. £'000	1,247	1,605	385	191	136	..	3,564
Value of plant and machinery .. £'000	996	1,452	426	219	141	..	3,234
Horse-power of engines ordinarily in use .. h.p.	11,019	10,914	3,235	3,026	2,544	..	30,738

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	312	365	373	357	368	373
Number of persons employed ..	5,344	7,243	6,584	6,611	7,099	7,434
Salaries and wages paid .. £'000	1,612	5,252	4,989	5,129	6,116	6,706
Value of power, fuel, etc., used .. £'000	161	633	642	702	796	918
Value of materials used .. £'000	1,210	4,331	4,026	4,057	4,881	5,396
Value of production .. £'000	2,341	7,622	7,337	7,469	8,983	9,652
Total value of output .. £'000	3,712	12,586	12,005	12,228	14,660	15,966
Value of land and buildings .. £'000	988	1,736	2,144	2,299	2,623	3,564
Value of plant and machinery .. £'000	619	1,574	1,923	2,123	2,342	3,234
Horse-power of engines ordinarily in use h.p.	13,381	25,107	24,467	25,415	26,451	30,738

(iv) *Plant, Equipment and Machinery (including Machine Tools)*. The next table shows particulars for this group for each State during 1955-56 and for Australia in selected years.

PLANT, EQUIPMENT AND MACHINERY (INCLUDING MACHINE TOOLS).
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	1,037	635	131	162	92	5	2,062
Number of persons employed ..	26,725	23,231	6,436	9,033	3,069	205	68,699
Salaries and wages paid .. £'000	25,068	21,388	4,820	7,914	2,503	179	61,872
Value of power, fuel, etc., used .. £'000	972	842	209	434	109	4	2,570
Value of materials used .. £'000	38,978	31,625	5,853	13,596	3,149	309	93,510
Value of production .. £'000	40,528	34,355	7,121	12,706	3,623	241	98,574
Total value of output .. £'000	80,478	66,822	13,183	26,736	6,881	554	194,654
Value of land and buildings .. £'000	14,568	12,211	1,760	3,468	1,824	188	34,019
Value of plant and machinery .. £'000	10,605	9,736	1,645	2,756	1,372	147	26,261
Horse-power of engines ordinarily in use .. h.p.	89,091	73,671	17,933	25,919	10,697	569	217,880

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	1,038	1,684	1,787	1,911	1,980	2,062
Number of persons employed ..	46,123	64,066	60,140	60,840	64,588	68,699
Salaries and wages paid .. £'000	14,259	45,434	45,414	47,620	54,561	61,872
Value of power, fuel, etc., used .. £'000	605	1,937	2,095	2,219	2,378	2,570
Value of materials used .. £'000	16,455	68,943	63,134	68,288	80,462	93,510
Value of production .. £'000	21,044	71,810	70,790	75,997	87,040	98,574
Total value of output .. £'000	38,104	142,690	136,019	146,504	169,880	194,654
Value of land and buildings .. £'000	7,227	19,383	22,332	25,259	28,687	34,019
Value of plant and machinery .. £'000	7,046	17,870	19,784	21,335	23,548	26,261
Horse-power of engines ordinarily in use h.p.	101,810	196,664	197,031	198,300	201,626	217,880

(v) *Other Engineering*. Details covering jobbing and general engineering works not elsewhere included are shown for each State for 1955-56 and for Australia in selected years in the following table.

OTHER ENGINEERING.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	787	845	158	179	158	93	2,220
Number of persons employed ..	6,356	9,991	1,592	3,815	989	1,702	24,445
Salaries and wages paid .. £'000	5,283	8,680	1,069	3,335	701	1,409	20,477
Value of power, fuel, etc., used ..	£'000	191	285	34	103	33	698
Value of materials used .. £'000	5,740	11,224	1,242	3,973	822	1,533	24,534
Value of production .. £'000	8,958	14,260	1,707	4,726	1,153	2,145	32,949
Total value of output .. £'000	14,889	25,769	2,983	8,802	2,008	3,730	58,181
Value of land and buildings .. £'000	3,671	5,609	654	1,921	517	833	13,205
Value of plant and machinery .. £'000	2,364	4,287	537	1,317	294	564	9,363
Horse-power of engines ordinarily in use .. h.p.	17,489	32,076	4,142	12,202	3,045	9,292	78,246

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	963	1,853	1,975	2,041	2,128	2,220
Number of persons employed ..	13,112	20,398	20,005	20,981	22,540	24,445
Salaries and wages paid .. £'000	3,634	13,124	13,804	15,100	17,491	20,477
Value of power, fuel, etc., used .. £'000	162	413	460	530	599	698
Value of materials used .. £'000	3,599	14,268	14,041	16,427	20,834	24,534
Value of production .. £'000	5,432	20,681	21,551	23,755	28,025	32,949
Total value of output .. £'000	9,193	35,362	36,052	40,712	49,458	58,181
Value of land and buildings .. £'000	2,369	7,021	8,285	9,900	11,289	13,205
Value of plant and machinery .. £'000	2,091	5,434	6,366	7,044	8,070	9,363
Horse-power of engines ordinarily in use .. h.p.	26,095	56,397	59,024	62,774	66,406	78,246

8. **Extracting and Refining of Non-ferrous Metals : Alloys.**—The following 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, for each State during 1955-56 and for Australia for a series of years. It should be noted that as "Ore Beneficiation and Concentration", formerly included as part of this section of Manufacturing Industry, was transferred to the Mining Industry in 1952-53 details for that and later years are not comparable with those for 1951-52 and earlier years.

EXTRACTING AND REFINING OF NON-FERROUS METALS : ALLOYS.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust. (a)	Tas.	Aust.
Number of factories	25	21	5	2	..	3	56
Number of persons employed ..	1,332	306	532	(b)	..	(b)	7,029
Salaries and wages paid .. £'000	1,446	301	636	(b)	..	(b)	7,434
Value of power, fuel, etc., used ..	£'000	493	42	684	(b)	(b)	3,753
Value of materials used .. £'000	14,703	2,989	17,026	(b)	..	(b)	70,000
Value of production .. £'000	2,430	713	2,849	(b)	..	(b)	17,787
Total value of output .. £'000	17,626	3,744	20,559	(b)	..	(b)	91,540
Value of land and buildings .. £'000	808	221	953	(b)	..	(b)	6,155
Value of plant and machinery .. £'000	1,260	144	1,272	(b)	..	(b)	13,367
Horse-power of engines ordinarily in use .. h.p.	8,134	671	20,712	(b)	..	(b)	79,696

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53. (c)	1953-54. (c)	1954-55. (c)	1955-56. (c)
Number of factories	42	67	59	59	62	56
Number of persons employed ..	5,532	7,812	6,958	6,592	6,782	7,029
Salaries and wages paid .. £'000	1,613	6,515	6,085	6,069	6,432	7,434
Value of power, fuel, etc., used .. £'000	598	3,130	2,803	3,063	3,253	3,753
Value of materials used .. £'000	16,844	71,097	44,481	53,711	62,859	70,000
Value of production .. £'000	3,892	27,496	14,163	12,648	14,148	17,787
Total value of output .. £'000	21,334	101,723	61,447	69,422	80,260	91,540
Value of land and buildings .. £'000	1,177	2,075	2,669	2,743	3,044	6,155
Value of plant and machinery .. £'000	3,526	4,936	4,371	5,390	6,019	13,367
Horse-power of engines ordinarily in use .. h.p.	54,450	81,567	70,424	65,067	66,280	79,696

(a) In Western Australia the majority of the plants are worked at the mines and are therefore not included. (b) Not available for publication ; figures are included in the total for Australia. (c) See text above table.

9. **Electrical Machinery, Cables and Apparatus.**—The following table shows particulars of this industry for each State during 1955-56 and for Australia for a series of years.

ELECTRICAL MACHINERY, CABLES AND APPARATUS.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	530	354	67	67	66	15	1,099
Number of persons employed ..	29,588	10,069	1,643	1,555	797	189	43,841
Salaries and wages paid .. £'000	25,305	8,268	1,191	1,176	581	142	36,663
Value of power, fuel, etc. used .. £'000	1,373	342	31	34	19	9	1,808
Value of materials used ..	52,846	17,339	2,557	1,366	749	272	75,129
Value of production ..	£'000 40,195	12,031	1,906	1,620	958	326	57,036
Total value of output ..	£'000 94,414	29,712	4,494	3,020	1,726	607	133,973
Value of land and buildings ..	£'000 13,344	5,054	500	532	413	149	19,992
Value of plant and machinery ..	£'000 9,849	3,060	436	282	130	97	13,854
Horse-power of engines ordinarily in use .. h.p.	56,148	18,328	5,111	1,960	1,374	358	83,279

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	360	928	965	1,028	1,064	1,099
Number of persons employed ..	10,666	36,772	31,949	38,377	42,007	43,841
Salaries and wages paid .. £'000	2,031	24,277	22,903	28,969	33,403	36,663
Value of power, fuel, etc., used .. £'000	105	976	991	1,391	1,651	1,808
Value of materials used ..	£'000 3,195	40,704	36,668	58,237	69,962	75,129
Value of production ..	£'000 3,655	38,244	38,633	49,032	54,637	57,036
Total value of output ..	£'000 6,955	79,924	76,292	108,660	126,250	133,973
Value of land and buildings ..	£'000 1,627	9,631	11,270	13,829	16,885	19,992
Value of plant and machinery ..	£'000 897	6,957	8,168	9,709	11,915	13,854
Horse-power of engines ordinarily in use h.p.	12,043	62,814	66,512	74,088	81,058	83,279

10. **Railway and Tramway Workshops (Government and Local Authority).**—The railway and tramway workshops, which form an important part of Class IV., are chiefly owned by State Governments and Local Authorities. *Workshops (fourteen in 1955-56) controlled by non-public bodies are not included in the figures below :—*

TRAMCARS AND RAILWAY ROLLING STOCK.(a)
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	42	22	13	15	26	7	125
Number of persons employed ..	15,443	7,363	6,542	4,395	3,700	914	38,357
Salaries and wages paid .. £'000	14,232	6,581	4,793	3,900	2,947	706	33,159
Value of power, fuel, etc., used .. £'000	435	207	127	151	113	28	1,061
Value of materials used ..	£'000 7,736	4,946	2,869	2,615	1,734	655	20,555
Value of production ..	£'000 16,705	8,835	5,694	4,677	3,509	984	40,404
Total value of output ..	£'000 24,876	13,988	8,690	7,443	5,356	1,667	62,020
Value of land and buildings ..	£'000 5,850	1,883	753	1,424	502	664	11,076
Value of plant and machinery ..	£'000 8,865	1,115	1,023	1,718	1,018	333	14,072
Horse-power of engines ordinarily in use .. h.p.	43,387	21,391	17,278	20,536	10,933	3,250	116,775

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	117	126	123	124	123	125
Number of persons employed ..	27,310	38,499	39,073	39,262	38,599	38,357
Salaries and wages paid .. £'000	6,721	26,281	28,002	28,425	30,777	33,159
Value of power, fuel, etc., used ..	£'000 226	812	907	994	1,025	1,061
Value of materials used ..	£'000 4,976	15,151	16,706	17,093	18,818	20,555
Value of production ..	£'000 8,021	31,375	33,875	34,354	37,505	40,404
Total value of output ..	£'000 13,223	47,338	51,488	52,441	57,348	62,020
Value of land and buildings ..	£'000 6,737	8,786	9,279	9,730	10,524	11,076
Value of plant and machinery ..	£'000 5,390	9,218	10,701	12,166	13,124	14,072
Horse-power of engines ordinarily in use h.p.	53,671	97,585	98,251	108,478	112,184	116,775

(a) Government and Local Authority only.

A railway workshop in the Northern Territory is chiefly engaged in making repairs to rolling stock, etc., no new goods being manufactured. Particulars of this establishment are not included in any of the tables in this chapter.

11. **Motor Vehicles.**—The industries catering for the motor trade are included in Class IV., Industrial Metals, Machines and Conveyances. In the table below a summary is given of the principal statistics for 1955-56 for each branch of industry associated with the motor trade of Australia.

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC., AUSTRALIA.
1955-56.

Items.	Construction and Assembly.	Repairs.	Motor Bodies. (a)	Motor Accessories.	Total.
Number of factories	70	8,075	1,344	218	9,707
Number of persons employed	18,148	52,751	25,822	9,238	105,959
Salaries and wages paid £'000	17,931	35,667	22,368	8,016	83,982
Value of power, fuel, etc., used £'000	804	1,098	766	521	3,189
Value of materials used £'000	30,091	36,928	50,263	9,651	126,933
Value of production £'000	25,750	54,669	32,755	13,285	126,459
Total value of output £'000	56,645	92,695	83,784	23,457	256,581
Value of land and buildings £'000	10,043	39,772	11,365	5,055	66,235
Value of plant and machinery £'000	7,704	10,909	8,119	5,658	32,390
Horse-power of engines ordinarily in use h.p.	45,844	56,876	69,409	30,834	202,963

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

In the next table similar details are shown on a State basis for 1955-56 and for Australia for selected years for these industries combined.

MOTOR VEHICLES : CONSTRUCTION, ASSEMBLY, REPAIRS, ETC.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	4,039	2,476	1,195	854	868	275	9,707
Number of persons employed	35,021	35,176	10,068	17,291	6,414	1,989	105,959
Salaries and wages paid £'000	26,636	29,850	6,382	15,142	4,585	1,387	83,982
Value of power, fuel, etc., used £'000	1,021	1,197	198	558	182	33	3,189
Value of materials used £'000	34,549	46,422	6,683	31,189	6,632	1,458	126,933
Value of production £'000	43,193	41,462	11,983	20,635	7,087	2,099	126,459
Total value of output £'000	78,763	89,081	18,864	52,382	13,901	3,590	256,581
Value of land and buildings £'000	26,190	21,846	5,088	7,198	4,204	1,709	66,235
Value of plant and machinery £'000	10,670	11,530	1,742	6,548	1,520	380	32,390
Horse-power of engines ordinarily in use h.p.	56,200	83,694	11,616	36,883	12,507	2,063	202,963

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	3,592	6,587	7,422	8,302	8,993	9,707
Number of persons employed	39,706	82,123	82,609	89,913	98,343	105,959
Salaries and wages paid £'000	10,582	51,799	54,666	62,454	73,073	84,082
Value of power, fuel, etc., used £'000	395	1,610	1,987	2,477	2,798	3,189
Value of materials used £'000	12,143	70,967	74,405	94,173	108,119	126,933
Value of production £'000	15,818	78,808	86,305	101,054	112,541	126,459
Total value of output £'000	28,356	151,385	162,697	197,704	223,458	256,581
Value of land and buildings £'000	9,878	30,799	38,718	45,835	55,451	66,235
Value of plant and machinery £'000	3,758	14,982	20,129	23,397	26,073	32,390
Horse-power of engines ordinarily in use h.p.	56,117	126,228	139,253	146,930	160,001	202,963

The table below shows the production and imports of motor bodies for 1938-39 and 1951-52 to 1956-57 :-

PRODUCTION AND IMPORTS OF MOTOR BODIES(a) : AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.	1956-57. (b)
Motor Bodies(a)—							
Made No.	79,436	98,470	90,822	114,878	127,709	139,098	125,548
Assembled from Panels imported or made elsewhere No.	(c)	29,205	21,566	43,077	62,408	94,953	74,329
Imported (d) No.	532	101,628	7,568	26,874	37,924	19,041	7,062

(a) Excludes sidescars.

(b) Preliminary—subject to revision.

(c) Not available.

(d) Includes bodies on complete vehicles imported.

12. Agricultural Machines and Implements.—Owing to the extensive agricultural activities conducted in Australia and the demand for modern mechanized farm equipment, the manufacture of agricultural implements constitutes an important branch of Australian

industry. The articles manufactured include a wide range of implements for tillage, seeding and planting, and the harvesting of crops. Other farm machinery made includes windmills, chaff-cutters and machinery used in the dairying industry.

The following table shows details of establishments classified as agricultural implement works in each State for 1955-56 and for Australia for a series of years.

AGRICULTURAL MACHINES AND IMPLEMENTS.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	129	84	45	36	30	..	324
Number of persons employed ..	2,155	6,338	1,437	1,641	367	..	11,938
Salaries and wages paid .. £'000	1,851	5,868	998	1,357	290	..	10,364
Value of power, fuel, etc., used .. £'000	88	430	50	92	10	..	670
Value of materials used .. £'000	1,963	8,403	964	1,550	202	..	13,082
Value of production .. £'000	2,627	8,280	1,437	1,899	407	..	14,650
Total value of output .. £'000	4,678	17,113	2,451	3,541	619	..	28,402
Value of land and buildings .. £'000	1,846	2,312	608	651	357	..	5,774
Value of plant and machinery .. £'000	956	2,689	416	500	112	..	4,673
Horse-power of engines ordinarily in use .. h.p.	7,657	20,311	5,553	5,402	955	..	39,878

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	161	257	270	293	308	324
Number of persons employed ..	6,563	12,481	11,608	11,930	12,182	11,938
Salaries and wages paid .. £'000	1,373	9,044	8,838	9,473	10,206	10,364
Value of power, fuel, etc., used .. £'000	82	555	600	637	695	670
Value of materials used .. £'000	1,485	13,521	11,103	12,988	13,572	13,082
Value of production .. £'000	1,836	13,051	12,787	13,924	14,558	14,650
Total value of output .. £'000	3,403	27,127	24,490	27,549	28,825	28,402
Value of land and buildings .. £'000	997	3,320	3,701	3,918	5,038	5,774
Value of plant and machinery .. £'000	911	3,365	3,526	3,627	4,282	4,673
Horse-power of engines ordinarily in use h.p.	13,346	34,598	37,372	39,843	39,858	39,878

13. **Wireless and Amplifying Apparatus.**—The introduction of wireless broadcasting in 1923 gave rise to a new industry in Australia. Early statistical details of the industry are not available as they were grouped together with other electrical apparatus. In 1930-31, a new classification of factories was adopted and "Wireless Apparatus" was shown as a separate industry. The industry is confined mainly to New South Wales and Victoria, but is becoming increasingly important in South Australia. The number of broadcast listeners' licences increased from a third of a million in 1930-31 to over 2,100,000 at 30th June, 1957 and this increase reflects the advancement of the industry during that period. At the 30th June, 1957, 74,000 television viewers' licences had been issued. During the 1939-45 War, considerable expansion took place in the industry to meet the requirements of the fighting services and apart from a slight drop in output in 1945-46, and in 1952-53 this expansion has continued.

WIRELESS AND AMPLIFYING APPARATUS : AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	72	141	149	162	175	181
Number of persons employed ..	4,828	8,733	6,912	8,125	8,550	9,171
Salaries and wages paid .. £'000	754	5,361	4,707	5,751	6,398	7,051
Value of power, fuel, etc., used .. £'000	23	184	179	199	205	231
Value of materials used .. £'000	1,356	8,487	7,661	9,782	10,076	10,363
Value of production .. £'000	1,123	7,023	6,042	7,454	8,624	8,907
Total value of output .. £'000	2,502	15,694	13,882	17,435	18,905	19,501
Value of land and buildings .. £'000	558	1,586	1,713	2,011	2,300	3,428
Value of plant and machinery .. £'000	305	980	969	1,132	1,242	1,761
Horse-power of engines ordinarily in use h.p.	2,710	12,055	10,596	9,274	8,930	9,624
Wireless receiving sets made(a) ..	163,821	358,379	298,955	438,978	456,034	458,012
Television receiving sets made ..	No.	..	..	..	..	2,636

(a) Including radiograms and car radios.

NOTE.—There were 368,500 wireless receiving sets (including radiograms) and 126,600 television receiving sets made in 1956-57.

14. Cotton.—(i) *General.* Cotton has been grown in Australia since 1860, but never on a very large scale. The average annual quantity of unginned cotton produced during the five years ended 1938–39 was 18 million lb. and slightly over 3.5 million lb. in the five years ended 1955–56. Arising out of the development in the local manufacture of cotton materials and the further expansion following the outbreak of war in 1939, plans were completed for an extension of the area devoted to the cultivation of this crop. The downward trend which commenced with the war in the Pacific persisted until recent years but production has recently risen and in 1954–55 amounted to 3,597,000 lb. The growing of cotton, which is restricted to Queensland, is referred to in some detail in Chapter XXII.—Agricultural Production.

(ii) *Ginning.* The ginning and marketing of cotton is controlled by the Queensland Cotton Board. The Board operates ginneries and processes by-products. The production of raw cotton is insufficient for local factory requirements and is supplemented by imports from overseas, chiefly (in 1956–57) from India, Pakistan, Brazil, Mexico, Peru and the United States of America.

(iii) *Spinning and Weaving.* The post war expansion in the spinning and weaving section of the cotton industry marks an important stage in its development. New factories have been established and Australia is now producing an extensive range of cotton goods, including duck and canvas from cotton or flax, denims, drill, etc., tyre cord and tyre cord fabric. The number of establishments engaged in cotton spinning and weaving in Australia and other particulars of the industry are shown in the following table for the years 1938–39, and 1951–52 to 1955–56.

COTTON SPINNING AND WEAVING : AUSTRALIA.

Items.	1938–39.	1951–52.	1952–53.	1953–54.	1954–55.	1955–56.
Number of factories	33	94	93	96	96	97
Number of persons employed	3,589	8,840	7,673	9,470	9,582	9,598
Salaries and wages paid £'000	493	5,297	5,090	6,602	6,845	7,297
Value of power, fuel, etc., used £'000	50	554	551	690	706	703
Value of materials used £'000	1,357	20,803	14,747	18,083	18,505	18,571
Value of production £'000	979	9,272	8,126	10,809	11,343	11,877
Total value of output £'000	2,386	30,629	23,424	29,582	30,554	31,151
Value of land and buildings £'000	704	3,695	3,951	4,104	5,078	5,719
Value of plant and machinery £'000	736	4,214	4,370	4,411	4,355	4,637
Horse-power of engines ordinarily in use h.p.	9,128	32,285	36,517	33,201	34,356	34,657

15. Wool Carding, Spinning and Weaving.—The importance of this industry is emphasised by the fact that Australia is the world's chief source of wool and the development of the woollen industry since its establishment at an early period in Australian history is of singular interest. The production consists chiefly of woollen cloth and tweed, worsted cloth, rugs, blankets and yarn, all of which have acquired a reputation for purity and durability.

WOOL CARDING, SPINNING AND WEAVING.

1955–56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	49	81	4	3	3	5	145
Number of persons employed	6,585	11,273	877	610	(a)	(a)	21,899
Salaries and wages paid £'000	4,361	7,634	472	384	(a)	(a)	14,409
Value of power, fuel, etc., used £'000	415	716	33	41	(a)	(a)	1,345
Value of materials used £'000	11,500	20,365	1,451	1,032	(a)	(a)	39,532
Value of production £'000	6,956	12,642	812	726	(a)	(a)	24,082
Total value of output £'000	18,871	33,723	2,296	1,799	(a)	(a)	64,959
Value of land and buildings £'000	2,583	4,363	195	39	(a)	(a)	7,713
Value of plant and machinery £'000	3,139	6,287	387	116	(a)	(a)	10,673
Horse-power of engines ordinarily in use h.p.	18,361	42,123	3,227	1,866	(a)	(a)	71,752

(a) Not available for publication, figures are included in total for Australia.

WOOL CARDING, SPINNING AND WEAVING—*continued.*

AUSTRALIA.

Items.	1938-39. (a)	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	90	181	171	164	151	145
Number of persons employed	19,608	21,244	19,729	22,619	21,844	21,899
Salaries and wages paid £'000	2,888	11,543	12,028	14,382	13,945	14,409
Value of power, fuel, etc., used £'000	393	1,057	1,175	1,329	1,288	1,345
Value of materials used £'000	7,331	44,064	34,655	45,033	38,938	39,532
Value of production £'000	4,791	16,272	19,226	23,237	21,898	24,082
Total value of output £'000	12,515	61,393	55,056	69,599	62,124	64,959
Value of land and buildings £'000	2,380	6,161	6,242	6,894	7,369	7,713
Value of plant and machinery £'000	3,370	7,881	8,183	9,086	10,053	10,673
Horse-power of engines ordinarily in use h.p.	42,944	69,232	67,911	68,715	66,817	71,752
Articles produced—						
Woolen and worsted cloth (b)(c) '000 sq. yds.	31,768	29,790	29,400	35,027	31,067	30,279
Blankets and rugs (b) '000	1,279	1,382	1,035	1,340	1,673	1,800

(a) Includes Woolscouring Works in Victoria and Tasmania and Woolscouring Works and Fellmongeries in South Australia. (b) Includes production in other industries. (c) Includes mixtures.

16. **Hosiery and Other Knitted Goods.**—Details for each State for 1955-56 and for Australia for a series of years are shown in the following table :—

HOSIERY AND OTHER KNITTED GOODS.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	207	429	6	10	9	3	664
Number of persons employed	7,337	15,105	602	102	179	84	23,409
Salaries and wages paid £'000	4,734	9,883	317	44	97	42	15,117
Value of power, fuel, etc., used £'000	218	452	8	2	4	3	687
Value of materials used £'000	10,391	19,680	1,413	63	221	54	31,822
Value of production £'000	8,704	17,695	539	77	164	57	27,236
Total value of output £'000	19,313	37,827	1,960	142	389	114	59,745
Value of land and buildings £'000	2,745	6,257	178	38	83	38	9,339
Value of plant and machinery £'000	2,230	5,612	230	27	45	15	8,159
Horse-power of engines ordinarily in use h.p.	6,329	12,930	600	191	195	70	20,315

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	313	548	587	645	661	664
Number of persons employed	18,159	21,342	20,694	23,937	24,614	23,409
Salaries and wages paid £'000	2,332	11,179	11,641	14,277	15,117	15,117
Value of power, fuel, etc., used £'000	133	480	588	684	656	687
Value of materials used £'000	4,284	24,517	23,939	30,372	31,317	31,822
Value of production £'000	3,809	18,028	21,164	26,155	27,535	27,236
Total value of output £'000	8,226	43,025	45,691	57,211	59,508	59,745
Value of land and buildings £'000	1,962	5,602	6,329	7,253	8,643	9,339
Value of plant and machinery £'000	1,931	5,894	6,038	7,201	7,917	8,159
Horse-power of engines ordinarily in use h.p.	8,884	19,677	17,997	18,478	20,884	20,315

The following quantities of yarn were used in these establishments during 1955-56:—Worsted or woollen, 8,210,946 lb.; wool or worsted and cotton, 175,841 lb.; wool or worsted and rayon, 672,393 lb.; wool or worsted and nylon, 62,980 lb.; other wool or worsted mixtures, 171,147 lb.; cotton, 10,067,639 lb.; mercerised cotton, 451,797 lb.; cotton and rayon, 19,429 lb.; rayon, spun, 1,202,420 lb.; rayon filament, 4,390,778 lb.; silk, 31,808 lb.; nylon, spun, 553,929 lb.; nylon filament, 2,454,549 lb.; other yarns, 770,794 lb. Production of garments and stockings is shown in § 10 (*see p. 240*).

17. *Tanning, Currying and Leather Dressing.*—(i) *Details of Industry.* In Class VII. the most important industry is tanning. Formerly the production of tanneries in Australia was confined to the coarser sorts of leathers, but there are now very few kinds which cannot be produced locally, and an export trade has been built up in some varieties.

TANNING, CURRYING AND LEATHER DRESSING.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	68	40	13	10	5	1	137
Number of persons employed ..	1,811	2,127	621	216	(a)	(a)	4,972
Salaries and wages paid .. £'000	1,724	1,933	463	185	(a)	(a)	4,468
Value of power, fuel, etc., used £'000	179	167	35	21	(a)	(a)	415
Value of materials used .. £'000	4,553	4,186	1,529	500	(a)	(a)	11,180
Value of production .. £'000	2,191	2,667	648	354	(a)	(a)	6,082
Total value of output .. £'000	6,923	7,020	2,212	875	(a)	(a)	17,677
Value of land and buildings £'000	880	1,053	105	90	(a)	(a)	2,176
Value of plant and machinery £'000	909	866	240	158	(a)	(a)	2,231
Horse-power of engines ordinarily in use h.p.	12,914	12,281	3,628	1,658	(a)	(a)	31,590

(a) Not available for publication ; figures are included in the total for Australia.

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	132	143	141	142	140	137
Number of persons employed ..	4,375	5,274	5,240	5,445	5,393	4,972
Salaries and wages paid .. £'000	920	3,889	4,163	4,464	4,518	4,468
Value of power, fuel, etc., used .. £'000	88	352	382	417	408	415
Value of materials used .. £'000	2,983	8,796	9,488	10,477	10,675	11,180
Value of production .. £'000	1,522	5,912	5,983	6,672	6,743	6,082
Total value of output .. £'000	4,593	15,060	15,853	17,566	17,826	17,677
Value of land and buildings .. £'000	814	1,857	1,983	2,055	2,219	2,176
Value of plant and machinery .. £'000	524	1,703	1,832	1,990	2,128	2,231
Horse-power of engines ordinarily in use h.p.	12,345	28,980	30,314	31,182	31,708	31,590

(ii) *Materials Used and Articles Produced.* The quantities of materials used and leather produced in tanneries in each State in 1955-56 are shown in the following table :—

TANNERIES : MATERIALS USED AND PRODUCTION, 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Materials used—							
Hides (cattle)—							
Yearling .. No.	115,013	45,758	12,998	11,846	(a)	(a)	186,703
Light Hides(b) ..	323,736	562,853	193,426	64,743	(a)	(a)	1,202,994
Heavy Hides(c) ..	419,661	463,665	194,125	64,834	(a)	(a)	1,205,284
Skins—							
Calf ..	664,610	372,333	89,689	3,805	(a)	(a)	1,130,545
Goat ..	377,436	(a)	(a)	(a)	(a)	(a)	408,425
Sheep, including Pelts ..	2,185,380	502,157	(a)	(a)	(a)	(a)	3,454,146
Marsupial ..	98,616	24,225	(a)	(a)	(a)	(a)	113,657
Bark used—							
Wattle .. tons	3,222	4,832	846	328	(a)	(a)	9,253
Mallet and Other ..	(a)	900	(a)	(a)	280	(a)	1,238
Tanning extract (veg.) used ..	2,532	2,901	1,884	(a)	835	(a)	8,441
Articles produced—							
Leather made—							
Sole and Belting .. lb.	10,503,923	13,586,938	5,824,003	(a)	2,741,422	(a)	33,701,455
Harness, etc. ..	255,939	383,903	544,352	(a)	(a)	(a)	1,212,909
Upholstery .. sq. ft.	(a)	2,959,905	(a)	(a)	(a)	(a)	3,389,431
Dressed and Upper from Hides—							
Sold by Measurement—							
Patent .. sq. ft.	(a)	2,179,294	(a)	(a)	(a)	(a)	3,105,934
All Other ..	18,648,885	20,093,084	7,789,117	3,771,725	(a)	(a)	52,020,181
Sold by Weight (all kinds) .. lb.	(a)	(a)	(a)	(a)	(a)	(a)	131,705
Dressed from skins—							
Calf .. sq. ft.	4,043,984	2,623,625	870,557	(a)	(a)	(a)	7,566,642
Goat ..	(a)	(a)	(a)	(a)	(a)	(a)	1,801,192
Sheep ..	9,080,539	1,560,777	(a)	(a)	(a)	(a)	13,951,357
Marsupial ..	168,309	117,553	(a)	(a)	(a)	(a)	475,160

(a) Not available for publication; figures are included in the total for Australia.

45 lb.

(c). Over 45 lb.

(b) Up to

18. Tailoring and Ready-made Clothing.—Statistics showing the distribution of this industry between States in 1955-56 and for Australia for a series of years are shown in the following table :—

TAILORING AND READY-MADE CLOTHING.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	965	614	130	104	122	17	1,952
Number of persons employed ..	17,428	10,345	2,212	1,575	825	202	32,587
Salaries and wages paid .. £'000	9,792	6,245	994	768	359	103	18,261
Value of power, fuel, etc., used .. £'000	209	130	21	20	11	2	393
Value of materials used .. £'000	19,401	12,976	1,969	950	573	72	35,941
Value of production .. £'000	15,461	9,957	1,695	1,097	588	142	28,940
Total value of output .. £'000	35,071	23,063	3,685	2,067	1,172	216	65,274
Value of land and buildings .. £'000	4,960	2,981	561	555	352	75	9,484
Value of plant and machinery .. £'000	1,472	987	124	120	36	7	2,746
Horse-power of engines ordinarily in use .. h.p.	4,763	3,123	504	427	177	23	9,017

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	1,177	1,998	1,961	1,963	1,985	1,952
Number of persons employed ..	26,499	36,226	32,209	33,264	33,384	32,587
Salaries and wages paid .. £'000	3,168	16,132	15,681	17,215	17,968	18,261
Value of power, fuel, etc., used .. £'000	72	329	363	380	390	393
Value of materials used .. £'000	4,947	30,078	28,767	33,598	34,237	35,941
Value of production .. £'000	4,812	23,719	23,581	26,076	28,031	28,940
Total value of output .. £'000	9,831	54,126	52,711	60,054	62,658	65,274
Value of land and buildings .. £'000	3,176	7,398	7,573	8,251	8,917	9,484
Value of plant and machinery .. £'000	356	2,431	2,469	2,523	2,663	2,746
Horse-power of engines ordinarily in use h.p.	2,607	11,093	10,693	9,339	9,198	9,017

19. Dressmaking and Millinery Establishments.—Particulars of dressmaking and millinery establishments in Australia for the years 1938-39 and 1951-52 to 1955-56 are shown in the following table :—

DRESSMAKING AND MILLINERY : AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55	1955-56.
Number of factories ..	869	1,423	1,405	1,433	1,411	1,410
Number of persons employed ..	16,398	20,912	18,913	19,197	18,014	17,675
Salaries and wages paid .. £'000	1,653	8,412	8,490	9,230	8,975	9,063
Value of power, fuel, etc., used .. £'000	33	149	170	187	176	177
Value of materials used .. £'000	2,610	12,123	11,746	13,634	13,109	13,029
Value of production .. £'000	2,592	12,700	13,193	14,392	14,501	14,585
Total value of output .. £'000	5,235	24,972	25,109	28,213	27,786	27,791
Value of land and buildings .. £'000	2,052	4,588	4,726	5,033	5,256	5,788
Value of plant and machinery .. £'000	189	1,032	1,065	1,108	1,123	1,174
Horse-power of engines ordinarily in use h.p.	1,732	4,899	4,790	4,858	4,740	4,697

20. Shirts, Collars and Underclothing.—Particulars of this industry are shown below for each State for 1955-56 and for Australia for a series of years :—

SHIRTS, COLLARS AND UNDERCLOTHING.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	165	178	20	22	17	2	404
Number of persons employed ..	4,375	6,362	930	(a)	522	(a)	12,686
Salaries and wages paid .. £'000	2,453	3,634	410	(a)	235	(a)	6,957
Value of power, fuel, etc., used .. £'000	44	60	6	(a)	4	(a)	119
Value of materials used .. £'000	6,475	8,321	667	(a)	398	(a)	16,112
Value of production .. £'000	3,904	6,122	641	(a)	349	(a)	11,328
Total value of output .. £'000	10,423	14,503	1,314	(a)	751	(a)	27,559
Value of land and buildings .. £'000	1,093	1,542	163	(a)	103	(a)	2,999
Value of plant and machinery .. £'000	434	577	60	(a)	46	(a)	1,146
Horse-power of engines ordinarily in use .. h.p.	1,458	2,811	260	(a)	180	(a)	4,881

(a) Not available for publication ; figures are included in the total for Australia.

SHIRTS, COLLARS AND UNDERCLOTHING—*continued.*
AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	283	419	379	379	392	404
Number of persons employed	11,081	12,640	9,657	11,156	12,745	12,686
Salaries and wages paid £'000	1,143	5,361	4,397	5,684	6,702	6,957
Value of power, fuel, etc., used £'000	23	82	76	92	106	119
Value of materials used £'000	2,651	12,333	9,670	12,077	15,020	16,112
Value of production £'000	1,761	8,715	7,524	9,377	10,927	11,328
Total value of output £'000	4,435	21,130	17,270	21,546	26,053	27,559
Value of land and buildings £'000	946	2,091	2,151	2,417	2,719	2,999
Value of plant and machinery £'000	231	885	846	905	1,053	1,146
Horse-power of engines ordinarily in use h.p.	1,874	5,189	4,779	4,320	4,468	4,881

21. Boots and Shoes.—(i) *Details of Industry.* The boot and shoe factories hold an important place both in regard to employment afforded and extent of output. The following tables refer 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, being classified under Rubber Goods, *see* para. 38, page 268.

BOOTS AND SHOES.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.
Number of factories	186	226	30	21	10	21	494
Number of persons employed	7,143	10,939	1,511	1,206	607	151	21,557
Salaries and wages paid £'000	4,856	7,270	863	841	382	98	14,310
Value of power, fuel, etc., used £'000	83	114	12	14	8	2	233
Value of materials used £'000	6,661	12,055	1,335	1,098	521	142	21,812
Value of production £'000	7,244	10,291	1,051	1,266	487	141	20,480
Total value of output £'000	13,988	22,460	2,398	2,378	1,016	285	42,525
Value of land and buildings £'000	1,344	1,818	217	260	162	45	3,846
Value of plant and machinery £'000	832	2,033	307	328	128	18	3,646
Horse-power of engines ordinarily in use h.p.	4,673	9,348	898	945	495	126	16,485

AUSTRALIA.

Items.	1945-46.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	383	540	509	520	516	494
Number of persons employed	18,264	22,775	20,920	22,953	22,323	21,557
Salaries and wages paid £'000	4,408	12,405	12,430	14,215	14,241	14,310
Value of power, fuel, etc., used £'000	75	172	197	225	227	233
Value of materials used £'000	7,520	18,058	17,668	20,508	21,020	21,812
Value of production £'000	6,472	17,162	17,162	19,444	19,640	20,480
Total value of output £'000	14,067	35,392	35,027	40,177	40,887	42,525
Value of land and buildings £'000	1,518	3,310	3,227	3,491	3,733	3,846
Value of plant and machinery £'000	1,222	2,402	2,653	3,152	3,380	3,646
Horse-power of engines ordinarily in use h.p.	9,678	18,573	18,214	16,679	17,488	16,485

(a) Includes details of boot and shoe repairing.

(ii) *Quantity and Value of Production.* The number and value of boots, shoes and slippers made in factories producing boots and shoes in each State are shown for 1955-56 in the following table. Particulars relating to the output of sand shoes, goloshes and gum, etc., boots of rubber are not included:—

BOOT AND SHOE FACTORIES : OUTPUT, 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Boots, shoes and sandals pairs	6,912,195	9,506,264	1,277,148	(a)	551,871	(a)	19,815,829
£	12,175,591	18,647,483	2,021,696	(a)	772,590	(a)	35,988,412
Slippers pairs	2,298,534	4,871,801	329,779	68,951	408,081	..	7,977,146
£	1,634,375	2,375,361	175,691	38,767	253,980	..	4,478,174

(a) Not available for publication; figures are included in the total for Australia.

Preliminary figures for 1956-57 were—Boots, Shoes and Sandals, 21,234,000 pairs; and Slippers, 7,852,000 pairs.

22. *Flour-milling.*—(i) *Details of Industry.* The following table shows the position of the flour-milling industry in each State for the year 1955-56 and for Australia for a series of years:—

FLOUR-MILLING.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	51	35.	11	24	20	10	151
Number of persons employed ..	1,621	1,254	(a)	445	510	(a)	4,548
Salaries and wages paid .. £'000	1,594	1,093	(a)	379	434	(a)	4,073
Value of power, fuel, etc., used .. £'000	363	165	(a)	88	116	(a)	835
Value of materials used .. £'000	20,417	15,314	(a)	5,402	6,402	(a)	54,498
Value of production .. £'000	3,354	1,843	(a)	575	723	(a)	7,575
Total value of output .. £'000	24,134	17,322	(a)	6,065	7,241	(a)	62,908
Value of land and buildings .. £'000	2,013	1,230	(a)	291	789	(a)	5,211
Value of plant and machinery .. £'000	2,199	1,289	(a)	467	608	(a)	5,405
Horse-power of engines ordinarily in use h.p.	17,790	14,394	(a)	4,129	5,689	(a)	47,786

(a) Not available for publication; figures are included in the total for Australia.

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	172	162	158	157	151	151
Number of persons employed ..	3,783	4,681	4,892	4,602	4,528	4,548
Salaries and wages paid .. £'000	896	3,466	3,884	3,847	3,851	4,073
Value of power, fuel, etc., used .. £'000	231	730	866	847	805	835
Value of materials used .. £'000	10,573	45,576	51,373	53,946	54,436	54,498
Value of production .. £'000	2,091	7,313	8,296	8,134	7,311	7,575
Total value of output .. £'000	12,895	53,619	60,535	62,927	62,552	62,908
Value of land and buildings .. £'000	2,091	3,606	3,912	4,260	4,533	5,211
Value of plant and machinery .. £'000	1,814	4,106	4,531	4,921	5,060	5,405
Horse-power of engines ordinarily in use h.p.	27,795	41,824	44,781	52,545	46,566	47,786

(ii) *Production of Flour and By-products.* The production of flour by the mills in each State (including other than flour mills) for the years 1938-39 and 1951-52 to 1956-57 was as follows:—

FLOUR-MILLING : PRODUCTION OF FLOUR. (a)

(Tons of 2,000 lb.)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39 ..	547,162	436,829	84,314	146,262	138,583	19,582	1,372,732
1951-52 ..	578,686	559,224	124,703	206,856	223,936	27,745	1,721,150
1952-53 ..	543,693	592,465	132,839	201,685	227,269	28,349	1,726,300
1953-54 ..	603,575	473,842	138,524	164,907	197,654	30,556	1,609,058
1954-55 ..	586,549	455,906	157,904	143,840	178,851	29,969	1,553,019
1955-56 ..	571,084	454,628	169,793	154,327	193,490	27,983	1,571,305
1956-57 (b) ..	608,443	500,329	169,114	165,986	184,860	28,834	1,657,566

(a) Includes wheatmeal for baking and sharps.

(b) Preliminary, subject to revision.

In addition, 610,000 tons (2,000 lb. per ton) of bran and pollard were produced in 1955-56 and 631,000 tons in 1956-57. The total quantity of wheat ground in flour mills was 72,329,000 bushels in 1955-56 and 76,844,000 bushels in 1956-57.

23. **Bakeries.**—Information regarding establishments in which the manufacture of bread, cakes, etc., was carried on is given in the table below. It should be noted, however, that the details refer only to establishments coming within the definition of a factory as explained at the beginning of this section. For that reason, the tables do not give complete details of the industry, as a large number of bakeries, etc. not coming within the definition are excluded. This is true of all other industries covered by the statistics of manufacturing production, but, in view of the omission of such a large number of establishments in this instance, special mention is deemed necessary.

BAKERIES (INCLUDING CAKES AND PASTRY).

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.(a)	Aust.
Number of factories ..	1,576	1,075	485	285	299	158	3,878
Number of persons employed ..	7,497	5,553	2,183	1,603	1,067	1,640	19,543
Salaries and wages paid .. £'000	4,533	3,294	1,100	944	559	1,181	11,611
Value of power, fuel, etc., used .. £'000	866	589	217	164	109	145	2,090
Value of materials used .. £'000	13,687	10,007	3,973	3,058	2,086	5,009	37,820
Value of production .. £'000	10,375	7,476	2,702	2,097	1,326	2,442	26,418
Total value of output .. £'000	24,928	18,072	6,892	5,319	3,321	7,596	66,328
Value of land and buildings .. £'000	6,374	4,767	1,275	1,291	842	1,316	15,865
Value of plant and machinery .. £'000	3,494	2,975	794	792	522	884	9,461
Horse-power of engines ordinarily in use .. h.p.	9,856	6,953	2,855	2,925	1,797	5,149	29,535

AUSTRALIA.(a)

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	1,958	3,347	3,534	3,687	3,800	3,878
Number of persons employed ..	11,715	18,332	18,405	18,758	19,125	19,543
Salaries and wages paid .. £'000	1,993	8,571	9,368	9,954	10,648	11,611
Value of power, fuel, etc., used .. £'000	306	1,486	1,694	1,805	1,902	2,090
Value of materials used .. £'000	6,651	26,451	29,672	32,829	35,899	37,820
Value of production .. £'000	4,509	18,624	21,788	23,107	23,582	26,418
Total value of output .. £'000	11,466	46,561	53,154	57,741	61,383	66,328
Value of land and buildings .. £'000	4,960	10,789	12,145	13,617	14,352	15,865
Value of plant and machinery .. £'000	1,478	5,082	6,073	7,158	8,373	9,461
Horse-power of engines ordinarily in use h.p.	10,855	22,248	23,792	26,462	27,815	29,535

(a) Includes confectionery in Tasmania.

24. **Sugar-mills.**—(i) *General.* Sugar-cane is grown in New South Wales and Queensland and particulars of area, yield, etc., are given in extended detail in Chapter XXII.—Agricultural Production.

The products of the sugar-mill are raw sugar and molasses, the former being sent to the refineries in different parts of Australia for further treatment. Particulars of cane crushed and sugar produced embodied in the following table refer to the quantities treated during the years ended 30th June, irrespective of the season in which the cane was grown ; consequently the figures relating to cane crushed and sugar produced may differ slightly from those given in Chapter XXII.—Agricultural Production, which relate to harvest years.

(ii) *Details for States.* The following table shows details of the operations of sugar mills in New South Wales and Queensland for the years 1938–39 and 1951–52 to 1955–56 :—

SUGAR-MILLS.

Items.	1938–39.	1951–52.	1952–53.	1953–54.	1954–55.	1955–56.
NEW SOUTH WALES.						
Number of factories ..	3	3	3	3	3	3
Number of persons employed ..	212	176	138	156	187	152
Cane crushed .. tons	337,038	321,388	125,714	263,249	222,313	284,539
Raw sugar produced (94 net titre) .. tons	45,106	41,060	14,272	34,004	26,301	36,028
QUEENSLAND.						
Number of factories ..	33	31	31	31	31	31
Number of persons employed ..	4,419	5,612	6,495	7,358	7,272	7,044
Cane crushed .. tons	5,432,193	5,005,172	6,841,536	8,751,063	9,864,304	8,616,163
Raw sugar produced (94 net titre) .. tons	775,064	704,341	934,614	1,220,383	1,301,245	1,135,685
Molasses—						
Sold to distilleries .. '000 gals	8,276	12,557	15,774	23,323	23,167	22,772
Used as fodder .. " "	4,237	5,900	5,887	5,486	5,753	5,285
Used as manure .. " "	3,293	5,484	7,499	11,466	10,501	10,637
Run to waste .. " "	499	37	76	168	233	185
Burnt as fuel .. " "	3,749	1,005	934	183	1,079	1,519
Sold or used for other purposes .. '000 gals	232	324	426	516	473	588
Total molasses disposed of .. '000 gals	20,286	25,307	30,596	41,142	41,206	40,986

25. *Sugar-refining.*—The establishment of the sugar-refining industry considerably antedates the establishment of the sugar-milling industry, the raw material operated on in the earlier years coming chiefly from Mauritius and the East. In 1955–56, there were two sugar refineries in Queensland and one each in New South Wales, Victoria, South Australia and Western Australia. The total quantity of raw sugar treated amounted to 503,268 tons for a yield of 482,660 tons of refined sugar.

26. *Confectionery.*—The figures for 1955–56 for each State and for Australia for a series of years are shown hereunder :—

CONFECTIONERY.
1955–56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	92	90	19	18	7	(a)	226
Number of persons employed ..	2,948	3,315	260	335	325	(a)	7,183
Salaries and wages paid .. £'000	2,114	2,217	117	178	179	(a)	4,805
Value of power, fuel, etc., used .. £'000	241	186	10	20	16	(a)	473
Value of materials used .. £'000	7,648	6,564	549	413	409	(a)	15,583
Value of production .. £'000	4,482	3,699	166	277	308	(a)	8,932
Total value of output .. £'000	12,371	10,449	725	710	733	(a)	24,988
Value of land and buildings .. £'000	1,363	1,556	111	205	89	(a)	3,324
Value of plant and machinery .. £'000	1,604	1,760	54	129	65	(a)	3,612
Horse-power of engines ordinarily in use .. h.p.	12,349	14,163	783	1,414	447	(a)	29,156

AUSTRALIA. (b)

Items.	1938–39.	1951–52.	1952–53.	1953–54.	1954–55.	1955–56.
Number of factories ..	148	250	256	249	238	226
Number of persons employed ..	7,256	7,361	6,873	6,976	7,069	7,183
Salaries and wages paid .. £'000	1,041	4,006	4,084	4,382	4,516	4,805
Value of power, fuel, etc., used .. £'000	107	371	436	444	447	473
Value of materials used .. £'000	3,102	11,997	12,554	13,857	14,917	15,583
Value of production .. £'000	2,418	7,801	7,910	8,307	8,320	8,932
Total value of output .. £'000	5,627	20,169	20,900	22,600	23,684	24,988
Value of land and buildings .. £'000	1,423	2,428	2,510	2,650	2,964	3,324
Value of plant and machinery .. £'000	1,364	2,704	2,872	3,039	3,368	3,612
Horse-power of engines ordinarily in use .. h.p.	16,154	26,887	26,002	28,763	27,374	29,156

(a) Not available for publication. Included with Bakeries.

(b) Excludes Tasmania.

27. Jam, Fruit and Vegetable Canning, Pickles, Sauces, Vinegar.—(i) *Details of Industry.* The following table shows particulars of factories included in this class for each State for 1955-56 and for Australia for a series of years :—

JAM, FRUIT AND VEGETABLE CANNING, PICKLES, SAUCES, VINEGAR.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	55	60	16	20	9	23	183
Number of persons employed ..	2,790	4,475	1,775	1,128	139	1,271	11,578
Salaries and wages paid .. £'000	2,098	3,621	1,367	816	86	936	8,924
Value of power, fuel, etc., used .. £'000	230	370	77	52	6	67	802
Value of materials used .. £'000	7,689	14,533	5,241	2,153	306	2,401	32,323
Value of production .. £'000	4,131	7,221	2,074	1,089	173	1,415	16,103
Total value of output .. £'000	12,050	22,124	7,392	3,294	485	3,883	49,228
Value of land and buildings .. £'000	1,722	5,090	707	495	134	726	8,874
Value of plant and machinery .. £'000	1,564	4,696	514	464	43	802	8,083
Horse-power of engines ordinarily in use .. h.p.	9,563	20,239	2,863	1,968	278	3,597	38,508

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	123	201	204	197	184	183
Number of persons employed ..	6,476	13,152	10,845	11,101	11,061	11,578
Salaries and wages paid .. £'000	1,149	7,793	9,391	7,870	7,945	8,924
Value of power, fuel, etc., used .. £'000	97	672	636	660	699	802
Value of materials used .. £'000	4,800	28,286	27,228	28,875	29,708	32,323
Value of production .. £'000	2,334	13,623	12,662	14,992	15,312	16,103
Total value of output .. £'000	7,231	42,581	40,526	44,527	45,719	49,228
Value of land and buildings .. £'000	1,382	5,031	6,025	6,137	6,193	8,874
Value of plant and machinery .. £'000	721	4,425	5,095	5,404	5,496	8,083
Horse-power of engines ordinarily in use h.p.	7,873	29,792	30,241	31,721	32,661	38,508

(ii) *Production.* During the 1939-45 War, production of jams increased greatly and an output of 171 million lb. was attained in 1943-44. Production afterwards decreased, but attained a new record of 198.5 million lb. in 1947-48. It dropped to 84.1 million lb. in 1955-56. Preliminary figures for 1956-57 show production as being 91.2 million lb.

The peak output of preserved fruit occurred in 1953-54 with 338.6 million lb. compared with the previous highest level of 256.1 million lb. attained in 1951-52. Production in 1955-56 was 304.3 million lb. and preliminary figures for 1956-57 show production as being 297.6 million lb.

There has also been a marked development in the production of canned vegetables. In 1938-39, output totalled 10.3 million lb. but, as a result of the war-time demand by the armed services, production reached the record level of 119.1 million lb. in 1944-45. However, it has since declined and in 1955-56 amounted to 77.8 million lb. Preliminary figures for 1956-57 show production as being 97.2 million lb.

The following table shows the total quantity and value of jams, pickles, sauces and other items manufactured in each State in 1955-56 :—

JAMS, PRESERVED FRUIT AND VEGETABLES, PICKLES AND SAUCES : 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Jams .. '000 lb.	22,970	33,000	11,473	6,111	(a)	(a)	84,096
Fruit, preserved .. '000 lb.	41,122	127,984	80,255	31,070		23,868	304,299
Fruit Pulp(b) .. cwt.	48,201	229,135	11,092	9,112	8,199	122,884	428,623
Fruit Juices, natural .. '000 gals.	276	166	1,990	256	208	120	3,016
Vegetables, preserved .. '000 lb.	31,124	31,071	(a)	1,573	(a)	(a)	77,822
Pickled Vegetables .. " "	2,314	1,065	(a)	1,208	(a)		4,944
Tomato Pulp(b) .. cwt.	51,534	339,272	(a)	32,114	24,558	(a)	450,106
Tomato Paste, Purée, etc., '000 pints	654	1,057		(a)	(a)		1,934
Tomato Juice .. '000 gals.	96	725		(a)	(a)		1,209
Pickles .. '000 pints	3,844	2,214	(a)	(a)	128		7,721
Chutney .. " "	514	449	479	(a)	(a)		1,592
Sauces .. " "	11,554	12,122	1,794	2,128	(a)	(a)	28,668
Soup (canned) .. " "	5,063	29,879	(a)	(a)	(a)	(a)	35,316
Soup, Dry Mix .. '000 lb.	3,059	571	(a)	(a)	(a)		3,771

(a) Not available for publication. Figures are included in the total for Australia.

(b) Including quantities made and used in the works producing them.

28. **Bacon-curing.**—(i) *Details of Industry.* The table hereunder shows particulars of factories engaged in bacon-curing in each State for 1955-56 and for Australia for a series of years :—

BACON-CURING.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	31	15	9	13	4	10	82
Number of persons employed ..	663	776	1,189	420	267	99	3,414
Salaries and wages paid .. £'000	569	666	878	374	184	83	2,754
Value of power, fuel, etc., used £'000	81	75	83	58	33	9	339
Value of materials used .. £'000	5,175	4,469	6,124	2,310	2,104	632	20,814
Value of production .. £'000	1,352	1,091	1,698	467	209	180	4,997
Total value of output .. £'000	6,608	5,635	7,905	2,835	2,346	821	26,150
Value of land and buildings £'000	504	593	654	317	113	127	2,308
Value of plant and machinery £'000	250	301	454	244	49	31	1,329
Horse-power of engines ordinarily in use .. h.p.	2,113	3,014	4,578	1,946	878	490	13,019

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	76	83	85	85	84	82
Number of persons employed ..	2,047	2,838	2,994	2,975	3,201	3,414
Salaries and wages paid .. £'000	480	1,895	2,225	2,270	2,517	2,754
Value of power, fuel, etc., used .. £'000	77	251	292	298	322	339
Value of materials used .. £'000	3,768	16,269	18,836	19,448	18,318	20,814
Value of production .. £'000	865	3,907	4,026	4,410	5,715	4,997
Total value of output .. £'000	4,710	20,427	23,154	24,156	24,355	26,150
Value of land and buildings .. £'000	750	1,356	1,635	1,737	1,956	2,308
Value of plant and machinery .. £'000	357	724	917	955	1,100	1,329
Horse-power of engines ordinarily in use .. h.p.	9,389	10,700	11,636	11,685	11,791	13,019

(ii) *Quantity of Production.* The number of pigs cured and the quantity of bacon and ham and lard produced in factories in each State for 1955-56 are shown in the following table :—

BACON-CURING FACTORIES : PIGS CURED AND PRODUCTION, 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Pigs killed for bacon and ham—							
For curing on own account	206,798	152,608	240,608	70,125	88,214	33,161	790,846
For curing on commission	10,381	1,991	836	818			
Pork and green bacon used for—							
Curing on own account '000 lb.	1,569	2,773	(a)	724	(a)	..	5,939
Curing on commission '000 lb.	3,991	..	(a)	(a)	(a)	..	4,113
Sugar used .. ton	50	23	134	19	30	13	269
Finished bacon and ham made (b)—							
On own account '000 lb.	18,647	14,832	20,169	7,314	7,220	2,148	70,330
On commission ..	4,711	239	204	92	17	48	5,311
Green bacon and ham ..	(a)	1,628	546	543	774	(a)	4,353
Lard produced .. cwt.	3,196	6,832	20,484	4,452	6,113	1,369	42,446

(a) Not available for publication; figures are included in the total for Australia. (b) Includes smoked bacon and ham, cooked ham (not smoked) made for retail sale, and canned bacon and ham.

Bacon and ham and other pig products are dealt with more fully in Chapter XXIV.—Farmyard, Dairy and Bee Products.

29. **Butter, Cheese and Condensed and Dried Milk.**—(i) *Details of Industry.* The following table shows particulars of butter, cheese and condensed and dried milk factories in each State for 1955-56 and for Australia for a series of years.

BUTTER, CHEESE AND CONDENSED AND DRIED MILK.
1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	77	130	85	42	18	23	375
Number of persons employed ..	2,542	5,443	1,675	815	292	352	11,119
Salaries and wages paid .. £'000	2,128	5,035	1,275	600	230	300	9,568
Value of power, fuel, etc., used .. £'000	712	1,522	266	115	65	61	2,741
Value of materials used .. £'000	19,389	50,252	23,846	5,765	3,302	4,329	106,883
Value of production .. £'000	3,611	10,678	2,423	1,023	496	662	18,893
Total value of output .. £'000	23,712	62,452	26,535	6,903	3,863	5,052	128,517
Value of land and buildings .. £'000	3,212	5,161	1,673	628	227	287	11,188
Value of plant and machinery .. £'000	3,886	6,168	2,575	702	338	254	13,923
Horse-power of engines ordinarily in use .. h.p.	29,953	37,239	23,439	6,898	2,345	2,308	102,182

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	523	399	384	380	379	375
Number of persons employed ..	6,851	10,473	10,641	10,580	10,567	11,119
Salaries and wages paid .. £'000	1,570	7,186	8,098	8,416	8,680	9,568
Value of power, fuel, etc., used .. £'000	390	1,837	2,339	2,396	2,423	2,741
Value of materials used .. £'000	29,162	68,038	97,291	94,020	100,706	106,883
Value of production .. £'000	3,543	12,535	14,350	15,914	15,394	18,893
Total value of output .. £'000	33,095	82,410	113,980	112,330	118,523	128,517
Value of land and buildings .. £'000	2,880	6,585	7,571	9,365	10,037	11,188
Value of plant and machinery .. £'000	3,067	8,569	10,250	12,083	12,553	13,923
Horse-power of engines ordinarily in use .. h.p.	45,059	77,439	84,428	94,863	98,442	102,182

(ii) *Quantity and Value of Production.* The next table shows the quantities and values of butter, cheese and condensed milk produced and the quantities of milk used in their production during 1955-56. These details are restricted to factory production and therefore exclude farm output.

BUTTER, CHEESE AND CONDENSED MILK, ETC., FACTORIES : PRODUCTION, 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
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MATERIALS USED.

Whole Milk used in manufacture of							
Butter '000 gal.	184,285	422,116	215,992	35,449	33,461	46,304	937,607
Cheese	7,405	29,757	16,884	27,467	(a)	(a)	83,790
Condensed, Dried and other Milk Products '000 gal.	16,925	65,427	3,302	(a)	(a)	(a)	91,721
Sugar ton	(a)	14,636	(a)	..	(a)	(a)	17,014

PRODUCTION.

	Ton.	Ton.	Ton.	Ton.	Ton.	Ton.	Ton.
Butter	41,066	90,608	48,189	8,562	7,404	9,962	205,791
Cheese (Green Weight)	3,379	13,996	7,579	12,633	763	331	38,681
Condensed Milk (Sweetened and Unsweetened)	(a)	40,824	..	..	(a)	..	44,360
Concentrated—							
Whole Milk	(a)	(a)	(a)	..	(a)	(a)	13,856
Skim Milk	(a)	(a)	(a)	..	(a)	..	2,322
Powdered Full Cream Milk—							
Spray	(a)	10,809	(a)	(a)	..	..	16,481
Roller	(a)	280	(a)	..	..	..	730
Infants' and Invalids' Foods (including Malted Milk and Milk Sugar (Lactose))	(a)	(a)	..	..	..	(a)	12,861
Powdered Skim Milk—							
Spray	8,207	12,908	(a)	(a)	(a)	(a)	21,362
Roller	2,885	6,068	(a)	(a)	(a)	(a)	9,530
Buttermilk and Whey Powder	648	2,754	1,298	(a)	(a)	..	4,990
Caseln	(a)	(a)	(a)	..	..	..	9,367
Ice Cream Mix—							
Powder	(a)	(a)	..	(a)	(a)	..	488
Liquid	(a)	(a)	(a)	..	..	..	2,832
Processed Cheese, Cheese Paste and Cheese Spreads(b)	(a)	(a)	(a)	..	..	..	13,892

(a) Not available for publication; figures are included in the total for Australia. (b) The cheese used in the manufacture of these products is included in Cheese (Green Weight) made as shown above.

The butter, cheese and condensed milk industries are dealt with more fully in Chapter XXIV.—Farmyard, Dairy and Bee Products.

30. **Meat and Fish Preserving.**—The industries included in this group are engaged chiefly in the freezing and preserving of meat. 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. The substitution of chilled for frozen meat exported is referred to in Chapter XXIII.—Pastoral Production. In recent years, there has been considerable expansion in the canning of meat and fish.

MEAT AND FISH PRESERVING. 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	12	17	29	19	35	4	116
Number of persons employed ..	710	756	6,659	240	1,136	49	9,550
Salaries and wages paid .. £'000	535	715	6,230	165	1,015	44	8,704
Value of power, fuel, etc., used .. £'000	80	131	757	21	124	6	1,119
Value of materials used .. £'000	3,280	5,628	33,084	1,081	3,209	77	46,359
Value of production .. £'000	853	1,349	10,316	249	1,512	66	14,345
Total value of output .. £'000	4,214	7,107	44,157	1,351	4,845	149	61,823
Value of land and buildings .. £'000	278	732	2,992	142	1,736	54	5,934
Value of plant and machinery .. £'000	344	845	1,977	169	757	26	4,118
Horse-power of engines ordinarily in use h.p.	1,846	3,652	19,454	1,070	6,717	347	33,086

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	32	87	98	106	114	116
Number of persons employed ..	4,093	7,386	8,771	9,113	9,432	9,550
Salaries and wages paid .. £'000	1,180	5,222	6,820	7,395	8,327	8,704
Value of power, fuel, etc., used .. £'000	134	742	972	1,015	1,110	1,119
Value of materials used .. £'000	6,351	33,828	47,637	46,671	46,642	46,359
Value of production .. £'000	1,601	8,751	12,126	11,374	12,182	14,345
Total value of output .. £'000	8,086	43,321	60,735	59,060	59,934	61,823
Value of land and buildings .. £'000	1,966	3,990	4,562	4,500	5,403	5,934
Value of plant and machinery .. £'000	1,325	2,623	2,786	2,826	3,409	4,118
Horse-power of engines ordinarily in use h.p.	13,385	34,510	33,328	31,810	35,600	33,086

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 Chapter XXIII.—Pastoral Production.

31. **Breweries.**—(i) *Details of Industry.* The following table gives particulars of breweries in each State for the year 1955-56 and for Australia for a series of years. It should be noted, however, that the data shown are not strictly comparable throughout, owing to the inability or failure of some breweries to furnish a separate return for each branch of activity. Consequently the figures for some States include details of employment, wages, output, etc., not connected with the brewing of beer, although associated with it. These extraneous activities include cooperage, malt works, aerated waters, etc.

BREWERIES. 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	8	6	6	3	3	2	28
Number of persons employed ..	1,918	2,651	844	(a)	(a)	(a)	6,835
Salaries and wages paid .. £'000	1,972	2,596	692	(a)	(a)	(a)	6,588
Value of power, fuel, etc., used .. £'000	532	357	177	(a)	(a)	(a)	1,395
Value of materials used .. £'000	8,418	7,543	1,922	(a)	(a)	(a)	22,437
Value of production .. £'000	5,544	3,936	2,101	(a)	(a)	(a)	15,224
Total value of output (b) .. £'000	14,494	11,836	4,200	(a)	(a)	(a)	39,057
Value of land and buildings .. £'000	2,999	2,573	2,570	(a)	(a)	(a)	10,099
Value of plant and machinery .. £'000	4,365	3,448	1,841	(a)	(a)	(a)	12,917
Horse-power of engines ordinarily in use h.p.	17,176	11,654	7,290	(a)	(a)	(a)	44,908

(a) Not available for publication; figures are included in the total for Australia.
Excise Duty.

(b) Excludes

BREWERIES—continued.

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	34	31	32	31	30	28
Number of persons employed ..	3,698	5,914	5,904	6,193	6,791	6,835
Salaries and wages paid .. £'000	1,215	4,564	5,030	5,325	6,272	6,588
Value of power, fuel, etc., used .. £'000	251	1,145	1,388	1,366	1,369	1,396
Value of materials used .. £'000	3,407	11,739	16,452	19,975	20,810	22,437
Value of production .. £'000	5,372	10,298	11,458	13,048	14,855	15,224
Total value of output (a) .. £'000	9,030	23,182	29,298	34,389	37,034	39,057
Value of land and buildings .. £'000	2,801	5,715	6,480	7,256	8,307	10,099
Value of plant and machinery .. £'000	2,737	4,832	5,870	7,681	10,295	12,917
Horse-power of engines ordinarily in use h.p.	23,231	30,181	32,754	38,803	42,359	44,908

(a) Excludes Excise Duty.

(ii) *Production, Consumption, Materials Used.* The quantity of ale, beer and stout brewed fell from 73.7 million gallons in 1928-29 to 49.8 million gallons in 1931-32, but thereafter increased each year to 109.2 million gallons in 1941-42. Under the Control of Liquor Order which operated between March, 1942 and March, 1946, the production of beer was restricted and consequently annual output remained static at about 100 million gallons from 1942-43 to 1944-45. Thereafter production increased, and in 1956-57 amounted to over 220 million gallons.

The average annual consumption of ale, beer and stout prior to the economic depression of the early thirties exceeded 11 gallons per head of the population : it dropped to 7.32 gallons in 1931-32, increased to 13.76 gallons in 1941-42 and declined again to about 13 gallons during the period of control. The consumption per head had increased to 22.88 gallons by 1956-57.

The table below shows the quantities of materials used and the quantity and value of ale, beer (excluding waste beer) and stout brewed in each State during 1955-56 :—

BREWERIES : MATERIALS USED AND PRODUCTION, 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
MATERIALS USED.							
Malt '000 bus.	2,547	2,161	741	(a)	(a)	(a)	6,820
Hops '000 lb.	2,168	1,214	522	(a)	(a)	(a)	4,887
Sugar ton	21,911	13,191	4,361	(a)	(a)	(a)	46,289

ALE, BEER AND STOUT BREWED (EXCLUDING WASTE BEER).

Quantity .. '000 gals.	93,297	68,510	22,933	(a)	(a)	(a)	227,496
Value (b) .. £'000	14,337	11,729	4,178	(a)	(a)	(a)	38,528

(a) Not available for publication ; figures are included in the total for Australia. (b) Excludes Excise Duty.

32. *Wineries and Distilleries.*—The following table shows particulars of the operations of Wineries and Distilleries for each State during 1955-56 and for Australia for a series of years.

WINERIES AND DISTILLERIES.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	28	29	5	71	22	..	155
Number of persons employed ..	215	333	172	1,122	66	..	1,908
Salaries and wages paid .. £'000	206	265	147	882	32	..	1,532
Value of power, fuel, etc., used .. £'000	97	80	72	116	3	..	368
Value of materials used .. £'000	865	671	357	3,048	133	..	5,074
Value of production .. £'000	538	574	292	1,389	97	..	2,890
Total value of output .. £'000	1,500	1,325	721	4,553	233	..	8,332
Value of land and buildings .. £'000	426	310	122	1,325	71	..	2,254
Value of plant and machinery .. £'000	415	274	357	1,005	48	..	2,099
Horse-power of engines ordinarily in use h.p.	1,437	2,435	590	6,370	327	..	11,159

WINERIES AND DISTILLERIES—*continued.*

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	135	158	167	164	158	155
Number of persons employed ..	1,133	2,277	2,021	1,981	2,022	1,908
Salaries and wages paid .. £'000	246	1,416	1,431	1,475	1,506	1,532
Value of power, fuel, etc., used .. £'000	58	383	333	365	387	368
Value of materials used .. £'000	1,421	7,076	5,464	5,721	4,885	5,074
Value of production .. £'000	811	3,118	3,198	3,254	2,846	2,890
Total value of output .. £'000	2,290	10,577	8,995	9,340	8,118	8,332
Value of land and buildings .. £'000	1,002	1,920	2,104	2,284	2,312	2,254
Value of plant and machinery .. £'000	916	1,774	1,913	2,108	2,170	2,099
Horse-power of engines ordinarily in use h.p.	4,396	11,038	10,995	11,275	11,054	11,159

33. Tobacco, Cigars and Cigarettes.—Particulars of establishments in which the manufacture of tobacco, cigars or cigarettes was carried on during 1955-56 are shown below for each State and for Australia for a series of years. There are no such factories in South Australia or Tasmania.

TOBACCO, CIGARS AND CIGARETTES.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	W. Aust.	Aust.
Number of factories	14	12	5	2	33
Number of persons employed ..	2,371	2,125	(a)	(a)	4,622
Salaries and wages paid .. £'000	1,972	1,678	(a)	(a)	3,728
Value of power, fuel, etc., used .. £'000	74	50	(a)	(a)	128
Value of materials used .. £'000	17,374	13,613	(a)	(a)	31,227
Value of production .. £'000	4,763	4,394	(a)	(a)	9,244
Total value of output(b) .. £'000	22,211	18,057	(a)	(a)	40,599
Value of land and buildings .. £'000	381	1,064	(a)	(a)	1,867
Value of plant and machinery .. £'000	1,110	1,450	(a)	(a)	2,784
Horse-power of engines ordinarily in use .. h.p.	7,228	3,083	(a)	(a)	10,778

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	30	36	37	36	34	33
Number of persons employed ..	5,544	4,971	4,704	4,757	4,707	4,622
Salaries and wages paid .. £'000	1,096	2,932	3,204	3,417	3,516	3,728
Value of power, fuel, etc., used .. £'000	34	126	144	151	158	128
Value of materials used .. £'000	7,081	19,419	22,416	26,835	28,825	31,227
Value of production .. £'000	2,685	5,206	7,078	8,341	9,745	9,244
Total value of output(b) .. £'000	9,800	24,751	29,638	35,327	38,728	40,599
Value of land and buildings .. £'000	1,042	1,598	1,741	1,822	1,504	1,867
Value of plant and machinery .. £'000	943	1,284	1,458	1,917	2,190	2,784
Horse-power of engines ordinarily in use h.p.	4,610	5,862	6,028	6,919	8,466	10,778
Leaf used—						
Australian (stemmed) .. '000 lb.	4,489	3,664	4,222	4,866	4,482	5,204
Imported (stemmed) .. '000 lb.	16,011	26,131	28,410	33,076	36,053	37,399
Tobacco made '000 lb.	16,305	21,615	22,334	23,400	21,466	18,836
Cigars made '000 lb.	238	175	129	143	151	132
Cigarettes made '000 lb.	6,731	11,749	13,879	18,303	22,859	27,162

(a) Not available for publication; figures are included in the total for Australia. (b) Excludes Excise Duty.

For many years the production of locally-grown leaf was comparatively small, and manufacturers were dependent on imported leaf for the supply of their raw materials. Increased import duties stimulated local production, and the quantity of Australian leaf used by manufacturers rose from 1.2 million lb. in 1929-30 to over 3 million lb. in 1930-31. During the 1939-45 War, about 4.7 million lb. of Australian-grown leaf was used annually, and the 1955-56 usage was 5.2 million lb. For further information *see* Chapter XXII.—Agricultural Production.

Imports of tobacco during 1955-56 comprised—manufactured tobacco, 276,374 lb.; cigars, 54,414 lb.; cigarettes, 971,436 lb.; unmanufactured tobacco, 45,814,570 lb. and in 1956-57 were 236,314 lb., 256,170 lb., 464,076 lb. and 40,765,547 lb. respectively.

34. Sawmills, etc.—The most important industry in Class X. is sawmilling. Because of difficulties associated with the classifying of sawmills into forest and town mills, they have been combined in the following table, together with plywood and veneer mills.

SAWMILLS AND PLYWOOD AND VENEER MILLS.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	1,065	640	617	87	261	355	3,025
Number of persons employed ..	10,855	7,949	8,563	2,283	4,709	2,743	37,102
Salaries and wages paid .. £'000	7,997	6,159	5,745	1,808	3,367	2,010	27,086
Value of power, fuel, etc., used £'000	633	444	325	80	274	182	1,938
Value of materials used .. £'000	22,438	14,601	11,563	6,984	5,707	4,325	65,618
Value of production .. £'000	14,409	10,546	9,783	3,172	5,642	3,490	47,042
Total value of output .. £'000	37,480	25,591	21,671	10,236	11,623	7,997	114,598
Value of land and buildings £'000	4,041	2,548	1,615	1,278	1,051	603	11,136
Value of plant and machinery £'000	4,633	3,536	3,091	1,114	1,777	2,050	16,201
Horse-power of engines ordinarily in use h.p.	116,152	85,360	79,091	19,948	37,430	33,022	371,003

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories	1,639	3,113	3,245	3,117	3,033	3,025
Number of persons employed ..	19,056	35,646	34,541	35,448	36,631	37,102
Salaries and wages paid .. £'000	3,626	20,084	21,367	23,536	25,530	27,086
Value of power, fuel, etc., used £'000	225	1,399	1,547	1,639	1,805	1,938
Value of materials used .. £'000	8,441	49,131	46,585	53,908	61,073	65,618
Value of production .. £'000	5,762	35,935	35,663	39,799	45,319	47,042
Total value of output .. £'000	14,428	86,465	83,795	95,346	108,197	114,598
Value of land and buildings £'000	2,029	7,108	8,043	8,775	10,321	11,136
Value of plant and machinery £'000	2,777	10,864	11,906	12,504	14,896	16,201
Horse-power of engines ordinarily in use h.p.	89,843	310,387	332,736	336,951	359,786	371,003

The sawmill output of native timber, which declined from 740 million super. feet in 1925-26 to the abnormally low figure of 237 million super. feet during the depth of the depression, recovered to 717 million super. feet in 1938-39 and by 1956-57 had risen to 1,434 million super. feet. Further reference is made to the sawmilling industry in Chapter XXV.—Forestry.

35. Cabinet and Furniture Making and Upholstery.—These industries constitute the principal manufactures in Class XI. The following table shows particulars for each State in 1955-56 :—

CABINET AND FURNITURE MAKING AND UPHOLSTERY, 1955-56.

Items	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	547	527	238	118	152	60	1,642
Number of persons employed ..	5,348	4,555	2,350	1,481	1,102	414	15,250
Salaries and wages paid .. £'000	4,210	3,303	1,369	1,036	679	243	10,840
Value of power, fuel, etc., used £'000	117	72	32	28	18	5	272
Value of materials used .. £'000	7,161	4,805	2,299	1,737	1,157	311	17,470
Value of production .. £'000	6,482	5,476	2,090	1,548	1,084	384	17,064
Total value of output .. £'000	13,760	10,353	4,421	3,313	2,259	700	34,806
Value of land and buildings £'000	2,510	2,331	745	509	529	175	6,799
Value of plant and machinery £'000	737	735	323	263	181	53	2,292
Horse-power of engines ordinarily in use h.p.	14,755	15,303	7,087	5,000	3,410	1,402	46,957

36. Printing Works.—Printing and bookbinding rank high in importance among the industries of Australia, and in 1955-56 afforded employment for 38,899 employees, and paid £32,694,000 in salaries and wages, while the value of output amounted to £105,857,000. The first table below gives particulars of establishments engaged in general printing in each

State for 1955-56. These establishments include those engaged in lithographic printing, bookbinding, paper ruling and linotyping and Government printing works. Establishments producing newspapers and periodicals are shown separately in the second table to follow :—

GOVERNMENT AND GENERAL PRINTING WORKS, 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
Number of factories	549	516	103	87	71	21	1,347
Number of persons employed ..	9,989	8,707	2,245	1,649	1,366	597	24,453
Salaries and wages paid .. £'000	8,280	7,043	1,507	1,227	926	438	19,421
Value of power, fuel, etc., used £'000	265	182	37	30	28	9	551
Value of materials used .. £'000	12,082	9,191	1,594	1,341	1,083	501	25,792
Value of production .. £'000	14,061	11,506	2,288	1,889	1,682	649	32,075
Total value of output .. £'000	26,408	20,879	3,919	3,260	2,793	1,159	58,418
Value of land and buildings .. £'000	4,631	4,852	797	621	554	260	11,715
Value of plant and machinery .. £'000	5,324	5,490	886	951	648	261	13,560
Horse-power of engines ordinarily in use h.p.	15,672	12,867	2,395	2,040	1,858	835	35,667

NEWSPAPERS AND PERIODICALS, 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	183	112	59	34	23	5	416
Number of persons employed ..	6,412	3,508	2,209	1,170	738	409	14,446
Salaries and wages paid .. £'000	5,909	3,393	1,769	1,098	698	406	13,273
Value of power, fuel, etc., used £'000	248	118	69	34	36	6	511
Value of materials used .. £'000	10,192	7,049	2,680	1,962	1,292	316	23,491
Value of production .. £'000	10,740	5,676	3,051	1,974	1,441	555	23,437
Total value of output .. £'000	21,180	12,843	5,800	3,970	2,769	877	47,439
Value of land and buildings .. £'000	5,644	1,372	954	733	494	217	9,414
Value of plant and machinery .. £'000	4,871	2,854	1,444	680	747	120	10,716
Horse-power of engines ordinarily in use h.p.	17,783	10,406	5,393	3,226	2,805	692	40,305

37. **Paper Making.**—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.

Plants producing pulp from eucalypt timber are operating in Victoria and Tasmania, whilst in South Australia pulp is being produced from locally-grown softwoods. The production of pulp rose from 6,000 tons in 1938-39 to 88,000 tons in 1946-47. It remained at about this level until 1949-50 but has since increased steadily to a total of 186,000 tons in 1955-56.

The number of factories operating in 1955-56 comprised four in New South Wales, seven in Victoria, one in Queensland, South Australia, and Western Australia and three in Tasmania. In Tasmania, newsprint, writing and printing papers are produced, and in the other States wrappings, other papers and boards. Particulars for this industry are shown in the following table.

PAPER MAKING, INCLUDING PULP MILLS : AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56. (a)
Number of factories	7	16	17	18	20	17
Number of persons employed ..	1,961	7,237	6,441	7,179	7,611	7,480
Salaries and wages paid .. £'000	467	5,852	5,338	6,130	7,095	7,813
Value of power, fuel, etc., used .. £'000	201	1,610	1,649	2,048	2,560	2,735
Value of materials used .. £'000	1,096	14,558	12,637	15,198	17,474	18,963
Value of production .. £'000	1,005	12,623	11,085	15,451	18,294	17,330
Total value of output .. £'000	2,302	28,791	25,371	32,697	38,328	39,028
Value of land and buildings .. £'000	850	6,820	7,324	8,106	8,255	9,312
Value of plant and machinery .. £'000	1,713	12,961	15,263	16,810	18,050	18,640
Horse-power of engines ordinarily in use h.p.	31,548	112,469	127,558	141,373	157,948	164,123

(a) Excludes several establishments previously included, engaged in processing but not manufacturing paper.

38. **Rubber Goods.**—The following table shows particulars of this industry for each State during 1955-56 but excludes establishments engaged primarily in the retreading and repairing of tyres.

RUBBER GOODS, 1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	40	54	12	8	2	1	117
Number of persons employed ..	6,405	6,122	1,261	655	(a)	(a)	14,480
Salaries and wages paid .. £'000	6,189	5,819	944	640	(a)	(a)	13,616
Value of power, fuel, etc., used .. £'000	853	816	97	63	(a)	(a)	1,831
Value of materials used .. £'000	17,878	16,170	3,341	899	(a)	(a)	38,329
Value of production .. £'000	8,057	10,267	1,850	1,006	(a)	(a)	21,211
Total value of output .. £'000	26,788	27,253	5,288	1,968	(a)	(a)	61,371
Value of land and buildings .. £'000	2,253	2,949	448	125	(a)	(a)	5,841
Value of plant and machinery .. £'000	2,232	4,405	298	204	(a)	(a)	7,156
Horse-power of engines ordinarily in use .. h.p.	45,021	50,882	7,842	2,805	(a)	(a)	106,720

(a) Not available for publication ; figures are included in the total for Australia.

39. **Electric Light and Power Works.**—(i) *Details of Industry.* The increased demand for electrical energy has been responsible for considerable development in electric light and power works during recent years. For further information on this subject see Chapter VIII.—Electric Power Generation and Distribution. Particulars of the industry for each State during the year 1955-56 and for Australia for a series of years are shown below :—

ELECTRIC LIGHT AND POWER WORKS.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories ..	78	57	57	42	90	8	332
Number of persons employed ..	5,348	3,007	1,513	(a)	949	(a)	12,111
Salaries and wages paid .. £'000	5,622	3,315	1,287	(a)	1,000	(a)	12,497
Value of power, fuel, etc., used .. £'000	15,477	9,737	5,405	(a)	3,302	(a)	37,479
Value of materials used .. £'000	1,693	341	1,416	(a)	368	(a)	4,090
Value of production .. £'000	20,707	11,397	2,982	(a)	2,664	(a)	43,219
Total value of output .. £'000	37,877	21,475	9,803	(a)	6,334	(a)	84,788
Value of land and buildings .. £'000	18,336	12,845	7,592	(a)	1,838	(a)	73,688
Value of plant and machinery .. £'000	46,338	49,071	24,658	(a)	10,469	(a)	158,377
Generators installed — Kilowatt capacity .. '000 kW	1,661	989	483	(a)	261	(a)	4,140

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56.
Number of factories ..	395	331	349	351	351	332
Number of persons employed ..	6,508	10,381	10,891	11,395	11,927	12,111
Salaries and wages paid .. £'000	1,977	8,178	9,675	10,308	11,457	12,497
Value of power, fuel, etc., used .. £'000	3,239	28,724	32,205	35,083	36,548	37,479
Value of materials used .. £'000	530	3,481	3,296	4,800	4,170	4,090
Value of production .. £'000	8,714	18,065	24,582	30,098	37,568	43,219
Total value of output .. £'000	12,483	50,270	60,083	69,981	78,286	84,788
Value of land and buildings .. £'000	8,388	21,641	29,531	47,369	60,120	73,688
Value of plant and machinery .. £'000	27,751	66,630	94,169	122,773	146,273	158,377

(a) Not available for publication ; figures are included in the total for Australia.

Particulars of the types of engines and generators installed in Electric Light and Power Works and their rated horse-power are given on page 217.

(ii) *Production.* The increase in the production of electric light and power in each of the States since 1938-39 is shown in the following table :—

ELECTRIC LIGHT AND POWER WORKS : ELECTRICITY PRODUCED.

(Million kWh.)

Year.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
1938-39 ..	1,948	1,223	387	256	307	567	4,688
1949-50 ..	3,758	2,706	972	594	417	1,062	9,509
1951-52 ..	4,628	2,964	1,242	788	530	1,145	11,297
1952-53 ..	4,868	3,193	1,349	822	569	1,244	12,045
1953-54 ..	5,450	3,693	1,511	955	627	1,471	13,707
1954-55 ..	5,951	4,152	1,658	1,119	703	1,589	15,172
1955-56 ..	6,505	4,628	1,786	1,204	753	1,794	16,670
1956-57(a) ..	6,993	4,991	2,032	1,356	786	2,216	18,374

(a) Preliminary—subject to revision.

40. Gas-works.—(i) *Details of Industry.* Gas-works are in operation in the majority of important towns in Australia. The following table shows particulars of gas-works in each State for the year 1955-56 and for Australia for a series of years :—

GAS-WORKS.

1955-56.

Items.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Number of factories	38	32	16	3	4	2	95
Number of persons employed ..	1,472	1,529	401	(a)	191	(a)	4,087
Salaries and wages paid .. £'000	1,592	1,580	321	(a)	173	(a)	4,148
Value of power, fuel, etc., used .. £'000	1,979	135	35	(a)	105	(a)	2,297
Value of materials used .. £'000	6,188	5,882	1,011	(a)	640	(a)	15,350
Value of production .. £'000	4,910	2,805	767	(a)	280	(a)	9,272
Total value of output .. £'000	13,077	8,822	1,813	(a)	1,025	(a)	26,919
Value of land and buildings .. £'000	1,376	659	308	(a)	144	(a)	2,748
Value of plant and machinery .. £'000	6,115	7,357	1,727	(a)	1,580	(a)	19,828
Horse-power of engines ordinarily in use h.p.	25,283	10,836	2,276	(a)	1,212	(a)	42,082

AUSTRALIA.

Items.	1938-39.	1951-52.	1952-53.	1953-54.	1954-55.	1955-56
Number of factories	107	100	99	98	97	95
Number of persons employed ..	2,931	4,042	4,199	4,141	4,103	4,087
Salaries and wages paid .. £'000	785	3,207	3,553	3,767	3,882	4,148
Value of power, fuel, light, etc., used .. £'000	251	1,777	2,080	2,244	2,291	2,297
Value of materials used .. £'000	1,872	13,401	15,576	15,249	15,187	15,350
Value of production .. £'000	2,694	7,165	8,473	8,121	9,103	9,272
Total value of output .. £'000	4,817	22,343	26,129	25,614	26,581	26,919
Value of land and buildings .. £'000	1,463	2,186	2,342	2,416	2,488	2,748
Value of plant and machinery .. £'000	7,498	13,846	15,962	17,235	19,134	19,828
Horse-power of engines ordinarily in use h.p.	17,905	28,427	29,514	30,055	33,389	42,082

(a) Not available for publication ; figures are included in the total for Australia.

(ii) *Coal Used and Production.* The following table shows details for 1955-56 :—

GAS-WORKS : COAL USED AND PRODUCTION, 1955-56.

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Aust.
Coal used '000 tons	947	657	200	(a)	56	(a)	2,031
Gas produced million cubic ft. ..	21,984	14,468	3,053	(a)	1,471	(a)	44,578
Gas sold	18,841	12,394	2,676	(a)	1,270	(a)	38,361
Coke produced (b) '000 tons ..	482	344	84	(a)	22	(a)	1,031

(a) Not available for publication ; figures are included in the total for Australia. (b) In addition, 2,058,426 tons of metallurgical coke were made in Coke Works in 1955-56.

Since 1938-39, when the output of gas was 21 thousand million cubic feet, production has increased each year and reached nearly 47 thousand million cubic feet in 1956-57.